FILED WITH
Executive Secretary
December 30, 2015
IOWA UTILITIES BOARD
EEP-2009-0002

Dec. 31, 2015

Executive Secretary
Iowa Utilities Board
1375 East Court Ave.
Room 69
Des Moines, IA 50319-0069

Subject: Electric Cooperatives' Joint Report Pursuant to SF 2386

Dear Executive Secretary:

The Iowa Association of Electric Cooperatives ("IAEC") is submitting this Electric Cooperatives' Joint Report Pursuant to SF 2386 on energy efficiency.

In 2008, the Iowa Legislature passed Senate File 2386, which, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not subject to rate regulation by the Iowa Utilities Board ("Board").

This Senate File required the commencement of assessment of potentials to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board." The IAEC filed a Joint Progress Report on Dec. 31, 2008, with the Board.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on Dec. 31, 2009, and included an executive summary, as well as each participating electric cooperative's cost-effective energy-efficiency goals, and for each measure intended to be utilized by the cooperative in meeting its goals, the measure's description, projected costs and the analysis of the measure's cost-effectiveness.

SF 2386 also requires gas and electric utilities that are not required to be rate regulated by the Iowa Utilities Board to file a report with the Board identifying their progress in meeting the energy efficiency goals and any updates or amendments to their energy efficiency plans and goals. These reports are due on January 1 of each even numbered year and begin on January 1, 2012. This report is the second of such reports required.

This filing is being made as the Electric Cooperatives' Joint Report on the progress toward the goals set forth by the cooperatives in the Dec 21, 2009, filing. This Electric Cooperatives' Joint Report

constitutes the compilation of the individual electric cooperative information, and includes the information for each individual electric cooperative. While the IAEC facilitated the compilation of this information, the goals were set by the governing bodies of each participating cooperative.

If you have any questions regarding this final report please contact me at 515.727.8949.

Respectfully,

/s/ Reginald Goodale

Reginald Goodale
Director of Regulatory Affairs
515.727.8949
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Executive Secretary

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IOWA UTILITIES BOARD

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Iowa Association of Electric Cooperatives

Electric Cooperatives' Joint Report

Pursuant to Senate File 2386 and Iowa Code 476.6, subsection 15 c. (4)

December 31, 2015

Iowa Association of Electric Cooperatives

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	Executive Summary
1.	List of Electric Cooperatives Participating in this Joint IAEC Filing
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Executive Summary

Overview

Electric cooperatives across Iowa have established a robust set of cost-effective, energy–efficient programs that have been and will be available for their member-consumers to participate in during the five-year period of 2010-2014. These programs have been developed with detailed studies and market surveys by independent, third-party professional energy efficiency consultants.

The program offerings and the goals have taken into consideration each utility's service area, customer base, and other relevant factors. As such, the program offerings and goals vary among utilities. It is also important to note that the electric markets served by the Iowa rural electric cooperatives are different than markets served by other electric utilities. The markets also are different from cooperative to cooperative. Some of the key differences include:

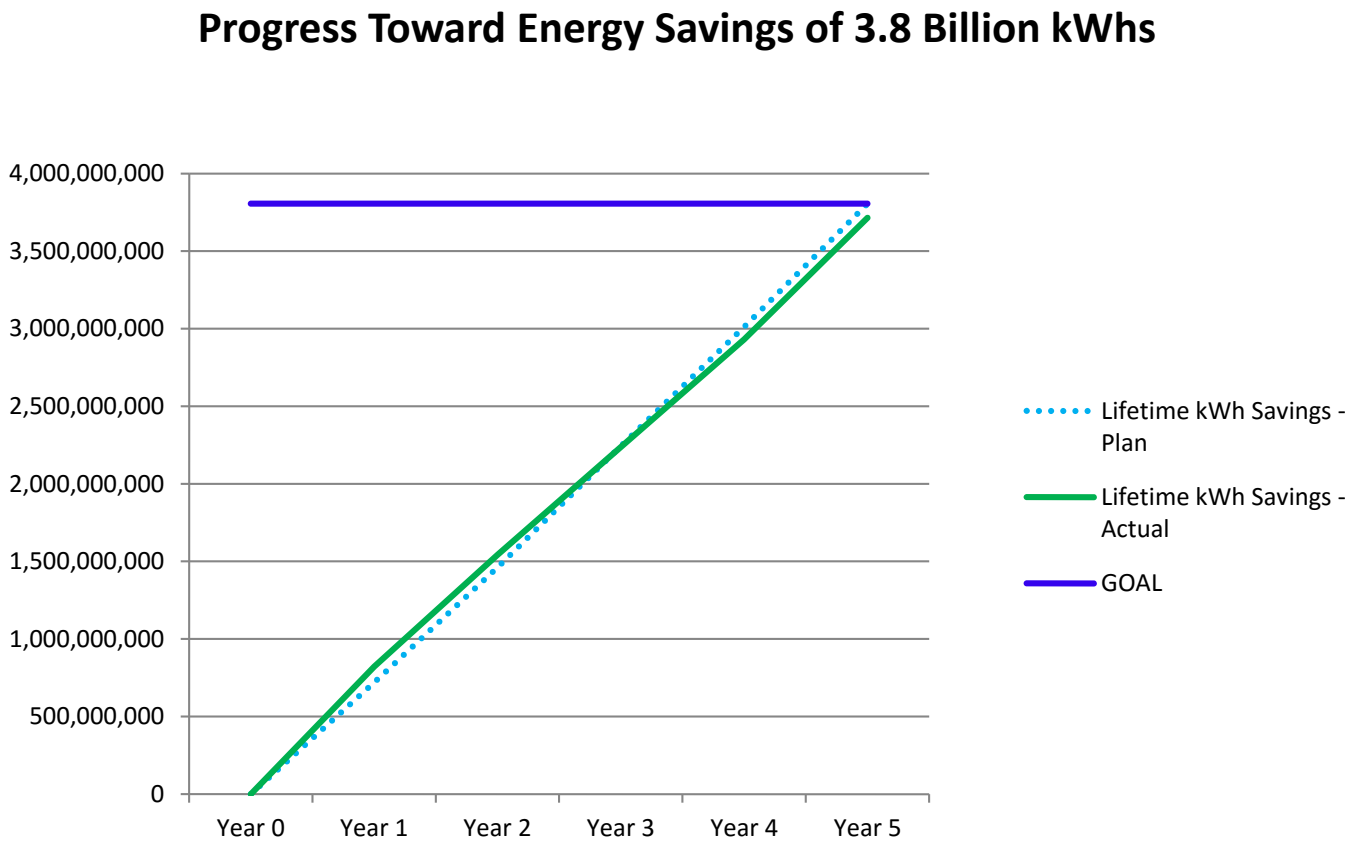
- higher percentage of residential customers served,
- significantly newer commercial and industrial member-consumers
- lack of penetration of natural gas as the primary home heating fuel in rural areas
- very few members per mile of power line

These differences present their own set of unique challenges relative to energy efficiency.

Electric cooperatives in Iowa, over the past three decades, have demonstrated and documented their commitment to energy efficiency with various energy efficiency filings made with the Iowa Utilities Board and the Attorney General's Office of Consumer Advocate.

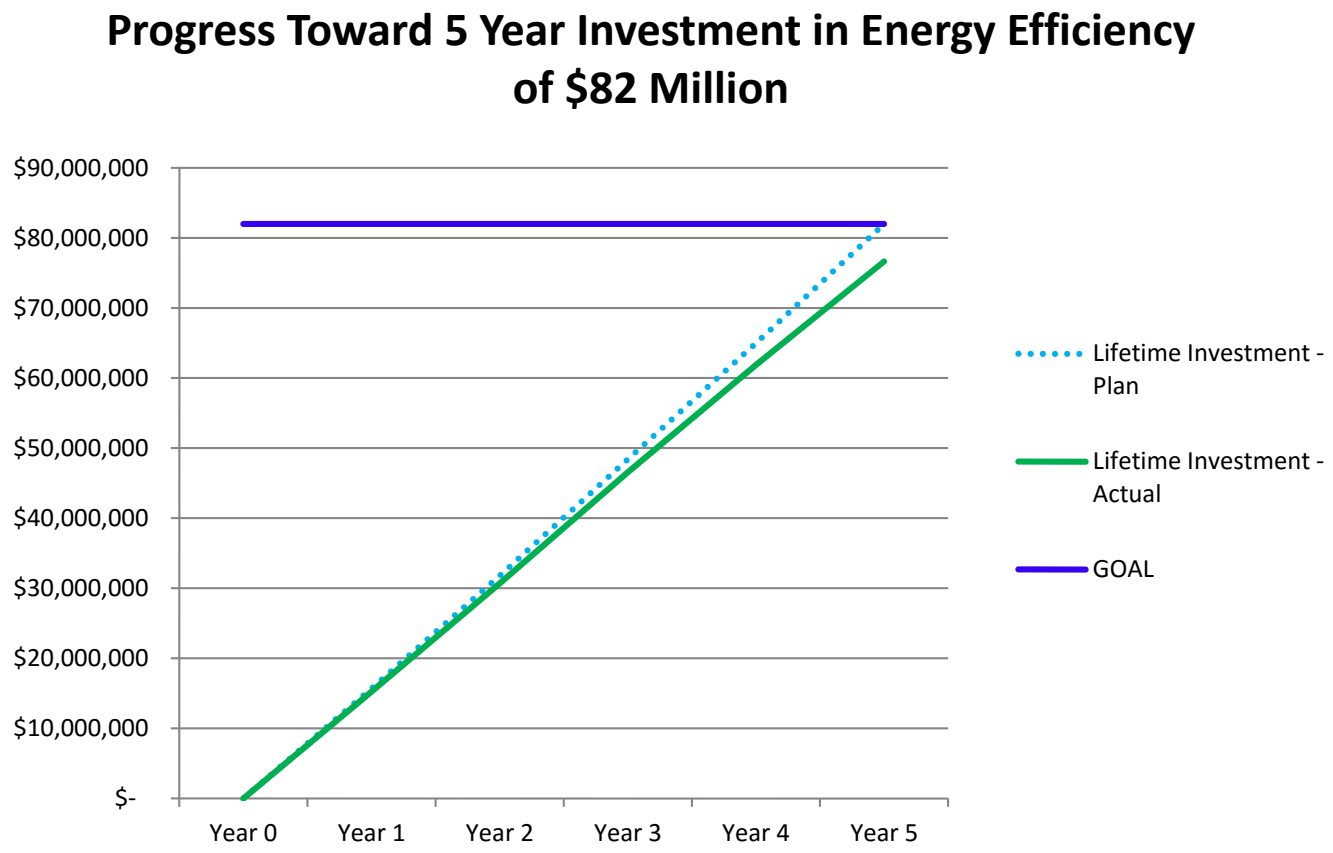
This progress report is reporting results through the calendar year 2014, which is the fifth and final year of the five year plan (2010-2014).

The following chart illustrates the progress toward the energy savings five-year goals for the electric cooperatives as a group:



The above chart illustrates that the electric cooperatives nearly met their target of achieving the 3.8 billion kWh goals of energy savings that are expected to be realized over the lives of the measures installed during the five year plan period. The electric cooperatives ended the five-year plan with 3.7 billion kWh of energy savings over the lives of the measures installed.

The following chart illustrates the progress toward the five-year goals associated with investments in energy efficiency for the electric cooperatives as a group:



The investment in energy efficiency was projected to be $82 million over the five-year plan and the actual dollars invested was $76.7 million, which is approximately 94% of the budgeted goal.

The following table shows the progress toward the five-year energy savings goals and the five-year investment in energy efficiency goals for each cooperative that is participating in this joint filing.

	Progress Toward Energy Savings		Progress Toward 5 Year Investment in Energy Efficiency	
Cooperative	**Cumulative Measure Lifetime kWh Savings - Plan (2010-2014)**	**Cumulative Measure Lifetime kWh Savings - Plan to Date Actual (2010-2014)**	**Energy Efficiency Investment - Plan (2010-2014)**	**Energy Efficiency Investment - Plan to Date Actual (2010-2014)**
Access Energy Cooperative	102,736,200	133,222,449	$ 2,973,583	$ 3,140,216
Allamakee Clayton Elec. Coop., Inc.	75,588,304	82,780,220	$ 1,503,660	$ 1,502,693
Atchison Holt Electric Coop.	20,307,425	1,822,970	$ 438,861	$ 46,544
Boone Valley Electric Coop.	1,621,197	159,256	$ 12,945	$ 9,123
Butler County Rural Elec. Coop.	92,870,169	108,495,422	$ 1,202,662	$ 1,641,913
Calhoun County Electric Coop. Assn.	32,049,109	25,389,421	$ 456,893	$ 300,559
Chariton Valley Electric Cooperative, Inc.	53,796,253	33,269,625	$ 1,345,401	$ 643,356
Clarke Electric Cooperative, Inc.	101,597,726	71,527,509	$ 1,229,116	$ 754,473
Consumers Energy Cooperative	89,715,507	86,199,871	$ 1,573,823	$ 1,299,317
East-Central Iowa Rural Electric Coop.	192,945,133	186,545,635	$ 2,272,722	$ 1,997,499
Eastern Iowa Light & Power Cooperative	352,520,132	292,898,433	$ 13,196,479	$ 10,800,314
Farmers Electric Coop., Inc. - Greenfield	94,215,549	70,045,830	$ 1,146,538	$ 969,098
Franklin Rural Electric Cooperative	40,765,833	49,308,631	$ 548,443	$ 656,602
Grundy County Rural Electric Cooperative	55,642,021	33,964,232	$ 546,187	$ 615,495
Grundy Electric Cooperative, Inc.	843,217	146,097	$ 19,459	$ 8,524
Guthrie Co. Rural Electric Cooperative Assn.	109,533,344	68,743,606	$ 1,242,843	$ 754,584
Harrison County Rural Electric Cooperative	104,081,678	56,655,278	$ 2,577,572	$ 2,418,526
Hawkeye REC	77,891,032	97,644,493	$ 3,075,408	$ 3,018,317
Heartland Power Cooperative	85,736,003	152,077,249	$ 3,090,382	$ 2,461,280
Humboldt County Rural Electric Cooperative	22,720,653	22,183,612	$ 296,043	$ 250,494
Iowa Lakes Electric Cooperative	207,468,810	194,881,434	$ 2,668,102	$ 3,316,805
Linn County Rural Electric Coop. Assn.	509,407,996	453,265,380	$ 7,696,258	$ 6,245,279
Lyon Rural Electric Cooperative	64,907,377	58,736,978	$ 1,189,570	$ 738,802
Midland Power Cooperative	200,377,224	281,521,920	$ 3,892,996	$ 2,720,326
Nishnabotna Valley Rural Electric Coop.	111,550,247	76,622,679	$ 3,516,500	$ 3,651,557
North West Rural Electric Cooperative	276,091,401	375,294,281	$ 10,544,963	$ 13,182,333
Osceola Electric Cooperative, Inc.	21,308,307	14,454,256	$ 458,082	$ 316,323
Pella Cooperative Electric Association	50,921,345	40,405,842	$ 766,662	$ 598,581
Prairie Energy Cooperative	86,079,128	97,796,721	$ 1,502,895	$ 2,200,656
Raccoon Valley Electric Cooperative	59,182,896	123,022,817	$ 786,629	$ 697,915
Southern Iowa Electric Cooperative, Inc.	35,477,735	36,997,618	$ 1,031,423	$ 794,494
Southwest Iowa Rural Electric Cooperative	116,966,098	85,320,997	$ 1,666,489	$ 1,009,792
T. I. P. Rural Electric Cooperative	95,503,675	101,884,177	$ 1,700,532	$ 1,975,379
Tri-County Electric Cooperative	647,470	269,148	$ 6,101	$ 26,189
United Electric Cooperative, Inc.	10,321,775	5,529,795	$ 195,105	$ 37,889
Western Iowa Power Cooperative	159,873,054	125,050,801	$ 3,282,707	$ 3,721,813
Woodbury County Rural Electric Cooperative	93,086,608	71,735,149	$ 2,331,526	$ 2,135,209
TOTAL	**3,806,347,630**	**3,715,869,836**	**$ 81,985,561**	**$ 76,658,266**

Effective 1/1/2013, Humboldt County REC merged with Midland Power Cooperative. The results showing above for Humboldt County REC reflect the plans and savings from 2010-2012.

Summary

The Iowa RECs, as a group, exceeded their annual incremental kWh savings goal and came very close to exceeding their goal for lifetime kWh savings. Additionally, this was accomplished under budget amount by approximately 6%.

The energy savings for measures installed during this five-year plan are estimated to result in energy savings over their lives to power approximately 347,000 homes in Iowa for one year.

The Iowa electric cooperatives as a group worked extremely hard to achieve the goals set forth in the 2010-2014 energy efficiency plan and will continue to work to help their members become more energy efficient as they move forward with their new plan spanning the years 2015-2019.

Section 1 List of RECs Participating in this Joint IAEC Filing

The following is a list of the electric cooperatives included in this filing:

	Cooperative
1	Access Energy Cooperative
2	Allamakee Clayton Elec. Coop., Inc.
3	Atchison Holt Electric Coop.
4	Boone Valley Electric Coop.
5	Butler County Rural Elec. Coop.
6	Calhoun County Electric Coop. Assn.
7	Chariton Valley Electric Cooperative, Inc.
8	Clarke Electric Cooperative, Inc.
9	Consumers Energy Cooperative
10	East-Central Iowa Rural Electric Coop.
11	Eastern Iowa Light & Power Cooperative
12	Farmers Electric Coop., Inc. - Greenfield
13	Franklin Rural Electric Cooperative
14	Grundy County Rural Electric Cooperative
15	Grundy Electric Cooperative, Inc.
16	Guthrie Co. Rural Electric Cooperative Assn.
17	Harrison County Rural Electric Cooperative
18	Hawkeye REC
19	Heartland Power Cooperative
20	Iowa Lakes Electric Cooperative
21	Linn County Rural Electric Coop. Assn.
22	Lyon Rural Electric Cooperative
23	Midland Power Cooperative
24	Nishnabotna Valley Rural Electric Coop.
25	North West Rural Electric Cooperative
26	Osceola Electric Cooperative, Inc.
27	Pella Cooperative Electric Association
28	Pleasant Hill Community Line
29	Prairie Energy Cooperative
30	Raccoon Valley Electric Cooperative
31	Southern Iowa Electric Cooperative, Inc.
32	Southwest Iowa Rural Electric Cooperative
33	T. I. P. Rural Electric Cooperative
34	Tri-County Electric Cooperative
35	United Electric Cooperative, Inc.
36	Western Iowa Power Cooperative
37	Woodbury County Rural Electric Cooperative

Effective 1/1/2013, Humboldt County REC merged with Midland Power Cooperative.

Section 2 IAEC Tables Compiling All REC Data as a part of this filing.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Totals	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	4,942	$892,814	22,060,371	4,585,498	1,575,741	4,205	$722,862	18,345,281	4,104,930	1,310,380
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	1,422	$49,613	1,162,605	373,117	129,178	864	$66,578	687,289	253,812	76,364
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	4,495	$9,342,551	1,188,157,630	172,089,158	59,407,883	5,002	$9,934,545	1,320,148,061	205,945,805	66,537,235
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	4,789	$3,701,888	562,531,373	110,936,274	37,502,092	3,247	$2,419,823	373,586,952	78,219,430	24,905,794
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	736	$117,668	9,176,633	1,319,834	458,832	530	$94,167	11,787,612	1,762,599	589,380
Residential Contractor Rebates	Incentive for heat pump installs	3,957	$805,131				4,120	$1,115,132			
Residential Lighting (low income included											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	238,679	$561,325	113,788,670	43,196,175	15,587,489	737,554	$1,505,383	321,416,428	110,045,814	44,029,648
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	251,316	$816,126	119,629,831	50,662,961	16,387,649	368,102	$1,113,758	175,733,473	94,070,142	24,089,845
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.	2,798	$29,026	6,104,224	855,734	305,212	3,431	$23,128	7,533,785	582,583	376,690
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	6,726	$70,818	5,662,322	927,022	345,263	14,374	$185,922	13,629,062	1,617,839	831,042
ENERGY STAR LED lighting	Rebate for LED lighting.	3,878	$41,599	5,183,396	755,268	287,967	26,025	$282,918	34,656,641	3,171,927	1,925,369
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	989	$19,657	2,967,131	462,030	164,841	189	$4,771	566,153	79,707	31,451
CFL Recycling	Recycling of compact florescent light bulbs.	103	$1,583				4,563	$3,008			
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	5,784	$390,169	6,246,009	4,439,504	1,493,806	8,140	$485,957	14,124,367	6,439,951	2,996,591
LED Holiday Lighting	Rebate for holiday lighting.	6,008	$23,690	5,601,859	1,307,769	466,822	5,592	$25,111	5,209,805	1,790,601	434,153
Residential Water Heating (low income included											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	14,573	$3,283,255	60,814,860	12,168,168	4,054,323	11,483	$3,370,013	47,928,017	9,977,797	3,195,203
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	228	$88,479	4,377,643	1,251,474	437,764	15	$7,379	287,506	113,008	28,751
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	1,030	$592,841	23,695,774	4,891,734	1,974,647	844	$526,110	19,380,498	4,163,632	1,615,041
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	178	$78,337	3,971,267	795,784	330,939	3	$1,381	67,173	14,896	5,598
Drain Water Heat Recovery System	Rebate for drain water heat recovery system.	5	$1,575	117,216	11,722	3,907	2	$1,064	46,552	3,880	1,552
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	18,269	$378,529	60,834,810	20,093,199	6,759,423	7,087	$41,885	22,518,421	8,826,568	2,502,044
Flow Restrictors - Shower	Incentive for low-flow shower head.	12,501	$534,699	78,860,166	23,366,661	7,886,017	4,575	$75,940	28,873,888	10,189,474	2,887,394
Tank Insulation	Incentive for water heater tank insulation.	2,257	$64,604	3,853,128	1,138,147	385,313	746	$23,520	1,072,669	378,957	107,267
Pipe Insulation	Incentive for water pipe insulation.	4,617	$83,065	8,220,218	1,623,962	548,015	1,251	$34,038	2,226,108	561,156	148,408
Residential Appliances (low income included											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	7,927	$584,386	19,522,996	5,273,745	1,774,817	12,523	$932,807	30,502,651	8,979,472	2,772,971
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	7,157	$245,302	9,236,684	2,412,528	839,698	6,515	$299,740	8,405,309	2,451,181	764,116
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	10,149	$331,842	15,985,309	3,056,047	1,065,688	13,129	$542,792	20,666,118	4,357,249	1,377,739
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	2,819	$84,528	7,950,118	1,954,799	662,511	1,462	$53,276	4,125,131	1,097,085	343,760
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	5,858	$186,857	6,517,894	1,213,117	434,527	2,283	$87,622	2,536,305	513,598	169,084
Appliance Recycling	Incentives for appliance recycling.	13,066	$924,794	126,863,352	42,913,895	14,116,194	7,885	$617,091	67,018,785	24,128,057	7,490,074
Efficient Television	Rebate for efficient television.	1,759	$91,283	3,491,246	837,098	290,937	1,967	$113,488	3,900,110	875,014	325,010
Smart Strip	Incentive for smart power supply strip.	1,020	$6,375	1,132,200	394,494	113,220	6	$30	6,660	2,775	666
Efficient Home Incentives (low income included											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	793	$538,014	26,245,266	2,520,715	873,732	232	$194,860	6,804,557	685,512	233,724
Advanced Lighting Package		318	$82,281	2,733,957	365,822	136,698	16	$3,710	137,543	28,367	6,877
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	5,063	$190,361	51,447,970	18,169,738	5,716,441	8,069	$245,243	76,802,565	25,894,328	8,533,619
Weatherization Rebates	Rebates for various insulation measures.	494	$268,190	14,984,716	1,500,472	505,693	109	$58,337	4,491,180	459,689	150,431
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	8,757	$4,022,133	269,160,096	26,855,808	9,245,894	2,876	$1,267,080	104,888,034	10,471,309	3,542,306
Residential Total		**655,460**	**$29,525,390**	**2,848,288,939**	**564,719,473**	**192,269,169**	**1,269,016**	**$26,480,470**	**2,750,110,686**	**622,258,141**	**204,335,577**
Percentage of 5 year plan goal - Residential								**90%**	**97%**		**106%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Totals	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	31,574	$74,815	17,671,398	13,924,950	4,893,608	48,192	$108,585	25,042,389	15,261,963	6,938,720
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	112,787	$1,597,769	136,898,902	78,047,182	26,469,821	165,252	$2,837,195	301,300,645	136,253,790	46,607,473
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	3,224	$119,180	4,389,531	2,866,986	971,938	1,825	$132,638	4,878,620	1,060,688	621,160
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	771	$48,395	1,151,886	225,457	76,792	4,595	$154,571	13,282,495	1,938,140	887,074
Air Cooled Chillers	Rebate for water cooled chillers.	272	$7,058	839,470	123,606	41,973	455	$6,968	2,269,598	437,644	113,480
Water Cooled Chillers	Rebate for air cooled chillers.	22	$225	117,216	18,648	5,861	3	$409	15,870	3,968	794
Geothermal Heat Pump	Rebate for geothermal heat pump.	1,704	$882,293	83,589,640	14,868,338	4,179,482	2,110	$764,632	95,176,387	17,373,136	5,015,529
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	278	$127,006	9,654,844	1,949,819	643,656	451	$84,143	18,375,376	9,377,620	3,237,465
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	652	$148,332	25,126,979	3,539,355	1,256,349	101	$45,753	5,673,539	1,578,553	373,544
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	1,652	$64,524				23	$25,979			
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	506	$136,723	4,323,522	848,426	288,235	292	$80,611	1,706,956	385,056	113,798
Heat Pump Water Heater	Rebate for heat pump water heater.	5	$1,875	115,551	28,888	9,629	4	$1,222	92,441	17,333	7,704
Solar Water Heaters	Rebate for solar water heater.							$22			
Ag/Commercial & Industrial Appliances											
Commercial ENERGY STAR Refrigerators and Freezers	Rebates for ENERGY STAR refrigerators & freezers.	123	$14,149	552,235	130,901	46,020	12	$3,150	92,270	18,472	6,367
Ag/Commercial & Industrial Insulation											
Building Envelope	Rebates for insulation.	44	$66,541	4,041,523	506,762	169,416	111	$86,288	27,552,866	3,087,904	1,102,113
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	2,750	$987,506	29,389,869	5,868,048	1,959,325	2,039	$252,165	37,140,116	7,447,558	2,478,858
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	1,086	$432,205	402,401,643	79,853,792	26,826,776	2,203	$662,606	237,178,361	32,357,732	16,045,418
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	64	$72,866	9,399,919	1,840,896	626,661	30	$18,660	4,412,036	794,078	294,136
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	39	$18,765	6,460,261	1,203,545	430,684	4	$4,523	663,803	154,886	44,253
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	1,556	$158,530	9,342,843	2,244,640	778,570	614	$55,488	6,546,887	1,530,960	541,366
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	130	$4,208	352,646	84,547	29,387	1	$1,803	2,711	1,130	226
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	973	$226,920	14,222,392	3,413,541	1,010,374	263	$18,908	3,213,206	610,234	269,958
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	68	$30,200	3,756,685	762,409	250,446	47	$10,812	2,601,979	535,161	173,466
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	624	$40,518	5,918,582	1,427,525	493,215	299	$20,086	2,840,451	604,049	236,703
Premium Motors Rebate Program - Dairy Vacuum Pump	Rebate for premium motors for dairy vacuum pumps.	10	$625	96,104	16,017	5,339		$462			
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	68	$84,175	15,032,571	2,666,333	884,269	10	$4,582	2,220,433	600,824	130,614
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	1,976	$7,663	1,316,463	941,068	329,116	824	$4,051	550,706	511,315	137,677
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	592	$16,026	1,183,825	378,939	118,382		$242			
Hog Farrowing - Double Crate Heating Pads(<=170W)	Rebate for double crate heating pads.	90	$5,645	361,638	108,491	36,164		$242			
Hog Farrowing - Heat Lamp or Pad Controller	Rebate for controller for heat pad or lamp.	247	$3,778	1,921,903	440,876	117,189		$462			
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		453	$2,173,395	168,428,649	42,216,660	13,687,229	2,257	$510,872	172,929,009	53,043,095	13,111,730
Ag, Commercial and Industrial Total		**164,340**	**$7,551,910**	**958,058,691**	**260,546,645**	**86,635,907**	**232,018**	**$5,898,129**	**965,759,150**	**284,985,291**	**98,489,624**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**78%**	**101%**		**114%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	130,450	$8,373,083				128,854	$11,201,304			
Water Heater Storage	Water heater storage.	1,867	$136,759				3,092	$127,060			
Air Conditioning Load Control	Load control for air conditioning	48,429	$4,063,881				47,797	$6,489,142			
Space Heating Load Control (Interruptible)	Load control for space heating.	58,980	$6,397,021				21,867	$1,483,853			
Residential Time-of-Day Price	Residential time of day price.	1,771	$89,500				2,839	$407,921			
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	Dual fuel for space heating and air conditioning.	295	$20,006				3,935	$959,933			
Dual-Fuel Space Heating	Duel fuel space heating	14,390	$2,996,109				5,784	$1,143,091			
Crop Drying											
Off Peak Pricing	Crop drying off peak pricing.	70	$13,844				61	$7,129			
Load Control	Crop drying load control.	245	$12,926				535	$63,963			
Irrigation											
Time of Use Pricing	Irrigation time of use prices.	40	$9,054				292	$61,888			
Load Control	Irrigation load control.	2,848	$240,468				2,790	$354,237			
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price	170	$65,378				339	$261,109			
Industrial Interruptible Price	Industrial Interruptible Price	361	$10,223,509				823	$10,257,609			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	1,845	$774,136				356	$432,012			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	887	$673,690				208	$741,936			
Energy Audit Services - Residential *	Energy Audit Services - Residential	9,031	$2,204,998				2,633	$700,063			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	15,250	$311,723				65,788	$233,739			
Domestic Water Heater Enhancement	Domestic Water Heater Enhancement	41,855	$60,265					$1,575			
Member Information and Education	Member Information and Education	1,784,006	$4,325,241				1,607,362	$5,415,472			
Peak Alert	Peak Alert	525,461	$66,629				158,699	$117,948			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	435,623	$1,260,711				284,640	$912,657			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	660,592	$2,589,329				811,312	$2,906,029			
TOTAL		**4,554,266**	**$81,985,561**	**3,806,347,630**	**825,266,118**	**278,905,076**	**4,651,040**	**$76,658,266**	**3,715,869,836**	**907,243,431**	**302,825,201**
Percentage of 5 year plan goal achieved								**94%**	**98%**		**109%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Totals	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included										
ENERGY STAR Central Air Conditioning	894	$164,504	4,003,432	285,959	285	1,010	$166,824	4,695,082	335,363	370
ENERGY STAR Qualified Room Air Conditioner	245	$8,304	201,585	22,398	22	162	$14,333	128,518	14,280	16
Geothermal Heat Pump	777	$1,661,331	205,434,067	10,271,703	656	1,077	$2,039,306	285,007,469	14,250,373	1,174
Air Source Heat Pump	898	$718,039	105,569,317	7,037,954	722	704	$523,439	82,730,738	5,515,383	598
Heat Recovery Ventilators	125	$20,173	1,557,080	77,854		76	$13,261	946,680	47,334	
Residential Contractor Rebates	693	$139,961				967	$217,731			
Residential Lighting (low income included										
Interior Lighting										
Change a Light Rebate Program (or similar program)	38,155	$90,801	18,194,995	2,492,465	2,289	69,344	$122,721	35,270,316	4,831,550	4,596
Local CFL Rebate Program(s)	53,800	$177,367	25,599,018	3,506,715	3,228	145,565	$426,395	69,405,953	9,507,665	9,668
ENERGY STAR CFL/LED Fixtures	411	$4,326	896,867	44,843	16					
T8 or better Lighting Fixtures	1,067	$12,165	800,487	48,810	14	468	$3,286	412,479	25,151	8
ENERGY STAR LED lighting	502	$5,167	671,112	37,284	20	222	$673	297,183	16,510	10
ENERGY STAR Ceiling Fan	153	$2,975	459,064	25,504	5					
CFL Recycling	11	$295				174	$534			
Exterior Lighting										
High Efficiency Exterior Lighting	1,125	$84,917	1,207,693	289,480	15	1,287	$62,475	1,520,945	345,669	14
LED Holiday Lighting	957	$3,851	892,307	74,359	239	2,767	$9,525	2,578,259	214,855	767
Residential Water Heating (low income included										
High Efficiency Water Heater	2,856	$644,737	12,029,062	801,937	107	2,735	$765,206	11,119,194	741,280	109
Heat Pump Water Heater - (Add-On)	42	$16,596	805,430	80,543	9	10	$5,096	191,488	19,149	2
Heat Pump Water Heater - (Integrated)	111	$64,413	2,552,403	212,700	23	56	$37,265	1,286,276	107,190	13
Solar Water Heaters (w/ Electric auxiliary tank)	15	$6,737	334,586	27,882	3	1	$440	22,284	1,857	0
Drain Water Heat Recovery System	1	$75	23,443	781	0					
Flow Restrictors - Faucet	3,590	$65,184	11,958,282	1,328,698	72	2,021	$9,682	6,723,537	747,060	45
Flow Restrictors - Shower	2,482	$88,436	15,663,943	1,566,394	124	1,435	$12,443	9,047,004	904,700	79
Tank Insulation	413	$9,837	704,936	70,494	4	171	$5,596	292,283	29,228	2
Pipe Insulation	889	$15,370	1,582,708	105,514	18	638	$1,196	1,135,374	75,692	14
Residential Appliances (low income included										
ENERGY STAR Qualified Clothes Washer	1,544	$119,666	3,755,741	341,431	124	3,070	$225,684	7,092,202	644,746	258
ENERGY STAR Qualified Dishwasher	1,260	$46,741	1,626,042	147,822	113	1,493	$72,519	1,926,453	175,132	149
ENERGY STAR Qualified Refrigerator	1,757	$60,901	2,766,538	184,436	18	2,915	$145,833	4,590,639	306,043	32
ENERGY STAR Qualified Dehumidifier	539	$16,685	1,520,304	126,692	11	378	$15,240	1,066,328	88,861	8
ENERGY STAR Qualified Freezer	933	$29,518	1,037,545	69,170	9	453	$18,755	503,613	33,574	5
Appliance Recycling	2,637	$186,078	25,754,010	2,865,301	476	1,838	$122,384	14,932,334	1,670,376	382
Efficient Television	307	$16,151	609,092	50,758	12	181	$11,852	359,064	29,922	8
Smart Strip	451	$2,819	500,610	50,061		2	$10	2,220	222	
Efficient Home Incentives (low income included										
Energy Efficient Home Construction Rebates *	138	$94,127	4,566,960	152,232	25	39	$62,845	1,289,931	42,998	8
Advanced Lighting Package	41	$10,676	352,513	17,626	9	7	$1,460	60,175	3,009	2
Additional Low Income										
Energy Efficiency Kits	1,142	$43,371	11,600,591	1,288,955	148	1,459	$48,848	14,831,881	1,647,987	210
Weatherization Rebates	98	$51,174	2,823,474	95,391	16		$784			
Building Shell - Existing Home Only										
Weatherization Rebates	1,511	$736,059	46,964,030	1,611,731	145	467	$210,843	17,824,818	606,681	56
Residential Total	**122,570**	**$5,419,528**	**515,019,268**	**35,411,878**	**8,978**	**243,192**	**$5,374,485**	**577,290,719**	**42,979,838**	**18,605**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Totals	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	5,395	$12,730	3,035,118	840,060	324	515	$411	283,411	78,629	34
High Efficiency Interior Lighting	18,636	$224,946	22,295,350	4,513,422	66	31,056	$329,369	44,569,944	8,022,993	622
Exterior Lighting										
High Efficiency Exterior Lighting	615	$21,893	831,220	184,860	7	169	$14,313	188,826	38,536	2
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	143	$8,833	213,848	14,257	9	291	$9,055	428,013	28,534	19
Air Cooled Chillers	51	$1,341	157,402	7,870	4	315	$3,350	972,052	48,603	24
Water Cooled Chillers	2	$75	10,656	533	1	3	$387	15,870	794	0
Geothermal Heat Pump	784	$278,086	35,650,382	1,782,519	234	958	$227,155	40,354,613	2,017,731	129
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	63	$27,326	2,104,720	140,315	36	38	$7,730	900,625	60,042	4
Heat Recovery Ventilators	107	$25,342	4,122,648	206,132	62	64	$13,748	2,465,883	123,294	41
Commercial Contractor Rebate (GS & AS)	780	$19,546				3	$2,442			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	99	$25,554	792,540	52,836	8	14	$3,131	63,054	4,204	1
Heat Pump Water Heater	1	$375	23,110	1,926	0					
Solar Water Heaters										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	18	$2,157	80,810	6,734	1	2	$1,880	3,596	300	0
Ag/Commercial & Industrial Insulation										
Building Envelope	8	$13,257	798,797	33,289	3	10	$2,780	2,482,238	99,290	9
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	547	$196,581	5,846,058	389,737	49	83	$8,650	885,538	59,036	8
Variable Speed Drive Motor Incentive	210	$76,341	77,794,424	5,186,295	439	34	$52,809	19,776,437	1,318,429	114
Agricultural										
Dairy Pre-coolers Incentive	12	$15,508	1,763,139	117,543	58		$1,905			
Dairy Heat Reclaimer	7	$3,480	1,159,292	77,286	38		$1,905			
Livestock Ventilation Fans	278	$28,587	1,649,746	137,479	37	90	$5,632	461,839	38,487	13
Ventilation Thermostat Controller	22	$721	59,685	4,974	1	1	$508	2,711	226	0
Circulating Fans --- BESS Lab Ratings	177	$65,175	3,962,587	275,271	62	14	$963	55,111	4,593	2
Scroll compressor (milk cooling)	14	$6,833	773,481	51,565	6	14	$6,477	775,058	51,671	7
Efficient Livestock Waterers	109	$7,118	1,033,980	86,165		41	$2,819	390,683	32,557	
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0		$440			
Variable Speed Drive Motor - Dairy Vacuum Pump	13	$19,090	2,875,501	169,147	14	8	$2,830	1,776,346	104,491	10
Hog Farrowing - Heat Lamps (<= 175W)	329	$1,291	219,210	54,803		460	$1,449	308,402	77,101	
Hog Farrowing - Single Crate Heating Pads (<=85W)	175	$2,650	350,692	35,069			$220			
Hog Farrowing - Double Crate Heating Pads(<=170W)	18	$1,129	72,328	7,233			$220			
Hog Farrowing - Heat Lamp or Pad Controller	75	$796	583,794	35,597			$440			
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	88	$464,509	36,548,465	2,937,219	431	33	$237,745	127,479,233	8,500,251	888
Ag, Commercial and Industrial Total	**28,778**	**$1,551,395**	**204,828,200**	**17,351,202**	**1,888**	**34,216**	**$940,762**	**244,639,483**	**20,709,787**	**1,925**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	24,966	$1,641,797			12,704	24,153	$1,592,698			13,405
Water Heater Storage	360	$26,664			360	294	$24,146			326
Air Conditioning Load Control	8,720	$765,408			6,104	8,680	$811,971			6,744
Space Heating Load Control (Interruptible)	10,840	$1,221,300			48,997	10,429	$1,222,183			52,093
Residential Time-of-Day Price	400	$15,100				574	$53,737			258
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	59	$3,689			354	59	$4,660			393
Dual-Fuel Space Heating	2,878	$586,108			17,268	2,704	$658,688			18,009
Crop Drying										
Off Peak Pricing	14	$2,769			28	10				22
Load Control	47	$2,442			94	118	$11,746			262
Irrigation										
Time of Use Pricing	8	$1,729			53	27	$5,431			197
Load Control	549	$45,299			3,623	568	$45,209			4,044
Commercial and Industrial Time-of-Day Price	33	$12,474				82	$26,409			195
Industrial Interruptible Price	62	$1,890,179			23,425	151	$1,750,880			20,875
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	472	$239,607				115	$100,552			
Expert Energy Services - C&I	177	$139,911				70	$260,451			
Energy Audit Services - Residential *	1,757	$419,429				648	$167,428			
IV. Educational & Research Programs										
Model Housing Education	3,010	$62,092				14,424	$60,610			
Domestic Water Heater Enhancement	9,626	$12,000								
Member Information and Education	357,646	$907,485				154,694	$1,406,816			
Peak Alert	111,449	$11,001				49,982	$7,821			
Living with Energy in Iowa	82,822	$227,038				57,896	$189,349			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	127,853	$493,022				161,109	$538,504			
TOTAL	**895,096**	**$15,697,464**	**719,847,468**	**52,763,079**	**123,877**	**764,195**	**$15,254,533**	**821,930,203**	**63,689,625**	**137,353**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicabl

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Totals	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included										
ENERGY STAR Central Air Conditioning	940	$171,478	4,214,470	301,034	300	833	$144,560	3,604,418	257,459	284
ENERGY STAR Qualified Room Air Conditioner	275	$9,782	226,334	25,148	25	247	$26,117	193,323	21,482	23
Geothermal Heat Pump	869	$1,840,543	229,723,647	11,486,182	713	1,105	$2,184,616	291,148,006	15,087,230	1,220
Air Source Heat Pump	946	$748,586	111,206,848	7,413,790	756	757	$574,347	86,891,432	5,792,760	618
Heat Recovery Ventilators	141	$22,647	1,756,611	87,831		98	$16,403	1,220,000	61,000	
Residential Contractor Rebates	786	$158,587				915	$199,666			
Residential Lighting (low income included										
Interior Lighting										
Change a Light Rebate Program (or similar program)	40,997	$96,765	19,557,416	2,679,098	2,460	57,753	$142,140	27,806,813	3,809,151	2,310
Local CFL Rebate Program(s)	52,896	$193,375	25,176,265	3,448,803	3,174	113,811	$408,161	54,426,268	7,472,420	7,559
ENERGY STAR CFL/LED Fixtures	518	$5,415	1,130,358	56,518	21	161	$1,503	352,767	17,639	6
T8 or better Lighting Fixtures	1,228	$13,714	936,024	57,075	17	1,510	$26,824	1,446,133	88,181	35
ENERGY STAR LED lighting	619	$5,876	827,573	45,976	25	785	$18,509	1,045,920	58,107	33
ENERGY STAR Ceiling Fan	182	$3,484	546,020	30,334	5	63	$1,381	188,718	10,483	1
CFL Recycling	15	$200				897	$644			
Exterior Lighting										
High Efficiency Exterior Lighting	1,154	$86,077	1,236,786	295,960	15	1,368	$42,276	865,817	196,674	11
LED Holiday Lighting	1,084	$4,303	1,010,722	84,227	271	1,772	$9,533	1,649,949	137,495	491
Residential Water Heating (low income included										
High Efficiency Water Heater	2,909	$648,063	12,167,975	811,198	109	2,229	$660,097	9,223,129	614,877	89
Heat Pump Water Heater - (Add-On)	39	$15,225	748,614	74,861	8	1	$547	19,121	1,912	
Heat Pump Water Heater - (Integrated)	141	$81,615	3,242,913	270,243	30	150	$91,359	3,443,010	286,918	32
Solar Water Heaters (w/ Electric auxiliary tank)	24	$10,568	535,626	44,635	5		$45			
Drain Water Heat Recovery System	1	$375	23,443	781	0	1	$358	23,276	776	
Flow Restrictors - Faucet	3,503	$73,511	11,666,187	1,296,243	70	1,880	$10,269	6,073,185	674,797	39
Flow Restrictors - Shower	2,331	$103,425	14,706,269	1,470,627	117	1,192	$13,365	7,520,711	752,073	66
Tank Insulation	451	$12,999	769,954	76,995	5	218	$1,248	268,208	26,821	4
Pipe Insulation	898	$16,515	1,598,805	106,587	18	212	$2,886	377,689	25,179	4
Residential Appliances (low income included										
ENERGY STAR Qualified Clothes Washer	1,590	$121,841	3,867,923	351,629	127	2,972	$240,830	7,218,223	656,203	260
ENERGY STAR Qualified Dishwasher	1,334	$46,827	1,721,569	156,506	120	1,439	$74,851	1,857,006	168,816	142
ENERGY STAR Qualified Refrigerator	1,902	$62,039	2,995,193	199,680	19	2,832	$112,646	4,455,794	297,053	31
ENERGY STAR Qualified Dehumidifier	546	$16,711	1,540,124	128,344	11	334	$12,019	942,564	78,548	6
ENERGY STAR Qualified Freezer	1,045	$33,324	1,162,423	77,495	10	448	$18,587	497,677	33,177	2
Appliance Recycling	2,752	$195,718	26,968,533	3,000,384	498	1,863	$133,575	15,954,210	1,784,454	376
Efficient Television	327	$17,088	648,781	54,065	13	398	$22,578	787,560	65,630	17
Smart Strip	105	$656	116,550	11,655		3	$15	3,330	333	
Efficient Home Incentives (low income included										
Energy Efficient Home Construction Rebates *	150	$101,576	4,963,953	165,465	27	42	$26,363	1,289,227	42,975	6
Advanced Lighting Package	52	$13,583	447,073	22,354	11	4	$1,026	34,386	1,719	1
Additional Low Income										
Energy Efficiency Kits	1,139	$46,553	11,571,324	1,285,703	148	1,832	$43,561	18,625,222	2,069,470	264
Weatherization Rebates	100	$53,210	2,916,743	98,318	16	16	$9,592	764,228	25,655	2
Building Shell - Existing Home Only										
Weatherization Rebates	1,683	$794,247	51,420,422	1,763,646	161	732	$350,941	25,126,425	850,780	76
Residential Total	**125,672**	**$5,826,502**	**553,349,471**	**37,479,391**	**9,306**	**200,873**	**$5,623,438**	**575,343,744**	**41,468,248**	**14,009**
Percentage of 5 year plan goal - Residential										

Totals	Plan Year 2 (2011) Estimated Achievable Potential					Plan Year 2 (2011) Year to Date Results				
	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	5,725	$13,746	3,213,642	889,690	344	2,728	$5,877	1,568,862	418,392	67
High Efficiency Interior Lighting	24,618	$383,938	28,614,131	5,613,187	81	30,098	$562,473	81,190,538	11,662,383	555
Exterior Lighting										
High Efficiency Exterior Lighting	628	$22,694	852,371	189,176	7	130	$2,178	141,033	28,783	1
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	150	$9,153	224,179	14,945	10	99	$8,688	377,572	26,746	33
Air Cooled Chillers	53	$1,384	163,574	8,179	4		$22			
Water Cooled Chillers							$22			
Geothermal Heat Pump	215	$145,118	11,339,731	566,987	181	220	$235,145	10,850,169	792,415	65
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	52	$24,695	1,848,135	123,209	35	124	$18,765	1,798,616	176,611	11
Heat Recovery Ventilators	118	$27,765	4,546,471	227,324	68	24	$27,645	2,675,950	223,664	75
Commercial Contractor Rebate (GS & AS)	198	$10,305				6	$4,084			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	98	$26,840	861,954	57,464	9	161	$24,322	1,088,275	72,552	11
Heat Pump Water Heater	1	$375	23,110	1,926	0	1	$322	23,110	1,926	
Solar Water Heaters							$22			
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	22	$2,463	100,255	8,355	1	1	$324	1,785	149	
Ag/Commercial & Industrial Insulation										
Building Envelope	9	$13,451	810,682	34,032	3	24	$12,087	5,957,370	238,295	21
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	549	$197,231	5,867,361	391,157	49	38	$21,968	4,587,840	305,856	63
Variable Speed Drive Motor Incentive	217	$83,627	80,388,754	5,359,250	454	78	$94,500	19,741,213	1,398,210	126
Agricultural										
Dairy Pre-coolers Incentive	13	$16,282	1,909,195	127,280	62	9	$5,234	1,322,878	88,192	47
Dairy Heat Reclaimer	7	$3,467	1,159,292	77,286	38	2	$1,497	331,901	22,127	12
Livestock Ventilation Fans	289	$30,198	1,711,976	142,665	38	63	$7,887	441,476	36,790	13
Ventilation Thermostat Controller	24	$782	65,107	5,426	1		$897			
Circulating Fans --- BESS Lab Ratings	179	$49,874	3,074,850	216,277	50	85	$5,434	619,545	51,628	11
Scroll compressor (milk cooling)	14	$6,824	773,481	51,565	6	2	$845	110,722	7,382	
Efficient Livestock Waterers	117	$7,653	1,109,734	92,478		46	$2,772	438,095	36,507	
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0		$22			
Variable Speed Drive Motor - Dairy Vacuum Pump	14	$19,589	3,095,964	182,116	15		$371			
Hog Farrowing - Heat Lamps (<= 175W)	366	$1,428	243,849	60,962			$897			
Hog Farrowing - Single Crate Heating Pads (<=85W)	94	$3,036	187,826	18,783			$22			
Hog Farrowing - Double Crate Heating Pads(<=170W)	18	$1,129	72,328	7,233			$22			
Hog Farrowing - Heat Lamp or Pad Controller	74	$726	576,058	35,125			$22			
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	93	$467,418	34,827,589	2,838,467	445	2,084	$95,205	12,004,932	1,136,893	5
Ag, Commercial and Industrial Total	**33,957**	**$1,571,317**	**187,680,819**	**17,341,609**	**1,901**	**36,023**	**$1,139,571**	**145,271,882**	**16,725,501**	**1,116**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	25,421	$1,607,826			12,932	23,328	$2,007,965			11,217
Water Heater Storage	366	$26,994			366	689	$37,473			765
Air Conditioning Load Control	9,183	$788,391			6,428	9,558	$1,230,302			7,421
Space Heating Load Control (Interruptible)	11,306	$1,249,444			51,094	962	$73,604			4,805
Residential Time-of-Day Price	340	$17,350				567	$74,298			255
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	59	$3,838			354	519	$262,526			533
Dual-Fuel Space Heating	2,878	$592,471			17,268	1,114	$466,800			7,419
Crop Drying										
Off Peak Pricing	14	$2,769			28	9	$1,548			20
Load Control	48	$2,510			96	112	$12,301			248
Irrigation										
Time of Use Pricing	8	$1,769			53	157	$18,441			197
Load Control	560	$46,655			3,696	404	$44,664			2,945
Commercial and Industrial Time-of-Day Price	34	$12,978				79	$94,044			184
Industrial Interruptible Price	66	$1,956,774			23,676	150	$2,012,126			14,924
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	326	$128,924				51	$21,913			
Expert Energy Services - C&I	176	$137,697				18	$187,897			
Energy Audit Services - Residential *	1,746	$439,907				579	$146,696			
IV. Educational & Research Programs										
Model Housing Education	3,030	$62,212				14,373	$43,112			
Domestic Water Heater Enhancement	9,651	$12,025								
Member Information and Education	354,747	$813,218				366,209	$1,184,554			
Peak Alert	106,965	$11,239				23,703	$9,666			
Living with Energy in Iowa	88,320	$261,963				60,545	$194,631			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	129,301	$518,019				165,120	$546,564			
TOTAL	**904,174**	**$16,092,792**	**741,030,290**	**54,821,000**	**127,197**	**905,142**	**$15,434,133**	**720,615,625**	**58,193,749**	**66,058**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicabl

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Totals	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included										
ENERGY STAR Central Air Conditioning	988	$179,138	4,415,075	315,363	316	786	$133,712	3,149,760	224,985	249
ENERGY STAR Qualified Room Air Conditioner	284	$9,800	231,812	25,757	26	243	$15,599	196,080	21,784	23
Geothermal Heat Pump	937	$1,969,123	247,671,472	12,383,574	753	949	$1,846,511	249,763,013	12,488,153	997
Air Source Heat Pump	989	$780,720	116,253,624	7,750,242	784	647	$465,732	73,487,335	4,899,155	530
Heat Recovery Ventilators	151	$24,164	1,881,017	94,051		177	$34,289	7,392,274	369,613	9
Residential Contractor Rebates	843	$169,805				714	$178,914			
Residential Lighting (low income included										
Interior Lighting										
Change a Light Rebate Program (or similar program)	44,545	$104,380	21,255,344	2,911,691	2,673	181,217	$364,396	81,415,671	11,152,833	2,952
Local CFL Rebate Program(s)	52,611	$176,931	25,041,734	3,430,375	3,157	49,507	$114,806	23,603,998	3,233,424	3,289
ENERGY STAR CFL/LED Fixtures	615	$6,390	1,342,027	67,101	25	647	$3,283	1,420,334	71,017	28
T8 or better Lighting Fixtures	1,387	$15,512	1,070,926	65,300	19	2,441	$26,224	2,319,477	141,431	53
ENERGY STAR LED lighting	739	$6,714	988,060	54,892	30	2,619	$44,935	3,483,618	193,534	114
ENERGY STAR Ceiling Fan	203	$3,878	609,033	33,835	6	30	$947	89,866	4,992	
CFL Recycling	21	$295				914	$656			
Exterior Lighting										
High Efficiency Exterior Lighting	1,170	$86,606	1,257,243	300,309	15	1,514	$96,418	1,955,803	443,783	30
LED Holiday Lighting	1,212	$4,758	1,130,069	94,172	303	350	$2,580	326,339	27,198	96
Residential Water Heating (low income included										
High Efficiency Water Heater	3,037	$679,966	12,567,641	837,843	112	2,425	$672,392	10,419,223	694,615	98
Heat Pump Water Heater - (Add-On)	45	$17,428	864,165	86,417	9					
Heat Pump Water Heater - (Integrated)	204	$117,346	4,690,138	390,845	43	232	$145,590	5,326,202	443,849	52
Solar Water Heaters (w/ Electric auxiliary tank)	36	$15,807	803,359	66,947	8					
Drain Water Heat Recovery System	1	$375	23,443	781	0					
Flow Restrictors - Faucet	3,717	$80,502	12,376,718	1,375,191	74	1,492	$6,586	4,577,424	508,601	29
Flow Restrictors - Shower	2,533	$115,657	15,977,659	1,597,766	127	846	$8,894	5,343,861	534,389	45
Tank Insulation	473	$14,559	807,549	80,755	5	150	$2,819	230,963	23,096	2
Pipe Insulation	940	$17,261	1,673,617	111,574	19	106	$2,518	188,845	12,590	2
Residential Appliances (low income included										
ENERGY STAR Qualified Clothes Washer	1,607	$121,215	3,991,576	362,871	131	2,479	$189,850	6,250,867	568,262	218
ENERGY STAR Qualified Dishwasher	1,430	$48,713	1,845,707	167,792	129	1,377	$63,164	1,776,587	161,507	134
ENERGY STAR Qualified Refrigerator	2,028	$65,744	3,194,246	212,950	20	2,777	$114,281	4,366,887	291,124	30
ENERGY STAR Qualified Dehumidifier	564	$17,133	1,590,951	132,579	11	197	$8,261	555,811	46,316	3
ENERGY STAR Qualified Freezer	1,171	$37,788	1,302,903	86,860	12	521	$18,954	578,551	38,569	2
Appliance Recycling	2,615	$184,851	25,391,877	2,825,336	471	1,630	$135,152	14,074,550	1,571,727	328
Efficient Television	360	$18,693	714,260	59,522	14	477	$30,041	946,262	78,856	21
Smart Strip	130	$813	144,300	14,430		1	$5	1,110	111	
Efficient Home Incentives (low income included										
Energy Efficient Home Construction Rebates *	163	$110,422	5,394,483	178,706	29	53	$37,892	1,472,760	53,081	10
Advanced Lighting Package	68	$17,653	584,615	29,231	15	5	$1,224	42,982	2,149	1
Additional Low Income										
Energy Efficiency Kits	1,087	$43,516	11,044,587	1,227,176	141	1,306	$29,424	13,277,860	1,475,318	189
Weatherization Rebates	108	$58,160	3,207,027	108,178	18	85	$42,190	3,312,700	110,968	12
Building Shell - Existing Home Only										
Weatherization Rebates	1,909	$891,486	58,711,556	2,014,745	181	517	$196,592	19,116,364	640,874	54
Residential Total	**130,921**	**$6,213,300**	**590,049,815**	**39,495,155**	**9,674**	**259,431**	**$5,034,831**	**540,463,377**	**40,527,904**	**9,600**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Totals	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	5,988	$14,181	3,357,570	929,652	359	14,791	$29,795	8,065,170	2,240,325	324
High Efficiency Interior Lighting	24,888	$343,997	28,691,039	5,693,105	82	26,362	$656,017	47,155,728	7,176,332	538
Exterior Lighting										
High Efficiency Exterior Lighting	645	$23,405	878,105	194,428	7	90	$3,365	99,107	20,226	1
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	155	$9,668	231,556	15,437	10	1,462	$58,899	4,425,462	295,031	486
Air Cooled Chillers	55	$1,428	169,746	8,487	4	140	$3,596	1,297,546	64,877	7
Water Cooled Chillers	20	$150	106,560	5,328	6					
Geothermal Heat Pump	250	$162,597	12,704,088	635,204	185	231	$102,024	7,674,422	390,524	32
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	53	$24,579	1,868,613	124,574	35	126	$23,301	8,988,682	2,554,982	682
Heat Recovery Ventilators	129	$30,156	4,970,295	248,515	75	7	$2,952	285,118	14,256	5
Commercial Contractor Rebate (GS & AS)	241	$12,457				4	$7,657			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	101	$27,600	878,587	58,572	10	38	$17,961	169,414	11,295	1
Heat Pump Water Heater	1	$375	23,110	1,926	0					
Solar Water Heaters										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	28	$3,277	133,442	11,120	1	6	$583	67,646	4,540	1
Ag/Commercial & Industrial Insulation										
Building Envelope	9	$13,364	810,682	34,032	3	36	$25,531	8,936,085	357,442	32
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	550	$197,628	5,877,974	391,865	50	60	$157,858	27,146,940	1,812,646	1,500
Variable Speed Drive Motor Incentive	219	$89,984	81,129,233	5,408,616	458	305	$61,826	21,985,630	1,465,709	197
Agricultural										
Dairy Pre-coolers Incentive	13	$16,267	1,909,195	127,280	62	10	$6,021	1,471,028	98,069	53
Dairy Heat Reclaimer	7	$3,453	1,159,292	77,286	38	2	$1,121	331,902	22,126	12
Livestock Ventilation Fans	324	$34,062	1,944,420	162,035	44	169	$11,683	3,600,823	295,860	59
Ventilation Thermostat Controller	28	$907	75,952	6,329	1		$398			
Circulating Fans --- BESS Lab Ratings	203	$61,341	3,769,210	264,151	61	4	$1,736	353,587	29,466	1
Scroll compressor (milk cooling)	14	$6,816	773,481	51,565	6	8	$2,414	442,891	29,526	3
Efficient Livestock Waterers	130	$8,452	1,233,038	102,753		53	$5,845	504,925	42,077	
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	15	$20,081	3,316,427	195,084	16	2	$1,381	444,087	26,123	2
Hog Farrowing - Heat Lamps (<= 175W)	417	$1,619	277,808	69,452		76	$612	50,591	12,648	
Hog Farrowing - Single Crate Heating Pads (<=85W)	106	$3,410	211,778	21,178						
Hog Farrowing - Double Crate Heating Pads(<=170W)	18	$1,129	72,328	7,233						
Hog Farrowing - Heat Lamp or Pad Controller	74	$722	576,058	35,125						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	97	$472,923	35,409,063	2,887,696	464	51	$71,507	10,461,825	872,223	134
Ag, Commercial and Industrial Total	**34,780**	**$1,586,153**	**192,577,868**	**17,769,097**	**1,976**	**44,033**	**$1,254,083**	**153,958,609**	**17,836,303**	**4,070**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	26,051	$1,656,962			13,247	26,412	$2,360,773			11,022
Water Heater Storage	373	$27,337			373	707	$24,462			785
Air Conditioning Load Control	9,669	$812,064			6,768	9,400	$1,378,413			4,444
Space Heating Load Control (Interruptible)	11,784	$1,278,481			53,247	982	$55,566			4,905
Residential Time-of-Day Price	440	$26,850				575	$87,695			254
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	59	$3,994			354	756	$201,588			4,888
Dual-Fuel Space Heating	2,878	$599,025			17,268	959	$14,516			6,387
Crop Drying										
Off Peak Pricing	14	$2,769			28	14	$2,769			31
Load Control	49	$2,582			98	117	$15,686			93
Irrigation										
Time of Use Pricing	8	$1,810			53	28	$6,418			59
Load Control	569	$48,052			3,755	546	$66,336			3,495
Commercial and Industrial Time-of-Day Price	35	$13,566				83	$82,902			236
Industrial Interruptible Price	71	$1,941,764			22,999	147	$3,082,298			21,591
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	336	$131,678				62	$104,473			
Expert Energy Services - C&I	178	$139,848				23	$93,355			
Energy Audit Services - Residential *	1,826	$437,635				506	$152,650			
IV. Educational & Research Programs										
Model Housing Education	3,050	$62,338				14,475	$46,168			
Domestic Water Heater Enhancement	9,676	$12,050					$1,575			
Member Information and Education	356,680	$840,543				366,892	$1,028,461			
Peak Alert	107,303	$11,478				16,755	$7,089			
Living with Energy in Iowa	88,883	$263,425				60,634	$195,532			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	130,251	$523,617				166,220	$576,943			
TOTAL	**915,885**	**$16,637,321**	**782,627,683**	**57,264,252**	**129,840**	**969,757**	**$15,874,581**	**694,421,986**	**58,364,207**	**71,860**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicabl

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Totals	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included										
ENERGY STAR Central Air Conditioning	1,044	$186,476	4,649,317	332,094	333	745	$135,656	3,230,513	230,751	256
ENERGY STAR Qualified Room Air Conditioner	302	$10,674	246,480	27,386	27	140	$7,098	110,834	12,315	14
Geothermal Heat Pump	936	$1,900,112	247,375,332	12,368,767	791	920	$1,895,412	243,381,565	12,169,078	951
Air Source Heat Pump	964	$717,266	113,107,665	7,540,511	789	535	$414,132	61,132,735	4,075,516	432
Heat Recovery Ventilators	157	$24,999	1,959,839	97,992		99	$17,243	1,233,143	61,657	
Residential Contractor Rebates	799	$162,589				760	$249,034			
Residential Lighting (low income included										
Interior Lighting										
Change a Light Rebate Program (or similar program)	57,902	$136,357	27,580,491	3,778,149	3,547	227,976	$477,681	94,584,982	12,956,847	2,085
Local CFL Rebate Program(s)	46,628	$138,829	22,201,443	3,041,294	2,798	46,825	$112,809	22,378,371	3,065,530	3,117
ENERGY STAR CFL/LED Fixtures	618	$6,376	1,347,846	67,393	25	100	$1,695	218,841	10,942	4
T8 or better Lighting Fixtures	1,481	$14,293	1,388,980	84,694	28	2,851	$33,663	2,276,106	138,787	48
ENERGY STAR LED lighting	949	$11,320	1,268,121	70,451	38	8,370	$96,199	11,144,304	619,128	370
ENERGY STAR Ceiling Fan	219	$4,166	657,025	36,501	7	41	$1,144	122,816	6,823	1
CFL Recycling	25	$349				1,529	$700			
Exterior Lighting										
High Efficiency Exterior Lighting	1,151	$65,766	1,253,568	299,281	16	1,406	$92,392	2,569,342	583,094	11
LED Holiday Lighting	1,319	$5,154	1,229,836	102,486	330	388	$1,902	361,771	30,148	108
Residential Water Heating (low income included										
High Efficiency Water Heater	2,868	$651,635	11,952,226	796,815	106	2,072	$672,062	8,754,226	583,615	86
Heat Pump Water Heater - (Add-On)	49	$18,881	941,199	94,120	10	1	$396	19,259	1,926	0
Heat Pump Water Heater - (Integrated)	247	$142,037	5,686,427	473,868	52	194	$118,777	4,456,569	371,381	45
Solar Water Heaters (w/ Electric auxiliary tank)	46	$20,238	1,026,203	85,517	10	1	$396	22,444	1,870	0
Drain Water Heat Recovery System	1	$375	23,443	781	0					
Flow Restrictors - Faucet	3,730	$79,130	12,418,860	1,379,873	75	863	$9,002	2,652,229	294,692	17
Flow Restrictors - Shower	2,549	$112,612	16,076,549	1,607,655	127	567	$22,292	3,582,816	358,282	31
Tank Insulation	459	$13,590	783,641	78,364	5	207	$13,857	281,215	28,121	4
Pipe Insulation	935	$16,901	1,664,735	110,982	19	78	$14,443	138,961	9,264	2
Residential Appliances (low income included										
ENERGY STAR Qualified Clothes Washer	1,562	$108,871	3,878,332	352,575	128	2,313	$167,228	5,746,245	522,386	208
ENERGY STAR Qualified Dishwasher	1,504	$49,613	1,940,852	176,441	135	1,339	$59,492	1,727,810	157,074	133
ENERGY STAR Qualified Refrigerator	2,168	$69,772	3,415,173	227,678	21	2,685	$107,343	4,228,975	281,932	30
ENERGY STAR Qualified Dehumidifier	576	$16,266	1,623,957	135,330	11	296	$9,969	835,276	69,606	7
ENERGY STAR Qualified Freezer	1,290	$41,515	1,435,598	95,707	13	453	$17,616	503,208	33,547	5
Appliance Recycling	2,508	$176,655	24,122,023	2,684,673	452	1,518	$133,738	13,070,173	1,459,662	313
Efficient Television	374	$19,298	742,694	61,891	15	458	$26,017	908,571	75,714	20
Smart Strip	155	$969	172,050	17,205						
Efficient Home Incentives (low income included										
Energy Efficient Home Construction Rebates *	167	$113,551	5,527,446	184,248	30	46	$38,839	1,341,278	44,709	10
Advanced Lighting Package	77	$19,863	661,983	33,099	17					
Additional Low Income										
Energy Efficiency Kits	873	$31,184	8,874,165	986,018	113	1,813	$72,443	14,487,438	1,609,715	205
Weatherization Rebates	94	$52,924	3,018,735	101,903	15	6	$4,298	310,689	10,356	1
Building Shell - Existing Home Only										
Weatherization Rebates	1,757	$770,119	53,560,450	1,842,563	162	562	$230,854	19,761,758	668,191	62
Residential Total	**138,483**	**$5,910,724**	**583,812,684**	**39,374,309**	**10,246**	**308,157**	**$5,255,822**	**525,574,465**	**40,542,661**	**8,579**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Totals	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	7,406	$17,645	4,124,728	1,142,729	444	16,185	$45,041	8,182,438	2,272,899	125
High Efficiency Interior Lighting	22,042	$322,478	28,803,610	5,297,906	77	37,774	$673,888	52,946,404	8,214,533	1,003
Exterior Lighting										
High Efficiency Exterior Lighting	660	$24,915	901,608	199,225	7	561	$42,727	1,077,989	158,583	4
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	160	$10,218	238,934	15,929	10	1,384	$53,939	3,999,438	266,629	428
Air Cooled Chillers	56	$1,444	172,831	8,642	4					
Water Cooled Chillers										
Geothermal Heat Pump	224	$147,282	11,748,222	587,411	182	494	$125,880	22,567,822	1,128,391	207
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	54	$24,797	1,891,939	126,129	35	113	$25,355	3,902,873	260,192	125
Heat Recovery Ventilators	145	$31,805	5,589,527	279,476	84	6	$1,408	246,588	12,329	4
Commercial Contractor Rebate (GS & AS)	212	$10,906				7	$7,497			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	103	$28,110	889,676	59,312	10	44	$19,304	212,970	14,198	2
Heat Pump Water Heater	1	$375	23,110	1,926	0	2	$600	46,220	3,852	0
Solar Water Heaters										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	29	$3,197	127,687	10,641	1	3	$363	19,243	1,379	0
Ag/Commercial & Industrial Insulation										
Building Envelope	9	$13,277	810,682	34,032	3	16	$15,240	3,971,580	158,863	14
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	551	$197,774	5,888,587	392,572	50	1,269	$28,403	2,845,458	189,697	39
Variable Speed Drive Motor Incentive	218	$89,072	80,802,810	5,386,854	456	1,556	$172,926	56,417,289	3,912,550	1,756
Agricultural										
Dairy Pre-coolers Incentive	11	$11,162	1,614,989	107,666	53	4	$2,000	588,411	39,227	21
Dairy Heat Reclaimer	7	$3,440	1,159,292	77,286	38					
Livestock Ventilation Fans	325	$33,239	1,969,083	164,090	44	224	$22,426	1,602,698	133,558	33
Ventilation Thermostat Controller	28	$902	75,952	6,329	1					
Circulating Fans --- BESS Lab Ratings	200	$25,159	1,679,219	124,950	32	81	$6,735	1,270,784	108,090	39
Scroll compressor (milk cooling)	13	$4,868	718,120	47,875	6	20	$600	1,107,225	73,815	10
Efficient Livestock Waterers	135	$8,729	1,280,520	106,710		55	$2,822	521,325	43,444	1
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	13	$12,723	2,872,340	168,961	14					
Hog Farrowing - Heat Lamps (<= 175W)	426	$1,644	283,804	70,951		240	$926	159,760	39,940	
Hog Farrowing - Single Crate Heating Pads (<=85W)	108	$3,457	215,767	21,577						
Hog Farrowing - Double Crate Heating Pads(<=170W)	18	$1,129	72,328	7,233						
Hog Farrowing - Heat Lamp or Pad Controller	12	$769	92,997	5,671						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	86	$383,836	30,555,555	2,489,761	412	35	$54,347	7,348,301	775,238	154
Ag, Commercial and Industrial Total	**33,254**	**$1,414,476**	**184,623,137**	**16,942,911**	**1,963**	**60,074**	**$1,302,427**	**169,034,817**	**17,807,409**	**3,966**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	26,686	$1,707,379			13,564	27,599	$2,655,341			13,435
Water Heater Storage	380	$27,695			380	687	$21,917			763
Air Conditioning Load Control	10,168	$836,450			7,118	9,948	$1,480,664			7,730
Space Heating Load Control (Interruptible)	12,273	$1,308,441			55,446	4,701	$62,839			4,895
Residential Time-of-Day Price	570	$24,600				574	$99,432			470
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	59	$4,158			354	1,704	$253,378			11,349
Dual-Fuel Space Heating	2,878	$605,776			17,268					
Crop Drying										
Off Peak Pricing	14	$2,769			28	14	$2,769			31
Load Control	50	$2,657			100	107	$14,445			238
Irrigation										
Time of Use Pricing	8	$1,852			53	35	$12,484			103
Load Control	579	$49,491			3,821	617	$81,082			4,520
Commercial and Industrial Time-of-Day Price	33	$12,806				45	$27,626			238
Industrial Interruptible Price	79	$2,182,041			25,834	147	$1,959,491			20,496
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	350	$135,442				62	$103,427			
Expert Energy Services - C&I	176	$126,685				22	$104,944			
Energy Audit Services - Residential *	1,827	$447,042				389	$130,456			
IV. Educational & Research Programs										
Model Housing Education	3,070	$62,471				11,278	$35,266			
Domestic Water Heater Enhancement	9,701	$12,075								
Member Information and Education	356,504	$885,484				360,020	$906,025			
Peak Alert	99,762	$11,555				20,633	$8,955			
Living with Energy in Iowa	87,544	$253,350				54,604	$173,698			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	136,205	$523,654				159,504	$616,946			
TOTAL	**920,653**	**$16,549,072**	**768,435,821**	**56,317,220**	**136,175**	**1,020,921**	**$15,309,434**	**694,609,283**	**58,350,069**	**76,811**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicabl

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Totals	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included										
ENERGY STAR Central Air Conditioning	1,075	$191,217	4,778,077	341,291	343	831	$142,110	3,665,507	261,822	290
ENERGY STAR Qualified Room Air Conditioner	315	$11,053	256,393	28,488	28	72	$3,431	58,533	6,504	7
Geothermal Heat Pump	976	$1,971,441	257,953,112	12,897,656	826	951	$1,968,700	250,848,008	12,542,400	1,019
Air Source Heat Pump	992	$737,277	116,393,919	7,759,595	807	604	$442,173	69,344,712	4,622,981	483
Heat Recovery Ventilators	162	$25,685	2,022,087	101,105		80	$12,971	995,515	49,776	622
Residential Contractor Rebates	837	$174,189				764	$269,787			
Residential Lighting (low income included										
Interior Lighting										
Change a Light Rebate Program (or similar program)	57,080	$133,022	27,200,424	3,726,086	3,480	201,264	$398,445	82,338,646	11,279,267	2,064
Local CFL Rebate Program(s)	45,381	$129,623	21,611,371	2,960,462	2,724	12,394	$51,587	5,918,883	810,806	825
ENERGY STAR CFL/LED Fixtures	636	$6,520	1,387,125	69,357	25	2,523	$16,647	5,541,843	277,092	112
T8 or better Lighting Fixtures	1,563	$15,133	1,465,905	89,384	30	7,104	$95,925	7,174,867	437,492	82
ENERGY STAR LED lighting	1,069	$12,522	1,428,531	79,363	43	14,029	$122,602	18,685,616	1,038,090	620
ENERGY STAR Ceiling Fan	232	$5,153	695,988	38,666	7	55	$1,299	164,753	9,153	2
CFL Recycling	31	$444				1,049	$474			
Exterior Lighting										
High Efficiency Exterior Lighting	1,185	$66,803	1,290,719	308,776	17	2,565	$192,396	7,212,461	1,427,371	21
LED Holiday Lighting	1,436	$5,626	1,338,926	111,577	359	315	$1,571	293,487	24,457	87
Residential Water Heating (low income included										
High Efficiency Water Heater	2,903	$658,855	12,097,956	806,530	107	2,022	$600,256	8,412,245	560,816	83
Heat Pump Water Heater - (Add-On)	53	$20,349	1,018,233	101,823	11	3	$1,340	57,638	5,764	1
Heat Pump Water Heater - (Integrated)	327	$187,430	7,523,894	626,991	69	212	$133,119	4,868,441	405,703	49
Solar Water Heaters (w/ Electric auxiliary tank)	57	$24,987	1,271,492	105,958	12	1	$500	22,444	1,870	0
Drain Water Heat Recovery System	1	$375	23,443	781	0	1	$706	23,276	776	0
Flow Restrictors - Faucet	3,729	$80,202	12,414,763	1,379,418	75	831	$6,346	2,492,046	276,894	17
Flow Restrictors - Shower	2,606	$114,567	16,435,747	1,643,575	130	535	$18,946	3,379,496	337,950	30
Tank Insulation	461	$13,619	787,048	78,705	5					
Pipe Insulation	955	$17,018	1,700,353	113,357	19	217	$12,996	385,240	25,683	5
Residential Appliances (low income included										
ENERGY STAR Qualified Clothes Washer	1,624	$112,793	4,029,423	366,311	133	1,689	$109,215	4,195,115	381,374	152
ENERGY STAR Qualified Dishwasher	1,629	$53,408	2,102,514	191,137	147	867	$29,714	1,117,453	101,587	86
ENERGY STAR Qualified Refrigerator	2,294	$73,386	3,614,159	240,944	22	1,920	$62,689	3,023,822	201,588	21
ENERGY STAR Qualified Dehumidifier	594	$17,732	1,674,783	139,566	12	257	$7,787	725,152	60,429	6
ENERGY STAR Qualified Freezer	1,419	$44,713	1,579,425	105,295	14	408	$13,710	453,255	30,217	5
Appliance Recycling	2,554	$181,493	24,626,909	2,740,499	460	1,036	$92,242	8,987,518	1,003,855	212
Efficient Television	391	$20,053	776,419	64,702	15	453	$23,000	898,652	74,888	20
Smart Strip	179	$1,119	198,690	19,869						
Efficient Home Incentives (low income included										
Energy Efficient Home Construction Rebates *	175	$118,339	5,792,424	193,081	31	52	$28,921	1,411,361	49,962	10
Advanced Lighting Package	80	$20,506	687,772	34,389	18					
Additional Low Income										
Energy Efficiency Kits	822	$25,737	8,357,303	928,589	107	1,659	$50,967	15,580,164	1,731,129	221
Weatherization Rebates	94	$52,723	3,018,735	101,903	15	2	$1,473	103,563	3,452	0
Building Shell - Existing Home Only										
Weatherization Rebates	1,898	$830,221	58,503,637	2,013,210	173	598	$277,850	23,058,668	775,780	66
Residential Total	**137,815**	**$6,155,336**	**606,057,701**	**40,508,436**	**10,264**	**257,363**	**$5,191,895**	**531,438,380**	**38,816,927**	**7,214**
Percentage of 5 year plan goal - Residential										

Totals	Plan Year 5 (2014) Estimated Achievable Potential					Plan Year 5 (2014) Year to Date Results				
	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	7,060	$16,513	3,940,340	1,091,477	424	13,973	$27,461	6,942,508	1,928,474	106
High Efficiency Interior Lighting	22,603	$322,410	28,494,772	5,352,202	78	39,962	$615,448	75,438,031	11,531,232	1,421
Exterior Lighting										
High Efficiency Exterior Lighting	676	$26,272	926,227	204,249	7	875	$70,055	3,371,665	375,031	11
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	163	$10,523	243,369	16,225	10	1,360	$23,990	4,052,010	270,134	441
Air Cooled Chillers	57	$1,461	175,917	8,796	4					
Water Cooled Chillers										
Geothermal Heat Pump	231	$149,210	12,147,217	607,361	182	207	$74,428	13,729,361	686,468	427
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	56	$25,610	1,941,438	129,429	36	49	$8,992	2,784,580	185,639	185
Heat Recovery Ventilators	153	$33,264	5,898,039	294,902	89					
Commercial Contractor Rebate (GS & AS)	221	$11,309				3	$4,299			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	105	$28,620	900,765	60,051	10	35	$15,893	173,243	11,550	2
Heat Pump Water Heater	1	$375	23,110	1,926	0	1	$300	23,110	1,926	0
Solar Water Heaters										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	26	$3,054	110,041	9,170	1					
Ag/Commercial & Industrial Insulation										
Building Envelope	9	$13,192	810,682	34,032	3	25	$30,650	6,205,594	248,224	22
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	553	$198,292	5,909,890	393,993	50	589	$35,286	1,674,339	111,623	23
Variable Speed Drive Motor Incentive	222	$93,180	82,286,422	5,485,761	464	230	$280,545	119,257,792	7,950,519	2,333
Agricultural										
Dairy Pre-coolers Incentive	15	$13,647	2,203,400	146,893	72	7	$3,500	1,029,719	68,648	37
Dairy Heat Reclaimer	11	$4,926	1,823,094	121,540	60					
Livestock Ventilation Fans	340	$32,444	2,067,619	172,302	46	68	$7,860	440,052	36,671	12
Ventilation Thermostat Controller	28	$896	75,952	6,329	1					
Circulating Fans --- BESS Lab Ratings	214	$25,371	1,736,526	129,726	33	79	$4,040	914,178	76,182	25
Scroll compressor (milk cooling)	13	$4,859	718,120	47,875	6	3	$476	166,084	11,072	1
Efficient Livestock Waterers	133	$8,565	1,261,310	105,109		104	$5,828	985,423	82,119	2
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	13	$12,693	2,872,340	168,961	14					
Hog Farrowing - Heat Lamps (<= 175W)	438	$1,681	291,792	72,948		48	$167	31,952	7,988	
Hog Farrowing - Single Crate Heating Pads (<=85W)	109	$3,472	217,762	21,776						
Hog Farrowing - Double Crate Heating Pads(<=170W)	18	$1,129	72,328	7,233						
Hog Farrowing - Heat Lamp or Pad Controller	12	$765	92,997	5,671						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	89	$384,709	31,087,977	2,534,086	431	54	$52,068	15,634,718	1,827,125	226
Ag, Commercial and Industrial Total	**33,571**	**$1,428,569**	**188,348,666**	**17,231,088**	**2,020**	**57,672**	**$1,261,286**	**252,854,359**	**25,410,624**	**5,275**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	27,326	$1,759,119			13,884	27,362	$2,584,527			13,221
Water Heater Storage	388	$28,068			388	715	$19,062			794
Air Conditioning Load Control	10,689	$861,568			7,482	10,211	$1,587,792			7,934
Space Heating Load Control (Interruptible)	12,776	$1,339,356			57,711	4,793	$69,661			4,940
Residential Time-of-Day Price	21	$5,600				549	$92,759			448
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	59	$4,327			354	897	$237,781			5,974
Dual-Fuel Space Heating	2,878	$612,729			17,268	1,007	$3,087			6,707
Crop Drying										
Off Peak Pricing	14	$2,769			28	14	$43			31
Load Control	51	$2,735			102	81	$9,785			180
Irrigation										
Time of Use Pricing	8	$1,895			53	45	$19,114			147
Load Control	591	$50,973			3,901	655	$116,946			4,784
Commercial and Industrial Time-of-Day Price	35	$13,553				50	$30,128			222
Industrial Interruptible Price	83	$2,252,752			26,112	228	$1,452,815			23,456
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	361	$138,485				66	$101,647			
Expert Energy Services - C&I	180	$129,549				75	$95,289			
Energy Audit Services - Residential *	1,875	$460,984				511	$102,833			
IV. Educational & Research Programs										
Model Housing Education	3,090	$62,610				11,238	$48,583			
Domestic Water Heater Enhancement	3,201	$12,115								
Member Information and Education	358,429	$878,512				359,547	$889,616			
Peak Alert	99,982	$21,357				47,626	$84,417			
Living with Energy in Iowa	88,054	$254,934				50,961	$159,447			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	136,982	$531,017				159,359	$627,072			
TOTAL	**918,459**	**$17,008,912**	**794,406,367**	**57,739,525**	**139,567**	**991,025**	**$14,785,585**	**784,292,739**	**64,227,551**	**81,326**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicabl

Section 3 Individual REC detailed sheets with updated goals and progress toward goals

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Access Energy Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Access Energy Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Access Energy Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Access Energy Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Access Energy Cooperative.

Access Energy Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Access Energy Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Access Energy Cooperative offers similar programs for the small

commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Access Energy Cooperative, we offer a rebate for lighting in addition to a custom rebate program. Due to the unique and varied nature of the large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Access Energy Cooperative also offers energy audits for all member-consumers.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Access Energy Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Access Energy Cooperative publishes a newsletter once a month that includes a variety of energy efficiency tips and articles to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Access Energy Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, at energy-fairs and through energy education outreach to our local schools. We also provide education to the public through radio advertisements, with at least 60% of our radio advertising comprised of energy efficiency messages. In addition 40% of any newspaper advertising we do includes an energy-saving idea or message. Through our education efforts, we encourage all of our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Access Energy Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Access Energy Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take

advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Access Energy Cooperative. Access Energy Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward..

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Access Energy Cooperative	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	57	$3,641	50,679	15,609	5,631	75	$32,359	66,684	25,290	7,409
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	160	$556,000	42,492,576	6,573,070	2,124,629	178	$636,410	47,272,991	7,555,711	2,363,650
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	30	$85,138	3,534,462	777,582	235,631	9	$12,071	1,060,339	290,612	70,690
Residential Lighting (low income included)											
Interior Lighting											
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	1,977	$50,330	945,158	444,350	129,474	3,288	$35,903	1,571,917	926,029	215,331
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)						1,375	$175,839	1,376,677	627,127	312,881
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	428	$52,805	641,358	115,884	42,757	402	$126,113	1,296,769	282,775	86,451
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	417	$24,625	1,391,387	409,668	154,599	139	$900	463,796	257,664	51,533
Flow Restrictors - Shower	Incentive for low-flow shower head.	417	$57,004	2,638,359	699,134	263,836	508	$33,173	3,214,116	1,037,629	321,412
Tank Insulation	Incentive for water heater tank insulation.	417	$31,970	712,820	188,889	71,282	301	$20,223	514,530	190,769	51,453
Pipe Insulation	Incentive for water pipe insulation.	417	$12,840	742,906	131,241	49,527	508	$31,448	905,028	194,783	60,335
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	350	$48,333	854,700	331,890	77,700	309	$52,847	628,461	234,709	57,133
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	189	$13,266	244,615	99,423	22,238	169	$29,817	218,730	82,950	19,885
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.						1	$38,655	33,300	5,550	1,110
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.						65	$32,577	661,038	146,897	73,449
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	560	$398,008	23,105,372	2,634,070	802,603	354	$264,899	10,284,171	1,151,926	363,715
Residential Total		**5,419**	**$1,333,960**	**77,354,393**	**12,420,808**	**3,979,906**	**7,681**	**$1,523,234**	**69,568,547**	**13,010,421**	**4,056,435**
Percentage of 5 year plan goal - Residential								**114%**	**90%**		**102%**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	13,028	$333,255	20,785,794	10,122,676	3,155,064	14,156	$639,443	63,549,740	26,760,801	8,059,287
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	5	$7,354	86,802	13,020	4,340	6	$4,736	104,162	10,416	5,208
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	5	$6,380	360,889	72,178	24,059					
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	1	$2,545	147,103	49,034	9,807					
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	1	$233	5,315	2,214	443					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	5	$25,877	1,498,500	499,500	99,900					
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	1	$1,064	55,361	18,454	3,691					
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	1	$3,664	222,043	65,307	13,061					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		5	$59,632	2,220,000	666,000	222,000	1	$43,118			
Ag, Commercial and Industrial Total		**13,052**	**$440,002**	**25,381,807**	**11,508,383**	**3,532,365**	**14,163**	**$687,297**	**63,653,903**	**26,771,218**	**8,064,495**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**156%**	**251%**		**228%**
II. Demand Response Programs											
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	14	$2,800								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	18	$54,000				6	$51,475			
Energy Audit Services - Residential *	Energy Audit Services - Residential	610	$321,000				527	$251,131			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	34,290	$730,000				34,117	$507,309			
Peak Alert	Peak Alert	34,290	$4,250				34,117	$4,713			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	34,290	$87,570				34,117	$115,057			
TOTAL		**121,983**	**$2,973,583**	**102,736,200**	**23,929,191**	**7,512,271**	**124,728**	**$3,140,216**	**133,222,449**	**39,781,639**	**12,120,930**
Percentage of 5 year plan goal achieved								**106%**	**130%**		**161%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Access Energy Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Qualified Room Air Conditioner	2	$128	1,778	198	0	17	$7,161	15,115	1,679	2
Geothermal Heat Pump	35	$121,625	9,295,251	464,763	54	42	$140,359	11,154,301	557,715	72
Air Source Heat Pump	9	$25,541	1,060,339	70,689	9	6	$10,084	706,892	47,126	7
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	177	$4,506	84,620	11,592	11	1,888	$3,449	902,609	123,645	126
Exterior Lighting										
High Efficiency Exterior Lighting										
Residential Water Heating (low income included)										
High Efficiency Water Heater	48	$5,922	71,928	4,795	1	103	$20,211	356,710	23,781	3
Flow Restrictors - Faucet	37	$2,185	123,456	13,717	1	139	$900	463,796	51,533	3
Flow Restrictors - Shower	37	$5,058	234,099	23,410	2	139	$2,250	879,453	87,945	8
Tank Insulation	37	$2,837	63,248	6,325	0	139	$4,500	237,607	23,761	2
Pipe Insulation	37	$1,139	65,917	4,394	1	139	$525	247,635	16,509	3
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	165	$22,786	402,930	36,630	13	135	$18,411	242,307	22,028	9
ENERGY STAR Qualified Dishwasher	114	$8,002	147,546	13,413	10	73	$7,781	94,481	8,589	7
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						1	$38,655	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	174	$131,058	7,720,772	266,147	17	99	$48,747	2,375,705	86,614	10
Residential Total	**872**	**$330,786**	**19,271,883**	**916,073**	**119**	**2,920**	**$303,033**	**17,709,912**	**1,052,036**	**252**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	816	$15,530	3,782,001	498,221	7	816	$15,530	3,782,001	498,221	8
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	5	$25,877	1,498,500	99,900	21					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12					
Ag, Commercial and Industrial Total	**828**	**$63,585**	**6,243,861**	**675,203**	**48**	**816**	**$15,530**	**3,782,001**	**498,221**	**8**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	8	$1,600								
Expert Energy Services - C&I	5	$15,000				2	$12,475			
Energy Audit Services - Residential *	150	$67,000				139	$65,891			
IV. Educational & Research Programs										
Member Information and Education	6,864	$146,000				6,867	$145,845			
Peak Alert	6,864	$850				6,867	$585			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,864	$5,400				6,867	$22,580			
TOTAL	**22,455**	**$630,221**	**25,515,744**	**1,591,276**	**166**	**24,478**	**$565,939**	**21,491,913**	**1,550,257**	**260**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Access Energy Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Qualified Room Air Conditioner	19	$1,214	16,893	1,877	2	20	$18,036	17,782	1,976	2
Geothermal Heat Pump	35	$121,625	9,295,251	464,763	54	37	$125,086	9,826,408	491,320	63
Air Source Heat Pump	6	$17,028	706,892	47,126	6					
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	800	$20,366	382,462	52,392	48	1,100	$11,000	525,885	72,039	73
Exterior Lighting										
High Efficiency Exterior Lighting										
Residential Water Heating (low income included)										
High Efficiency Water Heater	80	$9,870	119,880	7,992	2	77	$53,808	225,524	15,035	2
Flow Restrictors - Faucet	80	$4,724	266,933	29,659	2					
Flow Restrictors - Shower	80	$10,936	506,160	50,616	4	103	$2,500	651,681	65,168	6
Tank Insulation	80	$6,133	136,752	13,675	1					
Pipe Insulation	80	$2,463	142,524	9,502	2	103	$2,500	183,500	12,233	2
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	115	$15,881	280,830	25,530	9	118	$28,836	211,795	19,254	8
ENERGY STAR Qualified Dishwasher	50	$3,510	64,713	5,883	5	52	$19,636	67,302	6,118	5
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	86	$57,856	3,292,704	115,211	8	88	$99,917	2,520,311	89,768	9
Residential Total	**1,511**	**$271,606**	**15,211,994**	**824,226**	**141**	**1,698**	**$361,319**	**14,230,187**	**772,912**	**171**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	4,822	$128,725	6,714,076	1,049,074	14	8,022	$177,215	39,413,968	5,118,030	89
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)										
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12	1	$43,118			
Ag, Commercial and Industrial Total	**4,825**	**$143,398**	**7,247,614**	**1,099,154**	**28**	**8,023**	**$220,333**	**39,413,968**	**5,118,030**	**89**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Expert Energy Services - C&I	4	$12,000				1	$14,250			
Energy Audit Services - Residential *	100	$62,000				103	$45,875			
IV. Educational & Research Programs										
Member Information and Education	6,852	$146,000				6,827	$90,913			
Peak Alert	6,852	$850				6,827	$750			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,852	$22,170				6,827	$22,538			
TOTAL	**26,996**	**$658,024**	**22,459,608**	**1,923,380**	**169**	**30,306**	**$755,978**	**53,644,155**	**5,890,942**	**260**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Access Energy Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Qualified Room Air Conditioner	12	$766	10,669	1,185	1	23	$4,388	20,450	2,272	2
Geothermal Heat Pump	30	$104,250	7,967,358	398,368	46	43	$168,780	11,419,880	570,994	74
Air Source Heat Pump	5	$14,190	589,077	39,272	5	2	$1,012	235,631	15,709	2
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	800	$20,366	382,462	52,392	48					
Exterior Lighting										
High Efficiency Exterior Lighting						484	$64,463	484,590	110,134	
Residential Water Heating (low income included)										
High Efficiency Water Heater	100	$12,338	149,850	9,990	2	94	$20,256	327,756	21,850	3
Flow Restrictors - Faucet	100	$5,905	333,666	37,074	2					
Flow Restrictors - Shower	100	$13,670	632,700	63,270	5	101	$2,500	639,027	63,903	6
Tank Insulation	100	$7,667	170,940	17,094	1	97	$2,500	165,812	16,581	1
Pipe Insulation	100	$3,079	178,155	11,877	2	101	$2,500	179,937	11,996	2
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	70	$9,667	170,940	15,540	6	56	$5,600	174,359	15,851	6
ENERGY STAR Qualified Dishwasher	25	$1,755	32,357	2,942	2	44	$2,400	56,947	5,177	4
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	100	$69,698	4,030,632	140,415	10	42	$16,281	1,859,338	62,584	5
Residential Total	**1,542**	**$263,351**	**14,648,805**	**789,419**	**130**	**1,087**	**$290,680**	**15,563,727**	**897,051**	**105**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	3,000	$79,000	4,177,152	652,680	9	1,063	$188,429	3,139,001	383,607	7
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)										
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12					
Ag, Commercial and Industrial Total	**3,003**	**$93,673**	**4,710,690**	**702,760**	**22**	**1,063**	**$188,429**	**3,139,001**	**383,607**	**7**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$400								
Expert Energy Services - C&I	3	$9,000				2	$16,250			
Energy Audit Services - Residential *	120	$64,000				101	$88,105			
IV. Educational & Research Programs										
Member Information and Education	6,855	$146,000				6,765	$93,476			
Peak Alert	6,855	$850				6,765	$639			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,855	$20,000				6,765	$22,728			
TOTAL	**25,235**	**$597,274**	**19,359,496**	**1,492,179**	**152**	**22,548**	**$700,307**	**18,702,728**	**1,280,658**	**112**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Access Energy Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Qualified Room Air Conditioner	12	$766	10,669	1,185	1	7	$1,774	6,224	692	1
Geothermal Heat Pump	30	$104,250	7,967,358	398,368	46	26	$108,835	6,905,044	345,252	44
Air Source Heat Pump	5	$14,190	589,077	39,272	5					
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	100	$2,546	47,808	6,549	6					
Exterior Lighting										
High Efficiency Exterior Lighting						413	$51,625	413,504	93,978	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	100	$12,338	149,850	9,990	2	61	$18,508	185,947	12,396	2
Flow Restrictors - Faucet	100	$5,905	333,666	37,074	2					
Flow Restrictors - Shower	100	$13,670	632,700	63,270	5	65	$13,223	411,255	41,126	4
Tank Insulation	100	$7,667	170,940	17,094	1	65	$13,223	111,111	11,111	1
Pipe Insulation	100	$3,079	178,155	11,877	2	65	$13,223	115,801	7,720	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer										
ENERGY STAR Qualified Dishwasher										
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits						65	$32,577	661,038	73,449	9
Building Shell - Existing Home Only										
Weatherization Rebates	100	$69,698	4,030,632	140,415	10	65	$32,546	1,250,265	47,282	7
Residential Total	**747**	**$234,109**	**14,110,855**	**725,094**	**80**	**832**	**$285,534**	**10,060,189**	**633,005**	**69**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	2,400	$60,000	3,341,722	522,144	7	1,569	$163,816	5,094,385	587,325	6
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0	6	$4,736	104,162	5,208	1
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)										
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12					
Ag, Commercial and Industrial Total	**2,403**	**$74,673**	**3,875,260**	**572,224**	**20**	**1,575**	**$168,552**	**5,198,547**	**592,534**	**7**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$400								
Expert Energy Services - C&I	3	$9,000				1	$8,500			
Energy Audit Services - Residential *	120	$64,000				84	$36,260			
IV. Educational & Research Programs										
Member Information and Education	6,858	$146,000				6,856	$90,671			
Peak Alert	6,858	$850				6,856	$2,389			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,858	$20,000				6,856	$23,188			
TOTAL	**23,849**	**$549,032**	**17,986,115**	**1,297,318**	**100**	**23,060**	**$615,094**	**15,258,736**	**1,225,539**	**76**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Access Energy Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Qualified Room Air Conditioner	12	$766	10,669	1,185	1	8	$1,000	7,113	790	1
Geothermal Heat Pump	30	$104,250	7,967,358	398,368	46	30	$93,350	7,967,358	398,368	51
Air Source Heat Pump	5	$14,190	589,077	39,272	5	1	$975	117,815	7,854	1
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	100	$2,546	47,808	6,549	6	300	$21,454	143,423	19,647	20
Exterior Lighting										
High Efficiency Exterior Lighting						478	$59,751	478,583	108,769	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	100	$12,338	149,850	9,990	2	67	$13,330	200,832	13,389	2
Flow Restrictors - Faucet	100	$5,905	333,666	37,074	2					
Flow Restrictors - Shower	100	$13,670	632,700	63,270	5	100	$12,700	632,700	63,270	6
Tank Insulation	100	$7,667	170,940	17,094	1					
Pipe Insulation	100	$3,079	178,155	11,877	2	100	$12,700	178,155	11,877	2
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer										
ENERGY STAR Qualified Dishwasher										
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	100	$69,698	4,030,632	140,415	10	60	$67,408	2,278,553	77,467	7
Residential Total	**747**	**$234,109**	**14,110,855**	**725,094**	**80**	**1,144**	**$282,668**	**12,004,532**	**701,431**	**90**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	1,990	$50,000	2,770,844	432,944	6	2,686	$94,453	12,120,386	1,472,103	69
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)										
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12					
Ag, Commercial and Industrial Total	**1,993**	**$64,673**	**3,304,382**	**483,024**	**19**	**2,686**	**$94,453**	**12,120,386**	**1,472,103**	**69**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$400								
Expert Energy Services - C&I	3	$9,000								
Energy Audit Services - Residential *	120	$64,000				100	$15,000			
IV. Educational & Research Programs										
Member Information and Education	6,861	$146,000				6,802	$86,404			
Peak Alert	6,861	$850				6,802	$350			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,861	$20,000				6,802	$24,023			
TOTAL	**23,448**	**$539,032**	**17,415,237**	**1,208,118**	**99**	**24,336**	**$502,898**	**24,124,918**	**2,173,534**	**159**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

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A Touchstone Energy® Cooperative

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Allamakee-Clayton Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Allamakee-Clayton Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.
Allamakee-Clayton Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Allamakee-Clayton Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Allamakee-Clayton Cooperative.

Allamakee-Clayton Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Allamakee-Clayton Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and

appliances. Allamakee-Clayton Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Allamakee-Clayton Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Allamakee-Clayton Cooperative also offers energy audits for all member-consumers.

In addition to the rebate opportunities, Allamakee-Clayton Cooperative offers three demand response programs that help us to be both environmentally and fiscally responsible. These programs are water heater, electric heating and air conditioning load control. These optional incentive programs allow member-consumers to receive a bill credit in exchange for our ability to curtail water heater load during peak times and a separate rate for home heating.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Allamakee-Clayton Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Allamakee-Clayton Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Allamakee-Clayton Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Allamakee-Clayton Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Allamakee-Clayton Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to

leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Allamakee-Clayton Cooperative. Allamakee-Clayton Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Allamakee-Clayton Electric Cooperative, Inc.	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	167	$32,125	522,890	105,956	37,349	116	$23,296	324,302	68,239	23,163
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	117	$3,656	66,623	21,132	7,403	111	$3,377	63,207	25,307	7,023
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	117	$131,625	31,072,696	4,435,163	1,553,635	102	$91,624	27,089,017	4,833,531	1,354,451
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	87	$39,150	10,249,940	1,947,881	683,329	71	$32,260	8,364,893	1,555,163	557,659
Heat Recovery Ventilators	Rebate for heat recovery ventilators.						2	$120	25,042	6,260	1,252
Residential Contractor Rebates	Incentive for heat pump installs						52	$6,178			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	5,000	$10,950	2,390,385	982,350	327,450	2,278	$2,395	1,089,059	743,965	149,186
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	4,693	$11,733	2,243,615	874,881	307,345	10,948	$21,643	5,233,987	2,695,898	716,985
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						547	$3,205	1,202,197	62,526	60,109
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	117	$1,463	80,935	14,088	4,935	530	$3,739	366,629	36,865	22,355
ENERGY STAR LED lighting	Rebate for LED lighting.	87	$218	116,463	18,444	6,470	837	$2,789	1,120,458	99,061	62,248
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	131	$2,456	172,472	106,357	37,567	1	$15	2,426	990	495
LED Holiday Lighting	Rebate for holiday lighting.	146	$1,460	136,130	32,323	11,344	647	$1,879	603,263	221,598	50,271
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	293	$73,250	1,624,524	308,271	108,302	81	$17,993	449,100	106,823	29,940
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	10	$3,750	231,102	57,776	19,259	40	$13,067	924,407	171,401	77,034
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	5	$1,875	112,221	28,055	9,352					
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	523	$654	1,745,073	599,857	193,897	10	$17	33,367	8,156	3,707
Flow Restrictors - Shower	Incentive for low-flow shower head.	298	$1,863	1,885,446	536,530	188,545	9	$70	56,943	15,820	5,695
Pipe Insulation	Incentive for water pipe insulation.	300	$1,245	534,465	100,955	35,631					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	880	$55,000	2,148,960	556,110	195,360	678	$17,557	1,655,676	524,586	150,516
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	322	$10,063	416,752	107,777	37,887	441	$11,149	570,768	182,257	51,889
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	527	$16,469	833,582	158,280	55,572	733	$18,910	1,159,424	251,501	77,296
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	87	$1,631	246,833	58,635	20,569	133	$3,484	377,342	107,103	31,445
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	117	$3,656	130,519	24,840	8,701	31	$775	34,582	11,527	2,305
Appliance Recycling	Incentives for appliance recycling.	89	$5,563	853,376	268,525	94,820	308	$9,878	3,090,343	1,105,580	343,848
Smart Strip	Incentive for smart power supply strip.	175	$1,094	194,250	52,725	19,425	1	$5	1,110	444	111
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	35	$26,250	1,165,500	105,450	38,850	2	$1,175	66,600	2,220	2,220
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	146	$1,825	1,484,794	470,072	164,977					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	45	$11,250	1,711,537	138,423	59,324					
Residential Total		**14,514**	**$450,271**	**62,371,084**	**12,110,854**	**4,227,296**	**18,709**	**$286,600**	**53,904,140**	**12,836,822**	**3,781,204**
Percentage of 5 year plan goal - Residential								**64%**	**86%**		**89%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Allamakee-Clayton Electric Cooperative, Inc.	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.						13	$65	7,065	9,812	1,962
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	526	$5,755	1,489,058	619,462	215,942	4,806	$28,795	5,578,222	2,530,076	947,662
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	88	$1,650	98,120	56,432	20,024	18	$302	114,863	14,199	10,709
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	5	$625	15,485	3,097	1,032	8	$300	24,775	4,130	1,652
Geothermal Heat Pump	Rebate for geothermal heat pump.	9	$10,125	2,390,207	331,973	119,510	5	$1,586	1,195,104	59,755	59,755
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	5	$2,250	589,077	117,815	39,272	2	$358	265,085	29,454	17,672
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.						1	$50			
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	23	$5,750	127,522	24,396	8,501	3	$375	16,633	2,218	1,109
Heat Pump Water Heater	Rebate for heat pump water heater.						2	$600	46,220	7,703	3,852
Ag/Commercial & Industrial Motors											
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	5	$1,875	1,632,533	326,507	108,836	121	$6,388	3,362,130	428,805	224,142
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	9	$5,625	1,323,925	186,330	88,262	10	$5,524	1,471,028	274,592	98,069
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	9	$3,375	1,493,555	210,204	99,570	1	$300	165,951	33,189	11,063
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	35	$2,100	919,346	207,947	76,612	82	$7,260	1,067,651	256,628	88,971
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.						114	$5,413	1,079,625	285,897	89,969
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	12	$2,250	664,335	121,795	44,289	30	$6,429	1,660,838	354,315	110,723
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	15	$938	143,057	35,764	11,921	170	$10,178	1,621,310	308,367	135,109
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.						3	$1,283	666,130	143,676	39,184
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		10	$7,300	2,331,000	466,200	155,400	1,802	$29,948	10,533,448	2,257,418	992,467
Ag, Commercial and Industrial Total		**751**	**$49,618**	**13,217,219**	**2,707,923**	**989,172**	**7,190**	**$105,154**	**28,876,079**	**7,000,233**	**2,834,070**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**212%**	**218%**		**287%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	15,118	$223,163				12,693	$131,446			
Water Heater Storage	Water heater storage.	707	$21,938				921	$64,793			
Air Conditioning Load Control	Load control for air conditioning	60	$6,377				1,195	$212,703			
Space Heating Load Control (Interruptible)	Load control for space heating.	5,084	$274,912				4,829	$248,746			
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	Dual fuel for space heating and air conditioning.	60	$10,747				41	$10,480			
Crop Drying											
Load Control	Crop drying load control.	145	$7,526				139	$7,335			
Irrigation											
Time of Use Pricing	Irrigation time of use prices.						2	$3,451			
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price	12	$27,629				98	$88,015			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	469	$106,976				126	$29,888			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	10	$2,674				24	$8,493			
Energy Audit Services - Residential *	Energy Audit Services - Residential	270	$79,547				51	$67,150			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	1,100	$13,268				34,706	$85,918			
Member Information and Education	Member Information and Education	35,000	$133,537				34,825	$68,533			
Peak Alert	Peak Alert	35,000									
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	35,000	$95,477				34,825	$83,988			
TOTAL		**143,300**	**$1,503,660**	**75,588,304**	**14,818,776**	**5,216,468**	**150,374**	**$1,502,693**	**82,780,220**	**19,837,055**	**6,615,275**
Percentage of 5 year plan goal achieved								**100%**	**110%**		**127%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Allamakee-Clayton Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	28	$5,375	87,521	6,252	9	27	3,750	68,407	4,886	8
ENERGY STAR Qualified Room Air Conditioner	20	$625	11,389	1,265	2	23	$575	13,097	1,455	2
Geothermal Heat Pump	20	$22,500	5,311,572	265,579	31	28	$21,122	7,436,201	371,810	48
Air Source Heat Pump	15	$6,750	1,767,231	117,815	15	9	$3,690	1,060,339	70,689	10
Heat Recovery Ventilators						2	$120	25,042	1,252	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,000	$2,190	478,077	65,490	60	2,263	$2,263	1,081,888	148,204	151
Local CFL Rebate Program(s)	800	$2,000	382,462	52,392	48					
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	20	$250	13,835	844	0					
ENERGY STAR LED lighting	15	$38	20,080	1,116	1	44	$88	58,901	3,272	2
Exterior Lighting										
High Efficiency Exterior Lighting	22	$413	29,150	6,344	0					
LED Holiday Lighting	25	$250	23,310	1,943	6	316	$631	294,638	24,553	88
Residential Water Heating (low income included)										
High Efficiency Water Heater	50	$12,500	277,223	18,482	3	31	$7,175	171,878	11,459	2
Heat Pump Water Heater - (Integrated)	2	$750	46,220	3,852	0	1	$300	23,110	1,926	0
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0					
Flow Restrictors - Faucet	100	$125	333,666	37,074	2					
Flow Restrictors - Shower	50	$313	316,350	31,635	3					
Pipe Insulation	50	$208	89,078	5,939	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	150	$9,375	366,300	33,300	12	232	$5,800	566,544	51,504	21
ENERGY STAR Qualified Dishwasher	55	$1,719	71,184	6,471	5	109	$2,725	141,074	12,825	11
ENERGY STAR Qualified Refrigerator	90	$2,813	142,358	9,491	1	187	$4,675	295,787	19,719	2
ENERGY STAR Qualified Dehumidifier	15	$281	42,557	3,546	0	30	$750	85,115	7,093	1
ENERGY STAR Qualified Freezer	20	$625	22,311	1,487	0	31	$775	34,582	2,305	0
Appliance Recycling	15	$938	143,406	15,934	3	77	$3,800	807,279	89,766	16
Smart Strip	25	$156	27,750	2,775						
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	5	$3,750	166,500	5,550	1					
Additional Low Income										
Energy Efficiency Kits	25	$313	254,246	28,250	3					
Building Shell - Existing Home Only										
Weatherization Rebates	3	$750	114,102	3,955	0					
Residential Total	**2,621**	**$75,379**	**10,560,321**	**728,648**	**206**	**3,410**	**$58,239**	**12,163,882**	**822,719**	**361**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Allamakee-Clayton Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program						13	$65	7,065	1,962	1
High Efficiency Interior Lighting	93	$1,009	255,819	37,516	1	609	$3,105	754,550	116,164	4
Exterior Lighting										
High Efficiency Exterior Lighting	15	$281	16,725	3,413	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0					
Geothermal Heat Pump	1	$1,125	265,579	13,279	15					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	1	$450	117,815	7,854	10					
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	4	$1,000	22,178	1,479	0					
Heat Pump Water Heater										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$375	326,507	21,767	0					
Agricultural										
Dairy Pre-coolers Incentive	1	$625	147,103	9,807	5					
Dairy Heat Reclaimer	1	$375	165,951	11,063	5					
Livestock Ventilation Fans	5	$300	131,335	10,945	1	5	$120	25,974	2,165	1
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)	2	$375	110,723	7,382	1	11	$5,179	608,974	40,598	5
Efficient Livestock Waterers	3	$188	28,611	2,384		13	$650	123,983	10,332	
Variable Speed Drive Motor - Dairy Vacuum Pump						1	$300	222,043	13,061	1
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$1,460	466,200	31,080	16	2	$7,699	3,381,540	225,436	
Ag, Commercial and Industrial Total	**130**	**$7,688**	**2,057,641**	**158,175**	**54**	**654**	**$17,118**	**5,124,129**	**409,718**	**12**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	2,949	$40,387			1,475	2,622	$31,639			1,455
Water Heater Storage	128	$3,970			128	181	$15,123			201
Air Conditioning Load Control	10	$1,154			7	102	$44,652			79
Space Heating Load Control (Interruptible)	920	$49,752			4,140	916	$50,635			4,575
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	12	$1,945			72	9	$2,200			60
Crop Drying										
Load Control	27	$1,362			54	28	$1,540			62
Irrigation										
Time of Use Pricing										
Commercial and Industrial Time-of-Day Price	2	$5,000				21	$18,477			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	80	$19,360				25	$4,399			
Expert Energy Services - C&I	2	$484				2	$1,100			
Energy Audit Services - Residential *	54	$14,396				28	$16,277			
IV. Educational & Research Programs										
Model Housing Education	200	$2,401				6,896	$18,037			
Member Information and Education	7,000	$24,167				6,896	$13,237			
Peak Alert	7,000									
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,000	$17,287				6,896	$15,735			
TOTAL	**28,135**	**$264,731**	**12,617,962**	**886,823**	**6,136**	**28,686**	**$308,408**	**17,288,010**	**1,232,437**	**6,807**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Allamakee-Clayton Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	31	$5,938	96,721	6,909	10	26	5,420	68,575	4,898	8
ENERGY STAR Qualified Room Air Conditioner	22	$688	12,527	1,392	2	41	$1,539	23,347	2,594	4
Geothermal Heat Pump	22	$24,750	5,842,729	292,136	34	42	$27,061	11,154,301	557,715	72
Air Source Heat Pump	16	$7,200	1,885,046	125,670	16	23	$7,365	2,709,754	180,650	26
Heat Recovery Ventilators										
Residential Contractor Rebates						26	$3,477			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,000	$2,190	478,077	65,490	60					
Local CFL Rebate Program(s)	864	$2,160	413,059	56,583	52	9,793	$19,804	4,681,808	641,344	652
ENERGY STAR CFL/LED Fixtures						6	$30	13,187	659	
T8 or better Lighting Fixtures	22	$275	15,219	928	0					
ENERGY STAR LED lighting	16	$40	21,419	1,190	1	73	$244	97,722	5,429	3
Exterior Lighting										
High Efficiency Exterior Lighting	24	$450	31,152	6,799	0					
LED Holiday Lighting	27	$270	25,175	2,098	7	292	$976	272,261	22,688	81
Residential Water Heating (low income included)										
High Efficiency Water Heater	54	$13,500	299,400	19,960	3	16	$4,293	88,711	5,914	1
Heat Pump Water Heater - (Integrated)	2	$750	46,220	3,852	0	2	$894	46,220	3,852	
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0					
Flow Restrictors - Faucet	110	$138	367,033	40,781	2					
Flow Restrictors - Shower	55	$344	347,985	34,799	3	1	$10	6,327	633	
Pipe Insulation	55	$228	97,985	6,532	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	162	$10,125	395,604	35,964	13	143	$3,815	349,206	31,746	13
ENERGY STAR Qualified Dishwasher	59	$1,844	76,361	6,942	5	124	$3,198	160,488	14,590	12
ENERGY STAR Qualified Refrigerator	97	$3,031	153,430	10,229	1	150	$3,848	237,263	15,818	2
ENERGY STAR Qualified Dehumidifier	16	$300	45,395	3,783	0	48	$1,298	136,184	11,349	1
ENERGY STAR Qualified Freezer	22	$688	24,542	1,636	0					
Appliance Recycling	16	$1,000	154,216	17,135	3	57	$1,523	572,363	63,664	11
Smart Strip	30	$188	33,300	3,330		1	$5	1,110	111	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	6	$4,500	199,800	6,660	1					
Additional Low Income										
Energy Efficiency Kits	27	$338	274,585	30,509	4					
Building Shell - Existing Home Only										
Weatherization Rebates	6	$1,500	228,205	7,910	1					
Residential Total	**2,762**	**$82,807**	**11,587,629**	**791,087**	**219**	**10,864**	**$84,800**	**20,618,827**	**1,563,654**	**886**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Allamakee-Clayton Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	100	$1,083	280,438	40,834	1	1,499	$9,034	1,798,601	280,087	10
Exterior Lighting										
High Efficiency Exterior Lighting	15	$281	16,725	3,413	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0	2	$80	6,194	413	1
Geothermal Heat Pump	2	$2,250	531,157	26,558	30					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	1	$450	117,815	7,854	10					
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	4	$1,000	22,178	1,479	0					
Heat Pump Water Heater										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$375	326,507	21,767	0	3	$1,609	656,661	43,777	4
Agricultural										
Dairy Pre-coolers Incentive	1	$625	147,103	9,807	5	1	$524	147,103	9,807	5
Dairy Heat Reclaimer	1	$375	165,951	11,063	5					
Livestock Ventilation Fans	6	$360	157,602	13,134	1	21	$780	111,608	9,301	3
Circulating Fans --- BESS Lab Ratings						50	$1,864	482,948	40,245	7
Scroll compressor (milk cooling)	2	$375	110,723	7,382	1	1	$174	55,361	3,691	
Efficient Livestock Waterers	3	$188	28,611	2,384		28	$1,424	267,039	22,253	
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$1,460	466,200	31,080	16	1,794	$4,915	500,179	87,447	
Ag, Commercial and Industrial Total	**139**	**$8,946**	**2,374,106**	**176,961**	**69**	**3,399**	**$20,404**	**4,025,694**	**497,021**	**30**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	2,986	$42,406			1,493	2,619	$30,800			1,454
Water Heater Storage	134	$4,169			134	179	$15,374			199
Air Conditioning Load Control	11	$1,212			8	234	$52,016			182
Space Heating Load Control (Interruptible)	966	$52,240			4,347	962	$57,703			4,805
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	12	$2,042			72	8	$2,563			53
Crop Drying										
Load Control	28	$1,430			56	28	$1,794			62
Irrigation										
Time of Use Pricing										
Commercial and Industrial Time-of-Day Price	2	$5,250				21	$21,524			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	86	$20,328				30	$5,125			
Expert Energy Services - C&I	2	$508				2	$1,281			
Energy Audit Services - Residential *	54	$15,116				10	$18,961			
IV. Educational & Research Programs										
Model Housing Education	210	$2,521				6,889	$21,011			
Member Information and Education	7,000	$25,375				6,889	$13,269			
Peak Alert	7,000									
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,000	$18,152				6,889	$15,993			
TOTAL	**28,392**	**$282,502**	**13,961,735**	**968,048**	**6,398**	**39,023**	**$362,618**	**24,644,521**	**2,060,675**	**7,671**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Allamakee-Clayton Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	33	$6,375	103,683	7,406	11	14	5,000	38,664	2,761	5
ENERGY STAR Qualified Room Air Conditioner	23	$719	13,097	1,455	2	30	$825	17,083	1,898	3
Geothermal Heat Pump	23	$25,875	6,108,308	305,415	35	4	$11,500	1,062,314	53,116	7
Air Source Heat Pump	17	$7,650	2,002,862	133,524	17	5	$5,460	589,077	39,272	6
Heat Recovery Ventilators										
Residential Contractor Rebates						20	$1,888			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,000	$2,190	478,077	65,490	60	15	$132	7,171	982	1
Local CFL Rebate Program(s)	933	$2,333	446,046	61,102	56	8	$72	3,825	524	1
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	23	$288	15,910	970	0					
ENERGY STAR LED lighting	17	$43	22,757	1,264	1	5	$98	6,693	372	
Exterior Lighting										
High Efficiency Exterior Lighting	26	$488	34,579	7,521	0					
LED Holiday Lighting	29	$290	27,040	2,253	7	26	$246	24,242	2,020	7
Residential Water Heating (low income included)										
High Efficiency Water Heater	58	$14,500	321,578	21,439	3	11	$1,900	60,989	4,066	1
Heat Pump Water Heater - (Integrated)	2	$750	46,220	3,852	0	11	$3,600	254,212	21,184	3
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0					
Flow Restrictors - Faucet	120	$150	400,399	44,489	2	3	$10	10,010	1,112	
Flow Restrictors - Shower	60	$375	379,620	37,962	3	5	$45	31,635	3,164	
Pipe Insulation	60	$249	106,893	7,126	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	175	$10,938	427,350	38,850	14	105	$2,650	256,410	23,310	9
ENERGY STAR Qualified Dishwasher	64	$2,000	82,833	7,530	6	98	$2,450	126,837	11,531	10
ENERGY STAR Qualified Refrigerator	105	$3,281	166,084	11,072	1	153	$3,900	242,008	16,134	2
ENERGY STAR Qualified Dehumidifier	17	$319	48,232	4,019	0	15	$375	42,557	3,546	
ENERGY STAR Qualified Freezer	23	$719	25,658	1,711	0					
Appliance Recycling	18	$1,125	172,088	19,121	3	62	$1,575	615,171	68,420	12
Smart Strip	35	$219	38,850	3,885						
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	7	$5,250	233,100	7,770	1					
Additional Low Income										
Energy Efficiency Kits	29	$363	294,925	32,769	4					
Building Shell - Existing Home Only										
Weatherization Rebates	9	$2,250	342,307	11,865	1					
Residential Total	**2,907**	**$89,110**	**12,360,939**	**841,732**	**231**	**590**	**$41,726**	**3,388,898**	**253,412**	**67**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Allamakee-Clayton Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	104	$1,135	292,981	42,546	1	132	$6,155	191,199	29,254	
Exterior Lighting										
High Efficiency Exterior Lighting	18	$338	20,070	4,096	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0					
Geothermal Heat Pump	2	$2,250	531,157	26,558	30					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	1	$450	117,815	7,854	10					
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$1,250	27,722	1,848	0					
Heat Pump Water Heater										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$375	326,507	21,767	0					
Agricultural										
Dairy Pre-coolers Incentive	1	$625	147,103	9,807	5	6	$3,500	882,617	58,841	32
Dairy Heat Reclaimer	1	$375	165,951	11,063	5	1	$300	165,951	11,063	6
Livestock Ventilation Fans	7	$420	183,869	15,322	1	8	$4,592	674,964	56,247	18
Circulating Fans --- BESS Lab Ratings						4	$1,338	353,587	29,466	1
Scroll compressor (milk cooling)	2	$375	110,723	7,382	1	2	$450	110,723	7,382	1
Efficient Livestock Waterers	3	$188	28,611	2,384		22	$2,150	209,817	17,485	
Variable Speed Drive Motor - Dairy Vacuum Pump						2	$983	444,087	26,123	2
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$1,460	466,200	31,080	16	1	$920	256,199	40,031	1
Ag, Commercial and Industrial Total	**148**	**$9,365**	**2,421,806**	**181,915**	**69**	**178**	**$20,388**	**3,289,144**	**275,892**	**61**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	3,023	$44,527			1,512	2,543	$27,239			1,411
Water Heater Storage	141	$4,377			141	181	$13,596			201
Air Conditioning Load Control	12	$1,272			8	264	$46,001			205
Space Heating Load Control (Interruptible)	1,014	$54,852			4,564	982	$55,566			4,905
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	12	$2,144			72	8	$2,266			53
Crop Drying										
Load Control	29	$1,502			58	29	$1,586			64
Irrigation										
Time of Use Pricing										
Commercial and Industrial Time-of-Day Price	2	$5,513				21	$19,036			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	93	$21,344				20	$4,532			
Expert Energy Services - C&I	2	$534				9	$1,134			
Energy Audit Services - Residential *	54	$15,872				6	$16,770			
IV. Educational & Research Programs										
Model Housing Education	220	$2,647				6,889	$18,582			
Member Information and Education	7,000	$26,644				7,008	$13,639			
Peak Alert	7,000									
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,000	$19,044				7,008	$16,982			
TOTAL	**28,658**	**$298,747**	**14,782,745**	**1,023,646**	**6,655**	**25,736**	**$299,043**	**6,678,042**	**529,304**	**6,967**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Allamakee-Clayton Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	36	$6,938	112,883	8,063	12	26	$4,940	74,406	5,315	9
ENERGY STAR Qualified Room Air Conditioner	25	$781	14,236	1,582	2	14	$350	7,972	886	1
Geothermal Heat Pump	25	$28,125	6,639,465	331,973	39	16	$15,900	4,249,258	212,463	27
Air Source Heat Pump	19	$8,550	2,238,493	149,233	19	12	$6,975	1,413,785	94,252	14
Heat Recovery Ventilators										
Residential Contractor Rebates						6	$813			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,000	$2,190	478,077	65,490	60					
Local CFL Rebate Program(s)	1,008	$2,520	481,902	66,014	60	822	$1,389	392,979	53,833	55
ENERGY STAR CFL/LED Fixtures						4	$20	8,791	440	0
T8 or better Lighting Fixtures	25	$313	17,294	1,055	0	344	$2,470	237,963	14,510	4
ENERGY STAR LED lighting	19	$48	25,435	1,413	1	90	$180	120,479	6,693	4
Exterior Lighting										
High Efficiency Exterior Lighting	28	$525	36,582	7,976	0	1	$15	2,426	495	0
LED Holiday Lighting	31	$310	28,904	2,409	8	13	$26	12,121	1,010	4
Residential Water Heating (low income included)										
High Efficiency Water Heater	63	$15,750	349,300	23,287	3	14	$2,950	77,622	5,175	1
Heat Pump Water Heater - (Integrated)	2	$750	46,220	3,852	0	17	$5,100	392,873	32,739	4
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0					
Flow Restrictors - Faucet	125	$156	417,083	46,343	3	6	$6	20,020	2,224	0
Flow Restrictors - Shower	65	$406	411,255	41,126	3	3	$15	18,981	1,898	0
Pipe Insulation	65	$270	115,801	7,720	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	189	$11,813	461,538	41,958	15	118	$2,950	288,156	26,196	10
ENERGY STAR Qualified Dishwasher	69	$2,156	89,304	8,119	6	104	$2,600	134,603	12,237	10
ENERGY STAR Qualified Refrigerator	113	$3,531	178,738	11,916	1	148	$3,700	234,099	15,607	2
ENERGY STAR Qualified Dehumidifier	19	$356	53,906	4,492	0	26	$650	73,766	6,147	1
ENERGY STAR Qualified Freezer	25	$781	27,889	1,859	0					
Appliance Recycling	19	$1,188	182,897	20,322	3	71	$1,775	671,085	74,837	14
Smart Strip	40	$250	44,400	4,440						
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	8	$6,000	266,400	8,880	1					
Additional Low Income										
Energy Efficiency Kits	31	$388	315,264	35,029	4					
Building Shell - Existing Home Only										
Weatherization Rebates	12	$3,000	456,410	15,820	1					
Residential Total	**3,062**	**$97,469**	**13,512,118**	**912,239**	**246**	**1,855**	**$52,824**	**8,431,385**	**566,957**	**160**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Allamakee-Clayton Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	111	$1,221	317,601	45,864	1	1,049	$5,456	1,214,843	218,990	3
Exterior Lighting										
High Efficiency Exterior Lighting	19	$356	21,185	4,323	0	6	$90	35,450	3,490	0
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0	6	$220	18,581	1,239	2
Geothermal Heat Pump	2	$2,250	531,157	26,558	30					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	1	$450	117,815	7,854	10	2	$225	176,723	11,782	16
Commercial Contractor Rebate (GS & AS)						1	$50			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$1,250	27,722	1,848	0	3	$375	16,633	1,109	0
Heat Pump Water Heater						2	$600	46,220	3,852	0
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$375	326,507	21,767	0	89	$225	1,099,986	73,332	7
Agricultural										
Dairy Pre-coolers Incentive	1	$625	147,103	9,807	5	3	$1,500	441,308	29,421	16
Dairy Heat Reclaimer	1	$375	165,951	11,063	5					
Livestock Ventilation Fans	8	$480	210,136	17,511	1	42	$1,514	223,217	18,601	6
Circulating Fans --- BESS Lab Ratings						50	$1,600	195,138	16,262	6
Scroll compressor (milk cooling)	3	$563	166,084	11,072	1	15	$450	830,419	55,361	7
Efficient Livestock Waterers	3	$188	28,611	2,384		38	$1,900	362,411	30,201	
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$1,460	466,200	31,080	16	1	$1,038	208,050	20,805	
Ag, Commercial and Industrial Total	**158**	**$9,718**	**2,529,168**	**191,340**	**69**	**1,306**	**$15,243**	**4,868,979**	**484,443**	**65**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	3,061	$46,753			1,530	2,369	$21,883			1,315
Water Heater Storage	148	$4,596			148	183	$10,774			203
Air Conditioning Load Control	13	$1,336			9	298	$36,451			232
Space Heating Load Control (Interruptible)	1,065	$57,594			4,793	980	$44,278			4,895
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	12	$2,252			72	8	$1,796			53
Crop Drying										
Load Control	30	$1,577			60	27	$1,257			60
Irrigation										
Time of Use Pricing						1	$1,796			
Commercial and Industrial Time-of-Day Price	3	$5,788				19	$15,083			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	101	$22,412				24	$3,591			
Expert Energy Services - C&I	2	$560				6	$2,496			
Energy Audit Services - Residential *	54	$16,665				5	$13,488			
IV. Educational & Research Programs										
Model Housing Education	230	$2,780				7,026	$14,724			
Member Information and Education	7,000	$27,976				7,026	$13,805			
Peak Alert	7,000									
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,000	$19,997				7,026	$17,695			
TOTAL	**28,939**	**$317,472**	**16,041,286**	**1,103,579**	**6,927**	**28,159**	**$267,184**	**13,300,364**	**1,051,400**	**6,982**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Allamakee-Clayton Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	39	$7,500	122,082	8,720	13	23	$4,186	74,250	5,304	9
ENERGY STAR Qualified Room Air Conditioner	27	$844	15,375	1,708	2	3	$88	1,708	190	0
Geothermal Heat Pump	27	$30,375	7,170,622	358,531	42	12	$16,041	3,186,943	159,347	21
Air Source Heat Pump	20	$9,000	2,356,308	157,087	20	22	$8,770	2,591,939	172,796	25
Heat Recovery Ventilators										
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,000	$2,190	478,077	65,490	60					
Local CFL Rebate Program(s)	1,088	$2,720	520,148	71,253	65	325	$378	155,375	21,284	22
ENERGY STAR CFL/LED Fixtures						537	$3,155	1,180,219	59,011	24
T8 or better Lighting Fixtures	27	$338	18,677	1,139	0	186	$1,269	128,666	7,845	2
ENERGY STAR LED lighting	20	$50	26,773	1,487	1	625	$2,179	836,663	46,481	28
Exterior Lighting										
High Efficiency Exterior Lighting	31	$581	41,010	8,927	0					
LED Holiday Lighting	34	$340	31,702	2,642	9					
Residential Water Heating (low income included)										
High Efficiency Water Heater	68	$17,000	377,023	25,135	3	9	$1,675	49,900	3,327	0
Heat Pump Water Heater - (Integrated)	2	$750	46,220	3,852	0	9	$3,173	207,992	17,333	2
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0					
Flow Restrictors - Faucet	68	$85	226,893	25,210	1	1	$1	3,337	371	0
Flow Restrictors - Shower	68	$425	430,236	43,024	3					
Pipe Insulation	70	$291	124,709	8,314	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	204	$12,750	498,168	45,288	16	80	$2,342	195,360	17,760	7
ENERGY STAR Qualified Dishwasher	75	$2,344	97,070	8,825	7	6	$176	7,766	706	1
ENERGY STAR Qualified Refrigerator	122	$3,813	192,974	12,865	1	95	$2,787	150,266	10,018	1
ENERGY STAR Qualified Dehumidifier	20	$375	56,743	4,729	0	14	$411	39,720	3,310	0
ENERGY STAR Qualified Freezer	27	$844	30,120	2,008	0					
Appliance Recycling	21	$1,313	200,769	22,308	4	41	$1,205	424,445	47,161	8
Smart Strip	45	$281	49,950	4,995						
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	9	$6,750	299,700	9,990	2	2	$1,175	66,600	2,220	0
Additional Low Income										
Energy Efficiency Kits	34	$425	345,774	38,419	4					
Building Shell - Existing Home Only										
Weatherization Rebates	15	$3,750	570,512	19,775	2					
Residential Total	**3,162**	**$105,507**	**14,350,078**	**953,590**	**259**	**1,990**	**$49,011**	**9,301,148**	**574,463**	**150**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Allamakee-Clayton Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	118	$1,308	342,220	49,182	1	1,517	$5,045	1,619,029	303,168	5
Exterior Lighting										
High Efficiency Exterior Lighting	21	$394	23,415	4,779	0	12	$212	79,414	7,219	
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0					
Geothermal Heat Pump	2	$2,250	531,157	26,558	30	5	$1,586	1,195,104	59,755	74
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	1	$450	117,815	7,854	10	1	$133	88,362	5,891	8
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$1,250	27,722	1,848	0					
Heat Pump Water Heater										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$375	326,507	21,767	0	29	$4,554	1,605,483	107,032	10
Agricultural										
Dairy Pre-coolers Incentive	5	$3,125	735,514	49,034	24					
Dairy Heat Reclaimer	5	$1,875	829,753	55,317	27					
Livestock Ventilation Fans	9	$540	236,403	19,700	1	6	$254	31,888	2,657	1
Circulating Fans --- BESS Lab Ratings						10	$611	47,952	3,996	1
Scroll compressor (milk cooling)	3	$563	166,084	11,072	1	1	$176	55,361	3,691	0
Efficient Livestock Waterers	3	$188	28,611	2,384		69	$4,054	658,061	54,838	
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$1,460	466,200	31,080	16	4	$15,376	6,187,480	618,748	0
Ag, Commercial and Industrial Total	**176**	**$13,901**	**3,834,498**	**280,782**	**111**	**1,653**	**$32,001**	**11,568,134**	**1,166,996**	**100**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	3,099	$49,090			1,550	2,540	$19,885			1,410
Water Heater Storage	156	$4,826			156	197	$9,926			219
Air Conditioning Load Control	14	$1,403			10	297	$33,583			231
Space Heating Load Control (Interruptible)	1,118	$60,474			5,032	989	$40,564			4,940
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	12	$2,364			72	8	$1,655			53
Crop Drying										
Load Control	31	$1,655			62	27	$1,158			60
Irrigation										
Time of Use Pricing						1	$1,655			
Commercial and Industrial Time-of-Day Price	3	$6,078				16	$13,895			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	109	$23,532				27	$12,241			
Expert Energy Services - C&I	2	$588				5	$2,482			
Energy Audit Services - Residential *	54	$17,498				2	$1,654			
IV. Educational & Research Programs										
Model Housing Education	240	$2,919				7,006	$13,564			
Member Information and Education	7,000	$29,375				7,006	$14,583			
Peak Alert	7,000									
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,000	$20,997				7,006	$17,583			
TOTAL	**29,176**	**$340,207**	**18,184,576**	**1,234,372**	**7,251**	**28,770**	**$265,440**	**20,869,282**	**1,741,459**	**7,162**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

Atchison-Holt Electric Cooperative

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In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required ... and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Atchison-Holt Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Atchison-Holt Electric Cooperative and other cooperatives with Iowa members. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group within AECI and were completed by a qualified independent third-party consultant.

Atchison-Holt Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Atchison-Holt Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Atchison-Holt Electric Cooperative.

Atchison-Holt Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Atchison-Holt Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. In addition, our residential energy audit program identifies areas for improvement within the home and offers a number of direct install measures at the time of audit including low-flow showerheads, pipe and water heater wrap kits and demonstrations on caulking and sealing.

Atchison-Holt Electric Cooperative also offers prescriptive lighting incentives for small commercial member-consumers. For the large industrial member-consumers of Atchison-Holt Electric Cooperative, we offer an energy audit program designed to highlight areas where large customers can reduce their energy use and costs. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom audit program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Atchison-Holt Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Atchison-Holt Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Atchison-Holt Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, on our Facebook page, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to "get the facts" and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment-the cost to operate the product over its lifetime (for example, geothermal heat pumps typically have a high up-front capital cost, but have lower operating costs). As a member of the National Rural Electric Cooperative Association (NRECA), Atchison-Holt Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

The programs that we offer were reviewed or designed during the assessment of potential process in which Atchison-Holt Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5-year plan for Atchison-Holt Electric Cooperative. Atchison-Holt Electric Cooperative has proceeded into a new 5-year plan and will review and evaluate the results from this 5-year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Atchison-Holt Electric Cooperative	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.						6	$27,741	1,088,873	2,310,533	584,273
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	5	$12,190	589,077	117,815	39,272	1	$450	117,815	31,416	7,854
Residential Lighting (low income included)											
Interior Lighting											
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	75	$1,909	35,856	14,735	4,912	1,200	$6,393	573,692	392,940	78,588
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	30	$2,201	44,955	8,991	2,997	14	$1,983	42,590	11,914	2,840
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	25	$1,476	83,417	27,806	9,269					
Flow Restrictors - Shower	Incentive for low-flow shower head.	25	$3,418	158,175	47,453	15,818					
Tank Insulation	Incentive for water heater tank insulation.	25	$1,917	42,735	12,821	4,274					
Pipe Insulation	Incentive for water pipe insulation.	25	$770	44,539	8,908	2,969					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	95	$13,119	231,990	63,270	21,090					
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	60	$4,211	77,656	21,179	7,060					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	220	$190,319	11,168,820	1,130,518	376,839					
Residential Total		**585**	**$231,530**	**12,477,219**	**1,453,495**	**484,498**	**1,221**	**$36,567**	**1,822,970**	**2,746,803**	**673,555**
Percentage of 5 year plan goal - Residential								**16%**	**15%**		**139%**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	15	$7,186	16,406	9,391	3,130					
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	5	$7,354	86,802	13,020	4,340					
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	5	$6,380	360,889	72,178	24,059					
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	5	$12,724	735,514	147,103	49,034					
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	5	$1,165	26,573	6,643	2,214					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	10	$51,753	2,997,000	599,400	199,800					
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	5	$5,318	276,806	55,361	18,454					
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	5	$18,319	1,110,216	195,921	65,307					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		5	$59,632	2,220,000	666,000	222,000					
Ag, Commercial and Industrial Total		**60**	**$169,831**	**7,830,206**	**1,765,017**	**588,339**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**0%**	**0%**		**0%**
II. Demand Response Programs											
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	10	$2,000								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	10	$30,000								
Energy Audit Services - Residential *	Energy Audit Services - Residential	30	$3,000								
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	1,250	$2,500								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						5,778	$9,977			
TOTAL		**1,945**	**$438,861**	**20,307,425**	**3,218,512**	**1,072,837**	**6,999**	**$46,544**	**1,822,970**	**2,746,803**	**673,555**
Percentage of 5 year plan goal achieved								**11%**	**9%**		**63%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Atchison-Holt Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
Geothermal Heat Pump						2	$15,457	531,157	26,558	3
Air Source Heat Pump	1	$2,438	117,815	7,854	1					
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	15	$382	7,171	982	1	1,200	$6,393	573,692	78,588	80
Residential Water Heating (low income included)										
High Efficiency Water Heater	6	$440	8,991	599	0	7	$1,608	24,242	1,616	0
Flow Restrictors - Faucet	5	$295	16,683	1,854	0					
Flow Restrictors - Shower	5	$684	31,635	3,164	0					
Tank Insulation	5	$383	8,547	855	0					
Pipe Insulation	5	$154	8,908	594	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	19	$2,624	46,398	4,218	2					
ENERGY STAR Qualified Dishwasher	12	$842	15,531	1,412	1					
Building Shell - Existing Home Only										
Weatherization Rebates	44	$38,064	2,233,764	75,368	5					
Residential Total	**117**	**$46,306**	**2,495,444**	**96,900**	**10**	**1,209**	**$23,458**	**1,129,092**	**106,762**	**84**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	3	$1,437	3,281	626	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	2	$10,351	599,400	39,960	8					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12					
Ag, Commercial and Industrial Total	**12**	**$33,966**	**1,566,041**	**117,668**	**28**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$400								
Expert Energy Services - C&I	2	$6,000								
Energy Audit Services - Residential *	6	$600								
IV. Educational & Research Programs										
Member Information and Education	250	$500								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						1,187	$2,000			
TOTAL	**389**	**$87,772**	**4,061,485**	**214,567**	**38**	**2,396**	**$25,458**	**1,129,092**	**106,762**	**84**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Atchison-Holt Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
Geothermal Heat Pump						2	$4,500	26,558	531,157	3
Air Source Heat Pump	1	$2,438	117,815	7,854	1	1	$450	117,815	7,854	1
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	15	$382	7,171	982	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	6	$440	8,991	599	0	2	$100	6,926	462	
Flow Restrictors - Faucet	5	$295	16,683	1,854	0					
Flow Restrictors - Shower	5	$684	31,635	3,164	0					
Tank Insulation	5	$383	8,547	855	0					
Pipe Insulation	5	$154	8,908	594	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	19	$2,624	46,398	4,218	2					
ENERGY STAR Qualified Dishwasher	12	$842	15,531	1,412	1					
Building Shell - Existing Home Only										
Weatherization Rebates	44	$38,064	2,233,764	75,368	5					
Residential Total	**117**	**$46,306**	**2,495,444**	**96,900**	**10**	**5**	**$5,050**	**151,299**	**539,473**	**4**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	3	$1,437	3,281	626	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	2	$10,351	599,400	39,960	8					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12					
Ag, Commercial and Industrial Total	**12**	**$33,966**	**1,566,041**	**117,668**	**28**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$400								
Expert Energy Services - C&I	2	$6,000								
Energy Audit Services - Residential *	6	$600								
IV. Educational & Research Programs										
Member Information and Education	250	$500								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						1,157	$1,760			
TOTAL	**389**	**$87,772**	**4,061,485**	**214,567**	**38**	**1,162**	**$6,810**	**151,299**	**539,473**	**4**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Atchison-Holt Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
Geothermal Heat Pump						1	$2,250	265,579	13,279	2
Air Source Heat Pump	1	$2,438	117,815	7,854	1					
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	15	$382	7,171	982	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	6	$440	8,991	599	0	2	$100	6,926	462	
Flow Restrictors - Faucet	5	$295	16,683	1,854	0					
Flow Restrictors - Shower	5	$684	31,635	3,164	0					
Tank Insulation	5	$383	8,547	855	0					
Pipe Insulation	5	$154	8,908	594	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	19	$2,624	46,398	4,218	2					
ENERGY STAR Qualified Dishwasher	12	$842	15,531	1,412	1					
Building Shell - Existing Home Only										
Weatherization Rebates	44	$38,064	2,233,764	75,368	5					
Residential Total	**117**	**$46,306**	**2,495,444**	**96,900**	**10**	**3**	**$2,350**	**272,505**	**13,741**	**2**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	3	$1,437	3,281	626	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	2	$10,351	599,400	39,960	8					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12					
Ag, Commercial and Industrial Total	**12**	**$33,966**	**1,566,041**	**117,668**	**28**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$400								
Expert Energy Services - C&I	2	$6,000								
Energy Audit Services - Residential *	6	$600								
IV. Educational & Research Programs										
Member Information and Education	250	$500								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						1,127	$1,952			
TOTAL	**389**	**$87,772**	**4,061,485**	**214,567**	**38**	**1,130**	**$4,302**	**272,505**	**13,741**	**2**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Atchison-Holt Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
Geothermal Heat Pump										
Air Source Heat Pump	1	$2,438	117,815	7,854	1					
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	15	$382	7,171	982	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	6	$440	8,991	599	0	3	$175	4,496	300	0
Flow Restrictors - Faucet	5	$295	16,683	1,854	0					
Flow Restrictors - Shower	5	$684	31,635	3,164	0					
Tank Insulation	5	$383	8,547	855	0					
Pipe Insulation	5	$154	8,908	594	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	19	$2,624	46,398	4,218	2					
ENERGY STAR Qualified Dishwasher	12	$842	15,531	1,412	1					
Building Shell - Existing Home Only										
Weatherization Rebates	44	$38,064	2,233,764	75,368	5					
Residential Total	**117**	**$46,306**	**2,495,444**	**96,900**	**10**	**3**	**$175**	**4,496**	**300**	**0**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	3	$1,437	3,281	626	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	2	$10,351	599,400	39,960	8					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12					
Ag, Commercial and Industrial Total	**12**	**$33,966**	**1,566,041**	**117,668**	**28**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$400								
Expert Energy Services - C&I	2	$6,000								
Energy Audit Services - Residential *	6	$600								
IV. Educational & Research Programs										
Member Information and Education	250	$500								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						1,150	$2,164			
TOTAL	**389**	**$87,772**	**4,061,485**	**214,567**	**38**	**1,153**	**$2,339**	**4,496**	**300**	**0**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Atchison-Holt Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
Geothermal Heat Pump						1	$5,534	265,579	13,279	2
Air Source Heat Pump	1	$2,438	117,815	7,854	1					
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	15	$382	7,171	982	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	6	$440	8,991	599	0					
Flow Restrictors - Faucet	5	$295	16,683	1,854	0					
Flow Restrictors - Shower	5	$684	31,635	3,164	0					
Tank Insulation	5	$383	8,547	855	0					
Pipe Insulation	5	$154	8,908	594	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	19	$2,624	46,398	4,218	2					
ENERGY STAR Qualified Dishwasher	12	$842	15,531	1,412	1					
Building Shell - Existing Home Only										
Weatherization Rebates	44	$38,064	2,233,764	75,368	5					
Residential Total	**117**	**$46,306**	**2,495,444**	**96,900**	**10**	**1**	**$5,534**	**265,579**	**13,279**	**2**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	3	$1,437	3,281	626	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	2	$10,351	599,400	39,960	8					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12					
Ag, Commercial and Industrial Total	**12**	**$33,966**	**1,566,041**	**117,668**	**28**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$400								
Expert Energy Services - C&I	2	$6,000								
Energy Audit Services - Residential *	6	$600								
IV. Educational & Research Programs										
Member Information and Education	250	$500								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						1,157	$2,101			
TOTAL	**389**	**$87,772**	**4,061,485**	**214,567**	**38**	**1,158**	**$7,635**	**265,579**	**13,279**	**2**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Boone Valley Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Boone Valley Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Boone Valley Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Boone Valley Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Boone Valley Electric Cooperative.

Boone Valley Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Boone Valley Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Boone Valley Electric Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can

contribute effectively to the development of their cooperatives. To that end, Boone Valley Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Boone Valley Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Boone Valley Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage.

This filing marks the end of this 5 year plan for Boone Valley Electric Cooperative. Boone Valley Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Boone Valley Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.							$17			
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.							$254			
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	5	$3,125	589,077	117,815	39,272		$128			
Heat Recovery Ventilators	Rebate for heat recovery ventilators.							$4			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	267	$585	127,647	46,367	17,486					
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	120	$450	57,369	20,957	7,859	257	$853	122,866	70,664	16,831
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	20	$150	13,835	2,278	844		$5			
ENERGY STAR LED lighting	Rebate for LED lighting.	10	$38	13,387	1,785	744					
Exterior Lighting											
LED Holiday Lighting	Rebate for holiday lighting.	21	$53	19,580	4,507	1,632		$2			
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	15	$3,125	72,761	14,552	4,851	3	$566	10,390	2,771	693
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.							$1			
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	35	$293	116,783	38,928	12,976	4	$27	13,347	7,415	1,483
Flow Restrictors - Shower	Incentive for low-flow shower head.	20	$335	126,540	37,962	12,654	2	$27	12,654	6,327	1,265
Tank Insulation	Incentive for water heater tank insulation.	5	$31	8,547	2,564	855					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.							$34			
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	8	$250	10,354	2,471	941		$9			
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	6	$188	9,491	1,687	633		$15			
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	9	$281	10,040	1,859	669		$3			
Appliance Recycling	Incentives for appliance recycling.	10	$550	89,361	29,787	9,929		$40			
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.							$5			
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.							$7			
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	10	$3,492	356,427	29,966	12,826		$60			
Residential Total		**561**	**$12,945**	**1,621,197**	**353,484**	**124,169**	**266**	**$2,057**	**159,256**	**87,176**	**20,272**
Percentage of 5 year plan goal - Residential								**16%**	**10%**		**16%**
II. Demand Response Programs											
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural							$390			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.							$747			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.						110	$163			
Member Information and Education	Member Information and Education						221	$3,083			
Living with Energy in Iowa	Living with Energy in Iowa magazine.						332	$658			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						559	$2,025			
TOTAL		**561**	**$12,945**	**1,621,197**	**353,484**	**124,169**	**1,488**	**$9,123**	**159,256**	**87,176**	**20,272**
Percentage of 5 year plan goal achieved								**70%**	**10%**		**16%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Boone Valley Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning							3			
Geothermal Heat Pump							$48			
Air Source Heat Pump	1	$625	117,815	7,854	1		$20			
Heat Recovery Ventilators							$1			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	35	$77	16,733	2,292	2					
Local CFL Rebate Program(s)	16	$60	7,649	1,048	1	51	$80	24,382	3,340	3
T8 or better Lighting Fixtures	3	$23	2,075	127	0					
ENERGY STAR LED lighting	1	$4	1,339	74	0					
Exterior Lighting										
LED Holiday Lighting	3	$8	2,797	233	1		$1			
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$625	14,552	970	0	2	$219	6,926	462	0
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	7	$59	23,357	2,595	0	4	$21	13,347	1,483	0
Flow Restrictors - Shower	4	$67	25,308	2,531	0	2	$21	12,654	1,265	0
Tank Insulation	1	$6	1,709	171	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer							$6			
ENERGY STAR Qualified Dishwasher	1	$31	1,294	118	0		$2			
ENERGY STAR Qualified Refrigerator	1	$31	1,582	105	0		$3			
ENERGY STAR Qualified Freezer	1	$31	1,116	74	0					
Appliance Recycling	2	$110	17,872	1,986	0		$7			
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits							$1			
Building Shell - Existing Home Only										
Weatherization Rebates							$9			
Residential Total	**79**	**$1,756**	**235,198**	**20,179**	**6**	**59**	**$442**	**57,309**	**6,550**	**3**
Percentage of 5 year plan goal - Residential										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Expert Energy Services - C&I							$357			
IV. Educational & Research Programs										
Model Housing Education							$132			
Member Information and Education						111	$2,085			
Living with Energy in Iowa						111	$233			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						111	$351			
TOTAL	**79**	**$1,756**	**235,198**	**20,179**	**6**	**392**	**$3,600**	**57,309**	**6,550**	**3**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Boone Valley Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning							$14			
Geothermal Heat Pump							$206			
Air Source Heat Pump	1	$625	117,815	7,854	1		$108			
Heat Recovery Ventilators							$3			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	44	$96	21,035	2,882	3					
Local CFL Rebate Program(s)	20	$75	9,562	1,310	1	206	$773	98,484	13,491	12
T8 or better Lighting Fixtures	3	$23	2,075	127	0		$5			
ENERGY STAR LED lighting	1	$4	1,339	74	0					
Exterior Lighting										
LED Holiday Lighting	4	$10	3,730	311	1		$1			
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$625	14,552	970	0		$97			
Heat Pump Water Heater - (Integrated)							$1			
Flow Restrictors - Faucet	7	$59	23,357	2,595	0		$6			
Flow Restrictors - Shower	4	$67	25,308	2,531	0		$6			
Tank Insulation	1	$6	1,709	171	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer							$28			
ENERGY STAR Qualified Dishwasher	1	$31	1,294	118	0		$7			
ENERGY STAR Qualified Refrigerator	1	$31	1,582	105	0		$12			
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0		$3			
Appliance Recycling	2	$110	17,872	1,986	0		$33			
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *							$5			
Additional Low Income										
Energy Efficiency Kits							$6			
Building Shell - Existing Home Only										
Weatherization Rebates	1	$630	64,702	2,157			$51			
Residential Total	**95**	**$2,455**	**308,163**	**23,339**	**7**	**206**	**$1,365**	**98,484**	**13,491**	**12**
Percentage of 5 year plan goal - Residential										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Expert Energy Services - C&I										
IV. Educational & Research Programs										
Model Housing Education										
Member Information and Education										
Living with Energy in Iowa						111	$220			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						111	$375			
TOTAL	**95**	**$2,455**	**308,163**	**23,339**	**7**	**428**	**$1,960**	**98,484**	**13,491**	**12**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Boone Valley Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning										
Geothermal Heat Pump										
Air Source Heat Pump	1	$625	117,815	7,854	1					
Heat Recovery Ventilators										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	53	$116	25,338	3,471	3					
Local CFL Rebate Program(s)	24	$90	11,474	1,572	1					
T8 or better Lighting Fixtures	4	$30	2,767	169	0					
ENERGY STAR LED lighting	2	$8	2,677	149	0					
Exterior Lighting										
LED Holiday Lighting	4	$10	3,730	311	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$625	14,552	970	0					
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	7	$59	23,357	2,595	0					
Flow Restrictors - Shower	4	$67	25,308	2,531	0					
Tank Insulation	1	$6	1,709	171	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer										
ENERGY STAR Qualified Dishwasher	2	$63	2,589	235	0					
ENERGY STAR Qualified Refrigerator	1	$31	1,582	105	0					
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0					
Appliance Recycling	2	$110	17,872	1,986	0					
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	3	$954	97,242	3,556	0					
Residential Total	**113**	**$2,856**	**350,242**	**25,824**	**8**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Residential										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Expert Energy Services - C&I										
IV. Educational & Research Programs										
Model Housing Education						110	$31			
Member Information and Education						110	$998			
Living with Energy in Iowa						110	$205			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						110	$398			
TOTAL	**113**	**$2,856**	**350,242**	**25,824**	**8**	**440**	**$1,632**	**0**	**0**	**0**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Boone Valley Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning										
Geothermal Heat Pump										
Air Source Heat Pump	1	$625	117,815	7,854	1					
Heat Recovery Ventilators										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	63	$138	30,119	4,126	4					
Local CFL Rebate Program(s)	28	$105	13,386	1,834	2					
T8 or better Lighting Fixtures	5	$38	3,459	211	0					
ENERGY STAR LED lighting	3	$11	4,016	223	0					
Exterior Lighting										
LED Holiday Lighting	5	$13	4,662	389	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$625	14,552	970	0	1	$250	3,463	231	0
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	7	$59	23,357	2,595	0					
Flow Restrictors - Shower	4	$67	25,308	2,531	0					
Tank Insulation	1	$6	1,709	171	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer										
ENERGY STAR Qualified Dishwasher	2	$63	2,589	235	0					
ENERGY STAR Qualified Refrigerator	1	$31	1,582	105	0					
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0					
Appliance Recycling	2	$110	17,872	1,986	0					
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	3	$954	97,242	3,556	0					
Residential Total	**130**	**$2,906**	**359,898**	**26,935**	**9**	**1**	**$250**	**3,463**	**231**	**0**
Percentage of 5 year plan goal - Residential										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Expert Energy Services - C&I										
IV. Educational & Research Programs										
Model Housing Education										
Member Information and Education										
Living with Energy in Iowa										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						113	$442			
TOTAL	**130**	**$2,906**	**359,898**	**26,935**	**9**	**114**	**$692**	**3,463**	**231**	**0**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Boone Valley Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning										
Geothermal Heat Pump										
Air Source Heat Pump	1	$625	117,815	7,854	1					
Heat Recovery Ventilators										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	72	$158	34,422	4,715	4					
Local CFL Rebate Program(s)	32	$120	15,298	2,096	2					
T8 or better Lighting Fixtures	5	$38	3,459	211	0					
ENERGY STAR LED lighting	3	$11	4,016	223	0					
Exterior Lighting										
LED Holiday Lighting	5	$13	4,662	389	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$625	14,552	970	0					
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	7	$59	23,357	2,595	0					
Flow Restrictors - Shower	4	$67	25,308	2,531	0					
Tank Insulation	1	$6	1,709	171	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer										
ENERGY STAR Qualified Dishwasher	2	$63	2,589	235	0					
ENERGY STAR Qualified Refrigerator	2	$63	3,164	211	0					
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0					
Appliance Recycling	2	$110	17,872	1,986	0					
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	3	$954	97,242	3,556	0					
Residential Total	**144**	**$2,972**	**367,695**	**27,892**	**10**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Residential										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural							$390			
Expert Energy Services - C&I							$390			
IV. Educational & Research Programs										
Model Housing Education										
Member Information and Education										
Living with Energy in Iowa										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						114	$459			
TOTAL	**144**	**$2,972**	**367,695**	**27,892**	**10**	**114**	**$1,239**	**0**	**0**	**0**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

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Our energy-efficiency programs were reviewed or designed during the assessment of potential process in which BCREC participated.

The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for BCREC and included information for each electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including BCREC, which developed a cost-effective, energy-efficiency program to meet the needs of our member-consumers.

BCREC offers all classes of residential member-consumers rebates for a number of energy-saving items, including lighting, heating and cooling equipment, water heaters, and appliances. We also offer similar programs for the small commercial member-consumers but alter them to allow for equipment used in a commercial setting. For the large industrial member-consumers of BCREC, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, rebates are a challenge to design because each is unique. We work directly with these member-consumers to determine what measures would offer the best savings in energy

efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. BCREC also offers energy audits for all retail member-consumers. One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, BCREC is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Our energy-efficiency education encourages members to consider not just the initial cost of a product, but also the second investment—the cost to operate the product over its lifetime.

Prior to inception, we began educating our membership on energy-efficiency rebates through our newsletters; our online newsletter, Smart Choices; and on our website. We continue to educate through these mediums. Because of this knowledge of our programs, the rebates have been accepted and well received.

At BCREC, we know that continued education is the key to successful energy savings. When our members make a purchase, we want them to be thinking about energy efficiency. We want it to be second nature, because we feel it's the right thing to do.

One of the advantages in being a member-owned cooperative, governed by an elected board, is the ability to be flexible. Our decisions are member driven. This allows us to be service-oriented. Our member-consumers are BCREC's priority. We are committed to educating our members to help improve their quality of life through our energy-efficiency programs; brochures available at our reception area; website; newsletter; annual meeting; online newsletter; Smart Choices; and Facebook page.

At BCREC, our contractors are a part of our energy-efficiency program. We take every opportunity to educate them, as well. To accomplish this, our website has "Contractor Corner," a page devoted to educating them on our rebates, energy-efficient water heaters, clearances, and other relevant utility information. As a thank you to our contractors, we hold an every-other-year contractors' appreciation supper. We also use that as an opportunity to inform them of upcoming changes to our programs. In addition, we encourage them to attend the Momentum is Building conference, at which they can earn continuing education units for electric or HVAC licenses, and the Build-it-Right conference (also for member-consumers), to learn about building energy-efficient homes and buildings.

Through our contact with our members, we know that many of them deal with unique circumstances. Our energy-efficiency program takes those into account. For example, our insulation and weatherization rebates ask our members to specify if they have electric heat and central air conditioning, electric heat with no central air conditioning, and no electric heat with central air conditioning. We didn't want our members to not be able to take advantage of the rebate because their heating and cooling system did not meet rigid criteria. For our members building a new home, we have an all-inclusive rebate packet that includes information on everything a new home requires that we rebate and also how to become a Touchstone Energy (TSE) Home, which involves a home being certified by a Home Energy Rating System (HERS) rater. HERS measures the energy efficiency of a residential building and compares that building's performance against a standard. TSE homes are the most energy-efficient homes on our lines. In addition, we understand that not all of our members have the

same resources. Each fall, before winter moratorium goes into effect on November 1, we supply our community action agencies with winterizing kits for our members qualifying for heat assistance. And, our RECare program involves members helping members with their heating bills.

As a member of the National Rural Electric Cooperative Association (NRECA), Butler County Rural Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies. To help our member-consumers as much as possible, BCREC participates in pilot projects. To that end, we conducted a heat pump water heater study comparing three types of heat pump water heaters. We wanted to be able to best educate our members on their options when it comes to water-heating efficiency. The water heaters included two traditional models and an add-on. When discussing possibilities with our members, we are able to provide them with a chart listing 15 tested variables to help them choose the best product for their lifestyles.

Another project BCREC implemented involved four of our municipals. We invited these communities to participate in a friendly “competition.” This is a community-led program in which each community further educated their residents on energy efficiency and conservation and as a result, reduced energy use. This program put energy efficiency in the hands of our municipals.

To ensure BCREC is providing the best service to our members, we frequently gauge their satisfaction through surveys. We have three surveys that we use on a rotating basis. With the results of these surveys, BCREC is better able to review goals and tailor future programs to enhance our member-consumers’ experience.

All programs have challenges, and BCREC’s rebate program is no different. Lesser-used rebates include our agriculture and heat recovery ventilator rebates. We have also found that our small commercial classes are not using the rebates to the extent we would like to see. To encourage use of these rebates, we have implemented marketing and direct mail campaigns and included articles in our newsletter to show the value of these rebates to our residential, agriculture, and small commercial classes.

This filing marks the end of this 5 year plan for BCREC. BCREC has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Butler County Rural Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	70	$12,500	278,166	59,607	19,869	51	$11,338	218,136	46,341	15,581
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	100	$173,750	26,557,860	3,983,679	1,327,893	97	$208,648	25,761,124	4,209,420	1,288,056
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	100	$62,500	11,781,540	2,356,308	785,436	130	$116,499	15,316,002	3,055,343	1,021,066
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	70	$10,938	876,456	125,208	43,823	29	$4,489	363,103	58,847	18,155
Residential Contractor Rebates	Incentive for heat pump installs						90	$60,082			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	11,000	$24,090	5,258,847	2,095,680	720,390	9,647	$32,824	4,612,008	1,788,007	631,782
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	3,500	$13,125	1,673,270	622,155	229,215	17,514	$62,620	8,373,040	4,779,330	1,146,992
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						128	$764	281,318	14,066	14,066
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	585	$4,388	415,324	75,974	25,325	438	$3,908	354,377	62,062	21,609
ENERGY STAR LED lighting	Rebate for LED lighting.	1,250	$4,688	1,673,325	278,888	92,963	865	$5,852	1,157,940	109,251	64,330
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)						42	$1,425	206,853	41,371	41,371
LED Holiday Lighting	Rebate for holiday lighting.	2,000	$5,000	1,864,800	427,350	155,400	1,258	$6,766	1,172,959	316,472	97,747
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	508	$89,000	2,183,881	435,575	145,592	531	$161,449	2,257,291	428,130	150,486
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.							$119			
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.						6	$2,647	138,661	36,592	11,555
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.							$1			
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	1,258	$59,076	4,197,518	1,397,690	466,391	1,151	$18,430	3,840,496	1,327,618	426,721
Flow Restrictors - Shower	Incentive for low-flow shower head.	758	$35,596	4,795,866	1,436,229	479,587	613	$17,163	3,878,451	1,167,967	387,846
Pipe Insulation	Incentive for water pipe insulation.	758	$35,596	1,350,415	269,608	90,028	288	$1,362	513,086	171,029	34,206
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	150	$9,750	366,300	88,800	33,300	365	$28,349	891,330	263,070	81,030
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	85	$2,656	110,012	25,885	10,001	241	$9,332	311,917	90,478	28,355
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	220	$6,875	347,985	63,797	23,199	379	$14,536	599,484	132,656	39,966
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	170	$5,313	189,644	33,467	12,643	94	$3,434	104,861	20,450	6,990
Appliance Recycling	Incentives for appliance recycling.						412	$50,226	3,317,144	1,156,207	373,200
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.						10	$11,511	333,000	37,740	11,100
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	500	$12,500	5,084,910	1,694,970	564,990	235	$23,643	2,389,907	915,285	265,546
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	574	$238,430	18,220,101	1,632,448	643,568	199	$72,609	7,584,974	835,808	257,149
Residential Total		**23,656**	**$805,769**	**87,226,219**	**17,103,317**	**5,869,611**	**34,813**	**$930,025**	**83,977,463**	**21,063,540**	**6,434,904**
Percentage of 5 year plan goal - Residential								**115%**	**96%**		**110%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Butler County Rural Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.						348	$612	189,123	179,793	52,534
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	50	$4,500	281,624	109,724	36,575	5,583	$58,107	9,415,914	4,091,749	1,360,522
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	5	$8,688	86,802	13,020	4,340					
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	50	$12,500	277,223	55,445	18,482					
Ag/Commercial & Industrial Motors											
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.						104	$57,045	14,718,134	1,176,037	981,209
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	10	$6,250	1,471,028	294,206	98,069	1	$500	147,103	9,807	9,807
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	10	$1,250	1,659,506	331,901	110,634					
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	150	$4,500	779,220	194,805	64,935					
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	5	$3,125	276,806	55,361	18,454					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	50	$3,125	476,856	119,214	39,738	5	$310	47,686	13,511	3,974
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	50	$188	33,522	25,142	8,381					
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	50	$1,563	100,455	30,137	10,046					
Hog Farrowing - Double Crate Heating Pads(<=170W)	Rebate for double crate heating pads.	50	$3,125	200,910	60,273	20,091					
Ag, Commercial and Industrial Total		**480**	**$48,813**	**5,643,950**	**1,289,226**	**429,742**	**6,041**	**$116,574**	**24,517,959**	**5,470,897**	**2,408,046**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**239%**	**434%**		**560%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.							$8,601			
Water Heater Storage	Water heater storage.	510	$23,171				477	$24,191			
Space Heating Load Control (Interruptible)	Load control for space heating.							$5,734			
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	Dual fuel for space heating and air conditioning.	235	$9,259				237	$8,732			
Irrigation											
Time of Use Pricing	Irrigation time of use prices.	30	$7,054				54	$41,454			
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price	75	$18,408				93	$32,788			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	50	$30,106					$26,574			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	150	$60,212				31	$68,643			
Energy Audit Services - Residential *	Energy Audit Services - Residential	250	$28,006				243	$12,089			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	45	$34,705				21,185	$12,167			
Member Information and Education	Member Information and Education	25,240	$41,660				21,185	$203,672			
Peak Alert	Peak Alert	25,240	$320								
Living with Energy in Iowa	Living with Energy in Iowa magazine.	25,240	$30,845				21,185	$60,778			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	25,240	$64,335				21,185	$89,892			
TOTAL		**126,441**	**$1,202,662**	**92,870,169**	**18,392,543**	**6,299,353**	**126,729**	**$1,641,913**	**108,495,422**	**26,534,437**	**8,842,950**
Percentage of 5 year plan goal achieved								**137%**	**117%**		**140%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Butler County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	14	$2,500	55,633	3,974	4	9	1,815	37,296	2,664	3
Geothermal Heat Pump	20	$34,750	5,311,572	265,579	31	25	$46,577	6,639,465	331,973	43
Air Source Heat Pump	20	$12,500	2,356,308	157,087	20	23	$16,421	2,709,754	180,650	26
Heat Recovery Ventilators	10	$1,563	125,208	6,260		9	$1,142	112,687	5,634	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,000	$4,380	956,154	130,980	120	1,225	$4,285	585,644	80,225	82
Local CFL Rebate Program(s)	500	$1,875	239,039	32,745	30	8,888	$33,439	4,249,148	582,075	592
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	117	$878	83,065	5,065	2	31	$266	21,444	1,308	0
ENERGY STAR LED lighting	250	$938	334,665	18,593	10		$4			
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	300	$750	279,720	23,310	75	302	$1,581	281,585	23,465	84
Residential Water Heating (low income included)										
High Efficiency Water Heater	100	$17,500	429,570	28,638	4	84	$21,998	345,021	23,001	3
Heat Pump Water Heater - (Add-On)							$7			
Heat Pump Water Heater - (Integrated)						1	$414	23,110	1,926	0
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	250	$11,740	834,165	92,685	5	288	$877	960,958	106,773	6
Flow Restrictors - Shower	150	$7,044	949,050	94,905	8	144	$877	911,088	91,109	8
Pipe Insulation	150	$7,044	267,233	17,816	3	288		513,086	34,206	6
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	20	$1,300	48,840	4,440	2	92	$6,296	224,664	20,424	8
ENERGY STAR Qualified Dishwasher	10	$313	12,943	1,177	1	57	$1,952	73,773	6,707	6
ENERGY STAR Qualified Refrigerator	35	$1,094	55,361	3,691	0	95	$3,227	150,266	10,018	1
ENERGY STAR Qualified Freezer	20	$625	22,311	1,487	0	16	$538	17,849	1,190	0
Appliance Recycling						85	$7,219	581,535	66,317	18
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						1	$1,289	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits	100	$2,500	1,016,982	112,998	13	80	$4,993	813,586	90,398	12
Building Shell - Existing Home Only										
Weatherization Rebates	63	$25,721	1,959,611	69,416	4	57	$16,147	2,203,295	74,540	6
Residential Total	**4,129**	**$135,013**	**15,337,429**	**1,070,845**	**331**	**11,800**	**$171,363**	**21,488,555**	**1,735,714**	**904**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Butler County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	10	$900	56,325	7,315	0	690	$8,505	3,673,689	477,102	8
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1					
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive										
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10					
Dairy Heat Reclaimer	2	$250	331,901	22,127	11					
Livestock Ventilation Fans	30	$900	155,844	12,987	4					
Scroll compressor (milk cooling)	1	$625	55,361	3,691	0					
Efficient Livestock Waterers	10	$625	95,371	7,948		3	$210	28,611	2,384	
Hog Farrowing - Heat Lamps (<= 175W)	10	$38	6,704	1,676						
Hog Farrowing - Single Crate Heating Pads (<=85W)	10	$313	20,091	2,009						
Hog Farrowing - Double Crate Heating Pads(<=170W)	10	$625	40,182	4,018						
Ag, Commercial and Industrial Total	**96**	**$9,763**	**1,128,790**	**85,948**	**26**	**693**	**$8,715**	**3,702,300**	**479,487**	**8**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control										
Water Heater Storage	102	$4,364			102	103	$3,523			114
Space Heating Load Control (Interruptible)										
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	47	$1,744			282	50	$2,460			333
Irrigation										
Time of Use Pricing	6	$1,329			40	6	$5,431			44
Commercial and Industrial Time-of-Day Price	15	$3,467				21	$5,903			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$5,671								
Expert Energy Services - C&I	30	$11,341				21	$16,754			
Energy Audit Services - Residential *	50	$5,275				60	$1,432			
IV. Educational & Research Programs										
Model Housing Education	9	$6,941				4,263	$3,167			
Member Information and Education	5,028	$8,332				4,263	$79,737			
Peak Alert	5,028	$64								
Living with Energy in Iowa	5,028	$6,169				4,263	$12,766			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,028	$12,867				4,263	$15,774			
TOTAL	**24,606**	**$212,340**	**16,466,219**	**1,156,793**	**780**	**29,806**	**$327,024**	**25,190,855**	**2,215,200**	**1,404**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Butler County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	14	$2,500	55,633	3,974	4	12	$2,624	51,795	3,699	5
Geothermal Heat Pump	20	$34,750	5,311,572	265,579	31	25	$55,913	6,639,465	331,973	43
Air Source Heat Pump	20	$12,500	2,356,308	157,087	20	26	$23,606	3,063,200	204,213	29
Heat Recovery Ventilators	15	$2,344	187,812	9,391		5	$693	62,604	3,130	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,100	$4,599	1,003,962	137,529	126	1,954	$7,566	934,162	127,967	130
Local CFL Rebate Program(s)	600	$2,250	286,846	39,294	36	3,302	$19,826	1,578,610	216,248	220
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	117	$878	83,065	5,065	2	163	$1,270	120,674	7,359	2
ENERGY STAR LED lighting	250	$938	334,665	18,593	10	67	$290	89,690	4,983	3
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	350	$875	326,340	27,195	88	343	$1,889	319,813	26,651	95
Residential Water Heating (low income included)										
High Efficiency Water Heater	102	$17,875	438,578	29,239	4	88	$18,083	373,443	24,896	4
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)						2	$772	46,220	3,852	
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	252	$11,834	840,838	93,426	5	176	$3,112	587,252	65,250	4
Flow Restrictors - Shower	152	$7,138	961,704	96,170	8	88	$2,842	556,776	55,678	5
Pipe Insulation	152	$7,138	270,796	18,053	3					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	25	$1,625	61,050	5,550	2	81	$6,336	197,802	17,982	7
ENERGY STAR Qualified Dishwasher	15	$469	19,414	1,765	1	52	$1,981	67,302	6,118	5
ENERGY STAR Qualified Refrigerator	35	$1,094	55,361	3,691	0	92	$3,420	145,521	9,701	1
ENERGY STAR Qualified Freezer	30	$938	33,467	2,231	0	19	$683	21,195	1,413	
Appliance Recycling						82	$9,409	665,880	74,871	16
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						5	$4,510	166,500	5,550	1
Additional Low Income										
Energy Efficiency Kits	100	$2,500	1,016,982	112,998	13	70	$4,911	711,887	79,099	10
Building Shell - Existing Home Only										
Weatherization Rebates	88	$36,437	2,793,704	98,794	5	44	$15,253	1,480,690	50,581	5
Residential Total	**4,437**	**$148,679**	**16,438,096**	**1,125,623**	**358**	**6,696**	**$184,989**	**17,880,481**	**1,321,214**	**585**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Butler County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program						147	$278	79,888	22,191	10
High Efficiency Interior Lighting	10	$900	56,325	7,315	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1					
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive										
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10					
Dairy Heat Reclaimer	2	$250	331,901	22,127	11					
Livestock Ventilation Fans	30	$900	155,844	12,987	4					
Scroll compressor (milk cooling)	1	$625	55,361	3,691	0					
Efficient Livestock Waterers	10	$625	95,371	7,948						
Hog Farrowing - Heat Lamps (<= 175W)	10	$38	6,704	1,676						
Hog Farrowing - Single Crate Heating Pads (<=85W)	10	$313	20,091	2,009						
Hog Farrowing - Double Crate Heating Pads(<=170W)	10	$625	40,182	4,018						
Ag, Commercial and Industrial Total	**96**	**$9,763**	**1,128,790**	**85,948**	**26**	**147**	**$278**	**79,888**	**22,191**	**10**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control										
Water Heater Storage	102	$4,495			102	88	$2,476			98
Space Heating Load Control (Interruptible)										
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	47	$1,796			282	50	$2,093			333
Irrigation										
Time of Use Pricing	6	$1,369			40	6	$4,620			44
Commercial and Industrial Time-of-Day Price	15	$3,571				19	$5,022			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$5,841								
Expert Energy Services - C&I	30	$11,681				10	$25,315			
Energy Audit Services - Residential *	50	$5,433				62	$3,148			
IV. Educational & Research Programs										
Model Housing Education	9	$6,941				4,228	$2,160			
Member Information and Education	5,038	$8,332				4,228	$30,759			
Peak Alert	5,038	$64								
Living with Energy in Iowa	5,038	$6,169				4,228	$12,545			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,038	$12,867				4,228	$16,404			
TOTAL	**24,954**	**$227,002**	**17,566,886**	**1,211,572**	**807**	**23,990**	**$289,809**	**17,960,369**	**1,343,405**	**1,070**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Butler County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	14	$2,500	55,633	3,974	4	8	1,769	36,706	2,622	4
Geothermal Heat Pump	20	$34,750	5,311,572	265,579	31	17	$36,247	4,514,836	225,742	29
Air Source Heat Pump	20	$12,500	2,356,308	157,087	20	29	$24,792	3,416,647	227,776	33
Heat Recovery Ventilators	15	$2,344	187,812	9,391		3	$530	37,562	1,878	
Residential Contractor Rebates							$10,200			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,200	$4,818	1,051,769	144,078	132	2,730	$9,386	1,305,150	178,788	182
Local CFL Rebate Program(s)	700	$2,625	334,654	45,843	42	4,822	$6,001	2,305,287	315,793	321
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	117	$878	83,065	5,065	2	92	$820	76,093	4,640	2
ENERGY STAR LED lighting	250	$938	334,665	18,593	10	5	$80	6,693	372	
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	400	$1,000	372,960	31,080	100	164	$653	152,914	12,743	46
Residential Water Heating (low income included)										
High Efficiency Water Heater	102	$17,875	438,578	29,239	4	134	$29,482	588,944	39,263	5
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)							$2			
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	252	$11,834	840,838	93,426	5	268	$4,236	894,225	99,358	6
Flow Restrictors - Shower	152	$7,138	961,704	96,170	8	131	$3,833	828,837	82,884	7
Pipe Insulation	152	$7,138	270,796	18,053	3					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	30	$1,950	73,260	6,660	2	68	$4,777	166,056	15,096	6
ENERGY STAR Qualified Dishwasher	15	$469	19,414	1,765	1	43	$1,512	55,653	5,059	4
ENERGY STAR Qualified Refrigerator	45	$1,406	71,179	4,745	0	70	$2,445	110,723	7,382	1
ENERGY STAR Qualified Freezer	35	$1,094	39,044	2,603	0	20	$687	22,311	1,487	
Appliance Recycling						108	$12,401	926,993	103,816	21
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						2	$2,667	66,600	2,220	
Additional Low Income										
Energy Efficiency Kits	100	$2,500	1,016,982	112,998	13		$1,987			
Building Shell - Existing Home Only										
Weatherization Rebates	115	$47,666	3,637,154	128,485	7	28	$11,813	1,132,705	38,376	2
Residential Total	**4,734**	**$161,421**	**17,457,386**	**1,174,833**	**385**	**8,742**	**$166,320**	**16,644,935**	**1,365,295**	**669**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Butler County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program						201	$334	109,235	30,343	13
High Efficiency Interior Lighting	10	$900	56,325	7,315	0	1,369	$15,226	1,250,881	192,443	63
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1					
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive						100		1,461,204	97,414	24
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10					
Dairy Heat Reclaimer	2	$250	331,901	22,127	11					
Livestock Ventilation Fans	30	$900	155,844	12,987	4					
Scroll compressor (milk cooling)	1	$625	55,361	3,691	0					
Efficient Livestock Waterers	10	$625	95,371	7,948						
Hog Farrowing - Heat Lamps (<= 175W)	10	$38	6,704	1,676						
Hog Farrowing - Single Crate Heating Pads (<=85W)	10	$313	20,091	2,009						
Hog Farrowing - Double Crate Heating Pads(<=170W)	10	$625	40,182	4,018						
Ag, Commercial and Industrial Total	**96**	**$9,763**	**1,128,790**	**85,948**	**26**	**1,670**	**$15,560**	**2,821,320**	**320,200**	**100**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control										
Water Heater Storage	102	$4,630			102	88	$4,171			98
Space Heating Load Control (Interruptible)										
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	47	$1,850			282	45	$1,962			300
Irrigation										
Time of Use Pricing	6	$1,410			40	8	$6,418			59
Commercial and Industrial Time-of-Day Price	15	$3,678				19	$8,284			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$6,016					$8,069			
Expert Energy Services - C&I	30	$12,032					$8,069			
Energy Audit Services - Residential *	50	$5,596				52	$2,655			
IV. Educational & Research Programs										
Model Housing Education	9	$6,941				4,216	$2,054			
Member Information and Education	5,048	$8,332				4,216	$30,059			
Peak Alert	5,048	$64								
Living with Energy in Iowa	5,048	$6,169				4,216	$11,995			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,048	$12,867				4,216	$17,600			
TOTAL	**25,291**	**$240,769**	**18,586,177**	**1,260,781**	**834**	**27,488**	**$283,216**	**19,466,255**	**1,685,495**	**1,226**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Butler County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	14	$2,500	55,633	3,974	4	12	$2,842	52,681	3,763	5
Geothermal Heat Pump	20	$34,750	5,311,572	265,579	31	11	$26,384	2,921,365	146,068	19
Air Source Heat Pump	20	$12,500	2,356,308	157,087	20	31	$30,351	3,652,277	243,485	35
Heat Recovery Ventilators	15	$2,344	187,812	9,391		8	$1,583	100,166	5,008	
Residential Contractor Rebates						44	$25,095			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,300	$5,037	1,099,577	150,627	138	1,433	$5,676	685,084	93,847	95
Local CFL Rebate Program(s)	800	$3,000	382,462	52,392	48	362	$2,081	173,064	23,707	24
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	117	$878	83,065	5,065	2	67	$700	63,386	3,865	1
ENERGY STAR LED lighting	250	$938	334,665	18,593	10	393	$2,532	526,093	29,227	17
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	450	$1,125	419,580	34,965	113	250	$1,289	233,100	19,425	69
Residential Water Heating (low income included)										
High Efficiency Water Heater	102	$17,875	438,578	29,239	4	117	$49,313	486,363	32,424	5
Heat Pump Water Heater - (Add-On)							$1			
Heat Pump Water Heater - (Integrated)						3	$1,459	69,331	5,778	1
Solar Water Heaters (w/ Electric auxiliary tank)							$1			
Flow Restrictors - Faucet	252	$11,834	840,838	93,426	5	214	$6,035	714,045	79,338	5
Flow Restrictors - Shower	152	$7,138	961,704	96,170	8	131	$5,659	828,837	82,884	7
Pipe Insulation	152	$7,138	270,796	18,053	3		$1,102			
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	35	$2,275	85,470	7,770	3	73	$5,742	178,266	16,206	6
ENERGY STAR Qualified Dishwasher	20	$625	25,885	2,353	2	58	$2,286	75,067	6,824	6
ENERGY STAR Qualified Refrigerator	50	$1,563	79,088	5,273	1	83	$3,240	131,285	8,752	1
ENERGY STAR Qualified Freezer	40	$1,250	44,622	2,975	0	20	$762	22,311	1,487	0
Appliance Recycling						91	$13,021	763,323	85,494	18
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						1	$1,470	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits	100	$2,500	1,016,982	112,998	13	45	$5,618	457,642	50,849	6
Building Shell - Existing Home Only										
Weatherization Rebates	140	$58,382	4,471,247	157,863	8	37	$15,446	1,537,050	52,005	4
Residential Total	**5,029**	**$173,650**	**18,465,883**	**1,223,792**	**412**	**3,484**	**$209,688**	**13,704,037**	**991,549**	**325**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Butler County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	10	$900	56,325	7,315	0	2,754	$17,416	2,846,556	437,932	84
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1					
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive										
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10					
Dairy Heat Reclaimer	2	$250	331,901	22,127	11					
Livestock Ventilation Fans	30	$900	155,844	12,987	4					
Scroll compressor (milk cooling)	1	$625	55,361	3,691	0					
Efficient Livestock Waterers	10	$625	95,371	7,948						
Hog Farrowing - Heat Lamps (<= 175W)	10	$38	6,704	1,676						
Hog Farrowing - Single Crate Heating Pads (<=85W)	10	$313	20,091	2,009						
Hog Farrowing - Double Crate Heating Pads(<=170W)	10	$625	40,182	4,018						
Ag, Commercial and Industrial Total	**96**	**$9,763**	**1,128,790**	**85,948**	**26**	**2,754**	**$17,416**	**2,846,556**	**437,932**	**84**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control										
Water Heater Storage	102	$4,769			102	96	$6,160			107
Space Heating Load Control (Interruptible)										
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	47	$1,906			282	47	$1,867			313
Irrigation										
Time of Use Pricing	6	$1,452			40	14	$10,688			103
Commercial and Industrial Time-of-Day Price	15	$3,789				14	$5,809			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$6,196					$8,999			
Expert Energy Services - C&I	30	$12,393					$8,999			
Energy Audit Services - Residential *	50	$5,764				43	$2,843			
IV. Educational & Research Programs										
Model Housing Education	9	$6,941				4,249	$2,051			
Member Information and Education	5,058	$8,332				4,249	$47,388			
Peak Alert	5,058	$64								
Living with Energy in Iowa	5,058	$6,169				4,249	$11,449			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,058	$12,867				4,249	$19,779			
TOTAL	**25,626**	**$254,054**	**19,594,673**	**1,309,740**	**861**	**23,448**	**$353,136**	**16,550,593**	**1,429,480**	**932**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Butler County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	14	$2,500	55,633	3,974	4	10	$2,288	39,658	2,833	3
Geothermal Heat Pump	20	$34,750	5,311,572	265,579	31	19	$43,527	5,045,993	252,300	32
Air Source Heat Pump	20	$12,500	2,356,308	157,087	20	21	$21,329	2,474,123	164,942	24
Heat Recovery Ventilators	15	$2,344	187,812	9,391		4	$541	50,083	2,504	
Residential Contractor Rebates						46	$24,787			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,400	$5,256	1,147,385	157,176	144	2,305	$5,911	1,101,967	150,954	154
Local CFL Rebate Program(s)	900	$3,375	430,269	58,941	54	140	$1,273	66,931	9,169	9
ENERGY STAR CFL/LED Fixtures						128	$764	281,318	14,066	6
T8 or better Lighting Fixtures	117	$878	83,065	5,065	2	85	$852	72,780	4,438	1
ENERGY STAR LED lighting	250	$938	334,665	18,593	10	400	$2,946	535,464	29,748	18
Exterior Lighting										
High Efficiency Exterior Lighting						42	$1,425	206,853	41,371	
LED Holiday Lighting	500	$1,250	466,200	38,850	125	199	$1,354	185,548	15,462	55
Residential Water Heating (low income included)										
High Efficiency Water Heater	102	$17,875	438,578	29,239	4	108	$42,573	463,519	30,901	5
Heat Pump Water Heater - (Add-On)							$111			
Heat Pump Water Heater - (Integrated)										
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	252	$11,834	840,838	93,426	5	205	$4,170	684,015	76,002	5
Flow Restrictors - Shower	152	$7,138	961,704	96,170	8	119	$3,952	752,913	75,291	7
Pipe Insulation	152	$7,138	270,796	18,053	3		$260			
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	40	$2,600	97,680	8,880	3	51	$5,198	124,542	11,322	5
ENERGY STAR Qualified Dishwasher	25	$781	32,357	2,942	2	31	$1,601	40,122	3,647	3
ENERGY STAR Qualified Refrigerator	55	$1,719	86,996	5,800	1	39	$2,204	61,688	4,113	0
ENERGY STAR Qualified Freezer	45	$1,406	50,200	3,347	0	19	$764	21,195	1,413	0
Appliance Recycling						46	$8,176.00	379,414	42,702	10
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						1	$1,575	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits	100	$2,500	1,016,982	112,998	13	40	$6,134	406,793	45,199	6
Building Shell - Existing Home Only										
Weatherization Rebates	168	$70,225	5,358,386	189,010	10	33	$13,950	1,231,234	41,647	3
Residential Total	**5,327**	**$187,006**	**19,527,425**	**1,274,519**	**439**	**4,091**	**$197,665**	**14,259,455**	**1,021,133**	**346**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Butler County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	10	$900	56,325	7,315	0	770	$16,960	1,644,789	253,044	91
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1					
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive						4	$57,045	13,256,930	883,795	442
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10	1	$500	147,103	9,807	5
Dairy Heat Reclaimer	2	$250	331,901	22,127	11					
Livestock Ventilation Fans	30	$900	155,844	12,987	4					
Scroll compressor (milk cooling)	1	$625	55,361	3,691	0					
Efficient Livestock Waterers	10	$625	95,371	7,948		2	$100	19,074	1,590	
Hog Farrowing - Heat Lamps (<= 175W)	10	$38	6,704	1,676						
Hog Farrowing - Single Crate Heating Pads (<=85W)	10	$313	20,091	2,009						
Hog Farrowing - Double Crate Heating Pads(<=170W)	10	$625	40,182	4,018						
Ag, Commercial and Industrial Total	**96**	**$9,763**	**1,128,790**	**85,948**	**26**	**777**	**$74,605**	**15,067,896**	**1,148,236**	**538**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control							$8,601			
Water Heater Storage	102	$4,912			102	102	$7,861			113
Space Heating Load Control (Interruptible)							$5,734			
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	47	$1,963			282	45	$350			300
Irrigation										
Time of Use Pricing	6	$1,495			40	20	$14,297			147
Commercial and Industrial Time-of-Day Price	15	$3,902				20	$7,770			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$6,382					$9,506			
Expert Energy Services - C&I	30	$12,765					$9,506			
Energy Audit Services - Residential *	50	$5,937				26	$2,011			
IV. Educational & Research Programs										
Model Housing Education	9	$6,941				4,229	$2,735			
Member Information and Education	5,068	$8,332				4,229	$15,729			
Peak Alert	5,068	$64								
Living with Energy in Iowa	5,068	$6,169				4,229	$12,023			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,068	$12,867				4,229	$20,335			
TOTAL	**25,964**	**$268,498**	**20,656,216**	**1,360,467**	**888**	**21,997**	**$388,728**	**29,327,351**	**2,169,369**	**1,443**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

Calhoun County REC
A Touchstone Energy® Cooperative

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Calhoun County Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Calhoun County Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Calhoun County Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Calhoun County Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Calhoun County Electric Cooperative.

Calhoun County Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Calhoun County Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Calhoun County Electric Cooperative offers similar programs for the

small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Calhoun County Electric Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer.

In addition to the rebate opportunities, Calhoun County Electric Cooperative offers two demand response programs that help us to be both environmentally and fiscally responsible. These programs are water heater load management and air conditioning load management. These optional programs allow member-consumers to receive an incentive in exchange for our ability to curtail load during peak times. Calhoun County Electric Cooperative also offers energy audits for all member-consumers.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Calhoun County Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Calhoun County Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Calhoun County Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, on our Facebook page, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Calhoun County Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Calhoun County Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Calhoun County Electric Cooperative. Calhoun County Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Calhoun County Rural Electric Cooperative Association	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	40	$6,938	157,747	33,179	11,268	16	$3,500	64,972	12,357	4,640
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	35	$60,703	9,295,251	1,341,172	464,763	26	$50,368	6,905,044	1,128,711	345,253
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	58	$34,655	6,833,293	1,311,678	455,553	19	$16,372	2,238,493	431,989	149,233
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	7	$1,096	87,646	11,269	4,382	7	$1,383	87,645	15,651	4,382
Residential Contractor Rebates	Incentive for heat pump installs						32	$8,391			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	642	$417	306,925	125,479	42,045	1,184	$2,663	566,043	168,112	77,540
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	1,250	$4,813	597,596	245,588	81,863	5,195	$26,262	2,483,610	1,497,625	340,220
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	89	$668	75,164	11,947	4,583	102	$791	83,720	15,011	5,105
ENERGY STAR LED lighting	Rebate for LED lighting.	28	$105	37,482	5,503	2,082	80	$265	107,093	10,784	5,950
Exterior Lighting											
LED Holiday Lighting	Rebate for holiday lighting.	98	$245	91,375	24,165	7,615	38	$568	35,431	9,789	2,952
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	148	$28,125	672,810	133,269	44,854	87	$29,723	405,361	85,779	27,023
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.							$2			
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	12	$4,500	277,322	55,850	23,110	2	$603	46,220	7,703	3,852
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	460	$3,855	1,534,864	482,703	170,540	144	$899	480,479	190,557	53,386
Flow Restrictors - Shower	Incentive for low-flow shower head.	300	$5,028	1,898,100	527,672	189,810	82	$871	518,814	180,953	51,882
Pipe Insulation	Incentive for water pipe insulation.	300	$1,875	534,465	99,054	35,631					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	34	$2,210	83,028	21,534	7,548	72	$5,619	163,809	46,709	14,892
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	20	$625	25,885	6,589	2,353	41	$1,579	53,065	15,294	4,824
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	47	$1,469	74,342	13,709	4,956	75	$2,976	118,631	25,413	7,909
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	26	$813	29,004	5,206	1,934	14	$585	15,617	3,048	1,041
Appliance Recycling	Incentives for appliance recycling.	221	$15,194	1,691,304	561,137	190,442	111	$10,202	937,979	376,037	105,309
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.							$8			
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	154	$4,813	1,566,152	544,650	174,017	174	$6,758	1,769,548	606,796	196,616
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	119	$67,250	5,232,113	430,495	177,889	76	$17,044	2,545,442	328,321	89,140
Residential Total		**4,088**	**$245,394**	**31,101,869**	**5,991,847**	**2,097,236**	**7,577**	**$187,432**	**19,627,016**	**5,156,639**	**1,491,146**
Percentage of 5 year plan goal - Residential								**76%**	**63%**		**71%**

Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.						28	$60	15,217	14,191	4,227
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	546	$862	328,979	285,732	104,908	1,561	$6,855	1,026,860	321,354	157,978
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)						3	$90	6,821	1,392	1,392
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.						18	$3,000	1,944,720	194,472	97,236
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	18	$10,755	471,128	95,971	31,409					
Agricultural											
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	28	$96	147,133	25,398	12,261	147	$2,298	2,726,044	695,153	227,171
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.						2	$168	42,744	3,562	3,562
Ag, Commercial and Industrial Total		**592**	**$11,712**	**947,240**	**407,100**	**148,578**	**1,759**	**$12,471**	**5,762,406**	**1,230,124**	**491,566**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**106%**	**608%**		**331%**

II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	1,220	$114,375				644	$25,587			
Water Heater Storage	Water heater storage.						11	$232			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	110	$4,433					$5,554			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	110	$9,003					$9,993			
Energy Audit Services - Residential *	Energy Audit Services - Residential	140	$44,800					$47			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.							$1,500			
Member Information and Education	Member Information and Education						6,025	$23,123			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	7,335	$10,536				6,025	$16,309			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,515	$16,640				6,025	$18,311			
TOTAL		**21,110**	**$456,893**	**32,049,109**	**6,398,947**	**2,245,814**	**28,066**	**$300,559**	**25,389,421**	**6,386,763**	**1,982,712**
Percentage of 5 year plan goal achieved								**66%**	**79%**		**88%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Calhoun County Rural Electric Cooperative Association	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,438	32,556	2,325	3		36			
Geothermal Heat Pump	6	$10,406	1,593,472	79,674	9	8	$13,511	2,124,629	106,231	14
Air Source Heat Pump	10	$5,975	1,178,154	78,544	10	2	$1,788	235,631	15,709	2
Heat Recovery Ventilators	1	$157	12,521	626		2	$264	25,042	1,252	
Residential Contractor Rebates						7	$1,400			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	121	$79	57,847	7,924	7	37		17,689	2,423	2
Local CFL Rebate Program(s)	250	$963	119,519	16,373	15	2,490	$7,664	1,190,412	163,070	166
T8 or better Lighting Fixtures	9	$68	8,246	503	0	6	$57	8,083	493	0
ENERGY STAR LED lighting	4	$15	5,355	297	0		$1			
Exterior Lighting										
LED Holiday Lighting	21	$53	19,580	1,632	5	2	$20	1,865	155	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	29	$5,625	133,733	8,916	1	18	$3,376	85,231	5,682	1
Heat Pump Water Heater - (Add-On)							$2			
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0		$2			
Flow Restrictors - Faucet	78	$654	260,259	28,918	2	36	$189	120,120	13,347	1
Flow Restrictors - Shower	48	$804	303,696	30,370	2	18	$198	113,886	11,389	1
Pipe Insulation	48	$300	85,514	5,701	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	6	$390	14,652	1,332	0	12	$708	17,289	1,572	1
ENERGY STAR Qualified Dishwasher	3	$94	3,883	353	0	7	$225	9,060	824	1
ENERGY STAR Qualified Refrigerator	8	$250	12,654	844	0	15	$472	23,726	1,582	0
ENERGY STAR Qualified Freezer	4	$125	4,462	297	0	2	$64	2,231	149	0
Appliance Recycling	37	$2,544	277,189	31,275	7	35	$2,983	259,157	29,476	8
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *							$2			
Additional Low Income										
Energy Efficiency Kits	34	$1,063	345,774	38,419	4	47	$1,924	477,982	53,109	7
Building Shell - Existing Home Only										
Weatherization Rebates	10	$6,000	421,978	14,369	1	19	$5,276	699,555	24,694	2
Residential Total	**736**	**$37,374**	**4,914,155**	**350,617**	**69**	**2,763**	**$40,162**	**5,411,587**	**431,156**	**205**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	85	$124	49,960	16,308	0					
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	4	$2,390	104,695	6,980	0					
Agricultural										
Livestock Ventilation Fans	2	$88	10,509	876	0					
Circulating Fans --- BESS Lab Ratings										
Ag, Commercial and Industrial Total	**91**	**$2,601**	**165,164**	**24,164**	**1**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control										
Water Heater Storage										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	22	$835								
Expert Energy Services - C&I	22	$1,696					$567			
Energy Audit Services - Residential *	18	$5,760					$8			
IV. Educational & Research Programs										
Model Housing Education							$576			
Member Information and Education						1,227	$9,115			
Living with Energy in Iowa	1,467	$2,107				1,227	$3,484			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,467	$3,328				1,227	$3,304			
TOTAL	**3,823**	**$53,702**	**5,079,320**	**374,780**	**70**	**6,444**	**$57,216**	**5,411,587**	**431,156**	**205**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Calhoun County Rural Electric Cooperative Association	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$1,188	26,931	1,924	2	4	$1,256	12,432	888	1
Geothermal Heat Pump	7	$12,141	1,859,050	92,953	11	6	$19,358	1,593,472	79,674	10
Air Source Heat Pump	11	$6,573	1,295,969	86,398	11	5	$7,572	589,077	39,272	6
Heat Recovery Ventilators	1	$157	12,521	626		3	$866	37,562	1,878	
Residential Contractor Rebates						8	$2,200			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	138	$90	65,975	9,038	8	131	$432	62,628	8,579	9
Local CFL Rebate Program(s)	250	$963	119,519	16,373	15	2,475	$18,059	1,183,241	162,088	165
T8 or better Lighting Fixtures	16	$120	13,908	848	0	18	$261	13,762	839	
ENERGY STAR LED lighting	4	$15	5,355	297	0		$2			
Exterior Lighting										
LED Holiday Lighting	23	$58	21,445	1,787	6	26	$528	24,242	2,020	7
Residential Water Heating (low income included)										
High Efficiency Water Heater	27	$5,000	120,563	8,038	1	26	$10,376	117,100	7,806	1
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)	2	$750	46,220	3,852	0					
Flow Restrictors - Faucet	80	$670	266,933	29,659	2	52	$401	173,506	19,278	1
Flow Restrictors - Shower	51	$855	322,677	32,268	3	26	$354	164,502	16,450	1
Pipe Insulation	51	$319	90,859	6,057	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	6	$390	14,652	1,332	0	23	$2,929	56,166	5,106	2
ENERGY STAR Qualified Dishwasher	4	$125	5,177	471	0	11	$716	14,237	1,294	1
ENERGY STAR Qualified Refrigerator	7	$219	11,072	738	0	23	$1,471	36,380	2,425	
ENERGY STAR Qualified Freezer	4	$125	4,462	297	0	4	$262	4,462	297	
Appliance Recycling	45	$3,094	358,721	40,266	8	30	$3,349	290,559	32,284	5
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits	32	$1,000	325,434	36,159	4	31	$1,352	315,264	35,029	4
Building Shell - Existing Home Only										
Weatherization Rebates	17	$10,250	733,849	24,916	2	31	$6,287	1,063,503	36,966	3
Residential Total	**783**	**$44,098**	**5,721,292**	**394,296**	**75**	**2,933**	**$78,031**	**5,752,095**	**452,173**	**216**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program						10	$30	5,435	1,510	1
High Efficiency Interior Lighting	92	$128	53,435	17,645	0	182	$655			
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	4	$2,390	104,695	6,980	0					
Agricultural										
Livestock Ventilation Fans	2	$2	10,509	876	0	22	$1,407	163,676	13,640	5
Circulating Fans --- BESS Lab Ratings										
Ag, Commercial and Industrial Total	**98**	**$2,520**	**168,639**	**25,500**	**1**	**214**	**$2,092**	**169,111**	**15,150**	**6**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	200	$18,750			100	26	$9,802			14
Water Heater Storage										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	22	$860								
Expert Energy Services - C&I	22	$1,747					$3,872			
Energy Audit Services - Residential *	22	$7,040					$36			
IV. Educational & Research Programs										
Model Housing Education							$176			
Member Information and Education						1,206	$4,030			
Living with Energy in Iowa	1,467	$2,107				1,206	$3,411			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,467	$3,328				1,206	$3,392			
TOTAL	**4,081**	**$80,451**	**5,889,931**	**419,796**	**176**	**6,791**	**$104,842**	**5,921,206**	**467,323**	**236**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Calhoun County Rural Electric Cooperative Association	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,313	30,039	2,146	2	6	$1,200	26,200	1,871	2
Geothermal Heat Pump	7	$12,141	1,859,050	92,953	11	2	$5,268	531,157	26,558	3
Air Source Heat Pump	12	$7,170	1,413,785	94,252	12	4	$2,807	471,262	31,417	5
Heat Recovery Ventilators	1	$157	12,521	626			$1			
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	124	$81	59,282	8,121	7	239	$367	114,260	15,652	16
Local CFL Rebate Program(s)	250	$963	119,519	16,373	15	58	$152	27,728	3,798	4
T8 or better Lighting Fixtures	18	$135	15,291	932	0	39	$237	26,978	1,645	
ENERGY STAR LED lighting	6	$23	8,032	446	0		$8			
Exterior Lighting										
LED Holiday Lighting	21	$53	19,580	1,632	5					
Residential Water Heating (low income included)										
High Efficiency Water Heater	32	$6,125	146,204	9,747	1	11	$3,394	48,501	3,233	
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)	2	$750	46,220	3,852	0					
Flow Restrictors - Faucet	96	$804	320,319	35,591	2	18	$114	60,060	6,673	
Flow Restrictors - Shower	62	$1,039	392,274	39,227	3	18	$114	113,886	11,389	1
Pipe Insulation	62	$388	110,456	7,364	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	7	$455	17,094	1,554	1	17	$901	41,514	3,774	2
ENERGY STAR Qualified Dishwasher	4	$125	5,177	471	0	8	$245	10,354	941	1
ENERGY STAR Qualified Refrigerator	10	$313	15,818	1,055	0	13	$372	20,563	1,371	
ENERGY STAR Qualified Freezer	5	$156	5,578	372	0	2	$94	2,231	149	
Appliance Recycling	49	$3,369	378,125	42,559	9	23	$1,968	196,005	21,983	5
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *							$2			
Additional Low Income										
Energy Efficiency Kits	34	$1,063	345,774	38,419	4	26	$972	264,415	29,379	4
Building Shell - Existing Home Only										
Weatherization Rebates	24	$14,000	1,064,734	36,097	2	5	$1,158	160,356	5,497	
Residential Total	**834**	**$50,619**	**6,384,872**	**433,787**	**78**	**489**	**$19,374**	**2,115,470**	**165,330**	**43**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program						18	$30	9,782	2,717	1
High Efficiency Interior Lighting	104	$164	62,577	19,980	0	685	$1,716	419,545	64,545	28
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	3	$1,793	78,521	5,235	0					
Agricultural										
Livestock Ventilation Fans	4	$2	21,019	1,752	1	125	$891	2,562,368	213,531	33
Circulating Fans --- BESS Lab Ratings										
Ag, Commercial and Industrial Total	**111**	**$1,958**	**162,118**	**26,966**	**1**	**828**	**$2,637**	**2,991,695**	**280,793**	**62**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	270	$25,313			135	11	$496			6
Water Heater Storage						11	$232			12
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	22	$886					$1,907			
Expert Energy Services - C&I	22	$1,799					$1,907			
Energy Audit Services - Residential *	28	$8,960					$1			
IV. Educational & Research Programs										
Model Housing Education							$118			
Member Information and Education						1,202	$5,373			
Living with Energy in Iowa	1,467	$2,107				1,202	$3,220			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,647	$3,328				1,202	$3,588			
TOTAL	**4,401**	**$94,969**	**6,546,990**	**460,753**	**214**	**4,945**	**$38,853**	**5,107,165**	**446,123**	**123**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progra

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Calhoun County Rural Electric Cooperative Association	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	9	$1,563	35,664	2,547	3	4	$657	18,353	1,311	2
Geothermal Heat Pump	7	$12,141	1,859,050	92,953	11	5	$6,149	1,327,893	66,395	9
Air Source Heat Pump	12	$7,170	1,413,785	94,252	12	5	$1,174	589,077	39,272	6
Heat Recovery Ventilators	2	$313	25,042	1,252		1	$127	12,521	626	
Residential Contractor Rebates						10	$2,561			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	128	$83	61,194	8,383	8	364	$1,005	174,020	23,838	24
Local CFL Rebate Program(s)	250	$963	119,519	16,373	15	172	$387	82,229	11,264	11
T8 or better Lighting Fixtures	20	$150	15,473	944	0	39	$236	34,897	2,128	1
ENERGY STAR LED lighting	6	$23	8,032	446	0	65	$198	87,013	4,834	3
Exterior Lighting										
LED Holiday Lighting	18	$45	16,783	1,399	5	2	$4	1,865	155	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	30	$5,750	137,196	9,146	1	20	$7,452	92,158	6,144	1
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)	3	$1,125	69,331	5,778	1	2	$601	46,220	3,852	0
Flow Restrictors - Faucet	98	$821	326,993	36,333	2	34	$172	113,446	12,605	1
Flow Restrictors - Shower	65	$1,089	411,255	41,126	3	18	$182	113,886	11,389	1
Pipe Insulation	65	$406	115,801	7,720	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	7	$455	17,094	1,554	1	12	$613	29,304	2,664	1
ENERGY STAR Qualified Dishwasher	4	$125	5,177	471	0	12	$305	15,531	1,412	1
ENERGY STAR Qualified Refrigerator	10	$313	15,818	1,055	0	11	$281	17,399	1,160	0
ENERGY STAR Qualified Freezer	6	$188	6,693	446	0	3	$77	3,347	223	0
Appliance Recycling	48	$3,300	350,975	39,678	9	14	$1,002	106,214	12,006	3
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *							$4			
Additional Low Income										
Energy Efficiency Kits	28	$875	284,755	31,639	4	30	$1,340	305,095	33,899	4
Building Shell - Existing Home Only										
Weatherization Rebates	32	$18,000	1,418,347	48,187	3	18	$3,703	522,838	18,513	2
Residential Total	**848**	**$54,896**	**6,713,977**	**441,680**	**78**	**841**	**$28,230**	**3,693,305**	**253,689**	**70**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	118	$200	72,713	22,697	0	600	$1,960	222,857	34,286	18
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump						18	$3,000	1,944,720	97,236	22
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	3	$1,793	78,521	5,235	0					
Agricultural										
Livestock Ventilation Fans	8	$2	42,038	3,503	1					
Circulating Fans --- BESS Lab Ratings										
Ag, Commercial and Industrial Total	**129**	**$1,995**	**193,272**	**31,435**	**2**	**618**	**$4,960**	**2,167,577**	**131,522**	**41**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	340	$31,875			170	286	$13,622			159
Water Heater Storage										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	22	$912					$2,126			
Expert Energy Services - C&I	22	$1,853					$2,126			
Energy Audit Services - Residential *	32	$10,240					$2			
IV. Educational & Research Programs										
Model Housing Education							$114			
Member Information and Education						1,199	$2,314			
Living with Energy in Iowa	1,467	$2,107				1,199	$3,019			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,467	$3,328				1,199	$3,925			
TOTAL	**4,327**	**$107,206**	**6,907,249**	**473,115**	**250**	**5,342**	**$60,438**	**5,860,882**	**385,211**	**269**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Calhoun County Rural Electric Cooperative Association	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,438	32,556	2,325	3	2	$351	7,988	571	1
Geothermal Heat Pump	8	$13,875	2,124,629	106,231	12	5	$6,082	1,327,893	66,395	9
Air Source Heat Pump	13	$7,768	1,531,600	102,107	13	3	$3,031	353,446	23,563	3
Heat Recovery Ventilators	2	$313	25,042	1,252		1	$125	12,521	626	
Residential Contractor Rebates						7	$2,230			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	131	$85	62,628	8,579	8	413	$859	197,446	27,047	28
Local CFL Rebate Program(s)	250	$963	119,519	16,373	15					
T8 or better Lighting Fixtures	26	$195	22,245	1,356	0					
ENERGY STAR LED lighting	8	$30	10,709	595	0	15	$56	20,080	1,116	1
Exterior Lighting										
LED Holiday Lighting	15	$38	13,986	1,166	4	8	$16	7,459	622	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	30	$5,625	135,115	9,008	1	12	$5,125	62,371	4,158	1
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)	4	$1,500	92,441	7,703	1					
Flow Restrictors - Faucet	108	$905	360,359	40,040	2	4	$23	13,347	1,483	0
Flow Restrictors - Shower	74	$1,240	468,198	46,820	4	2	$23	12,654	1,265	0
Pipe Insulation	74	$463	131,835	8,789	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	8	$520	19,536	1,776	1	8	$468	19,536	1,776	1
ENERGY STAR Qualified Dishwasher	5	$156	6,471	588	0	3	$88	3,883	353	0
ENERGY STAR Qualified Refrigerator	12	$375	18,981	1,265	0	13	$380	20,563	1,371	0
ENERGY STAR Qualified Freezer	7	$219	7,809	521	0	3	$88	3,347	223	0
Appliance Recycling	42	$2,888	326,293	36,663	7	9	$900	86,044	9,560	2
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits	26	$813	264,415	29,379	3	40	$1,170	406,793	45,199	6
Building Shell - Existing Home Only										
Weatherization Rebates	36	$19,000	1,593,205	54,319	3	3	$620	99,190	3,470	0
Residential Total	**887**	**$58,406**	**7,367,573**	**476,856**	**80**	**551**	**$21,635**	**2,654,558**	**188,798**	**53**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	147	$246	90,295	28,278	0	94	$2,524	384,458	59,147	21
Exterior Lighting										
High Efficiency Exterior Lighting						3	$90	6,821	1,392	1
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	4	$2,390	104,695	6,980	0					
Agricultural										
Livestock Ventilation Fans	12	$2	63,057	5,255	2					
Circulating Fans --- BESS Lab Ratings						2	$168	42,744	3,562	4
Ag, Commercial and Industrial Total	**163**	**$2,638**	**258,047**	**40,513**	**2**	**99**	**$2,782**	**434,023**	**64,101**	**25**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	410	$38,438			205	321	$1,667			178
Water Heater Storage										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	22	$940					$1,521			
Expert Energy Services - C&I	22	$1,908					$1,521			
Energy Audit Services - Residential *	40	$12,800								
IV. Educational & Research Programs										
Model Housing Education							$516			
Member Information and Education						1,191	$2,291			
Living with Energy in Iowa	1,467	$2,107				1,191	$3,175			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,467	$3,328				1,191	$4,102			
TOTAL	**4,478**	**$120,565**	**7,625,620**	**517,369**	**287**	**4,544**	**$39,210**	**3,088,581**	**252,899**	**256**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

Chariton Valley Electric Cooperative, Inc.

Your Touchstone Energy® Partner
The power of human connections®

Attn: Iowa Utilities Board

RE: Energy Efficiency

In 2008, The Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2009. The Legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required and may file a joint report or reports with the Board".

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on December 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Chariton Valley Electric Cooperative was included as a part of this filing. This filing, among other things, explained the assessment of potential process for determining cost-effectiveness, goal and anticipated timelines.

The Senate file also required a final report to be filed with the Board on or before January 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Chariton Valley Electric Cooperative and other cooperatives with Iowa members. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness test included the societal test, utility cost test, rate-payer impact test and participant test. The cost- effectiveness tests were performed in a collaborative manner by each electric power supplier group (Northeast Missouri Electric Power Cooperative) and were completed by a qualified independent third- party consultant.

Chariton Valley Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Chariton Valley Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Chariton Valley Electric Cooperative.

Chariton Valley Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Chariton Valley Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates for heating and cooling equipment as well as for electric water heaters. In addition, our residential energy audit program identifies areas for improvement within the home

Chariton Valley Electric Cooperative also offers custom lighting incentives for our small commercial member-consumers. For the large industrial member-consumers of Chariton Valley Electric Cooperative, we offer an energy audit program designed to highlight areas where large industrial consumers can reduce their energy use and costs. Due to the low number of large industrial member- consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a consumer audit program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers and employees so they can contribute effectively to the development of their cooperatives. To that end, Chariton Valley Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Chariton Valley Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter and many more affordable do-it-yourself ideas. Chariton Valley Electric Cooperative consistently shares the energy efficiency message on our website, on our Facebook page, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to "get the facts" and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages member to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime (for example, geothermal heat pumps typically have a high up-front capital cost, but have lower operating costs). As a member of the National Rural Electric Cooperative Association (NRECA), Chariton Valley Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

The programs that we offer were reviewed or designed during the assessment of potential process in which Chariton Valley Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumers and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member- consumers' energy usage.

This filing marks the end of this 5 year plan for Chariton Valley Electric Cooperative. Chariton Valley Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Chariton Valley Electric Cooperative, Inc.	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	106	$12,977	551,282	103,115	39,378	136	$17,843	630,070	171,191	45,007
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	14	$1,257	12,152	2,767	1,350	18	$1,810	16,005	6,522	1,779
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	65	$185,880	17,174,082	2,084,791	858,704	80	$245,059	21,246,287	3,943,840	1,062,314
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	37	$35,974	4,319,898	667,621	287,993	49	$25,894	5,772,954	1,468,765	384,864
Residential Lighting (low income included)											
Interior Lighting											
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	1,300	$33,095	621,500	333,999	85,137	1,920	$4,696	917,908	628,704	125,741
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	188	$18,745	188,563	158,147	42,855	35	$3,368	35,043	39,821	7,964
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	150	$29,756	224,775	44,955	14,985	153	$27,133	429,786	89,621	28,652
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.						2	$307	46,220	15,407	3,852
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	36	$2,126	120,120	53,387	13,347	1	$9	3,337	1,854	371
Flow Restrictors - Shower	Incentive for low-flow shower head.	36	$4,921	227,772	91,109	22,777	1	$22	6,327	3,164	633
Tank Insulation	Incentive for water heater tank insulation.	36	$2,760	61,538	24,615	6,154	1	$44	1,709	855	171
Pipe Insulation	Incentive for water pipe insulation.	36	$1,109	64,136	17,103	4,276	1	$5	1,782	594	119
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	55	$7,595	134,310	47,730	12,210	75	$10,885	134,616	51,561	12,238
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	40	$2,808	51,770	18,237	4,706	26	$2,198	33,651	13,413	3,059
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.						100	$1,523	1,016,982	112,998	112,998
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	392	$340,170	20,182,664	2,648,194	681,846					
Residential Total		**2,490**	**$679,173**	**43,934,562**	**6,295,770**	**2,075,719**	**2,598**	**$340,796**	**30,292,676**	**6,548,310**	**1,789,759**
Percentage of 5 year plan goal - Residential								**50%**	**69%**		**86%**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	490	$76,201	1,374,402	319,275	178,307	670	$24,829	2,207,098	848,845	279,156
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)						17	$670	112,503	12,634	10,228
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.						16	$960	23,710	4,247	1,580
Geothermal Heat Pump	Rebate for geothermal heat pump.	85	$125,020	1,475,634	221,345	73,782	2	$10,769	34,721	6,944	1,736
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.						13	$2,276	340,259	55,838	22,684
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	5	$6,380	360,889	72,178	24,059	18	$3,700	258,658	65,971	17,245
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	3	$7,634	441,308	117,682	29,421					
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	3	$699	15,944	5,315	1,329					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	9	$46,578	2,697,300	719,280	179,820					
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	3	$3,191	166,084	44,289	11,072					
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	3	$10,992	666,130	156,736	39,184					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		6	$71,558	2,664,000	1,065,600	266,400					
Ag, Commercial and Industrial Total		**607**	**$348,253**	**9,861,691**	**2,721,700**	**803,373**	**736**	**$43,204**	**2,976,949**	**994,479**	**332,629**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**12%**	**30%**		**41%**
II. Demand Response Programs											
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	15	$3,000				1	$750			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	12	$36,000				4	$8,998			
Energy Audit Services - Residential *	Energy Audit Services - Residential	120	$12,000				10	$2,235			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	21,900	$49,000				20,188	$89,243			
Peak Alert	Peak Alert	15,000									
Living with Energy in Iowa	Living with Energy in Iowa magazine.	21,900	$175,600				24,519	$108,040			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,900	$42,375				24,519	$50,089			
TOTAL		**68,944**	**$1,345,401**	**53,796,253**	**9,017,470**	**2,879,092**	**72,575**	**$643,356**	**33,269,625**	**7,542,789**	**2,122,388**
Percentage of 5 year plan goal achieved								**48%**	**62%**		**74%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Chariton Valley Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	13	$2,000	82,222	5,873	6	72	6,893	348,112	24,865	26
ENERGY STAR Qualified Room Air Conditioner	1	$64	889	99	0	4	$635	3,556	395	0
Geothermal Heat Pump	8	$27,800	2,124,629	106,231	12	40	$59,768	10,623,144	531,157	68
Air Source Heat Pump	4	$9,752	471,262	31,417	4	23	$5,790	2,709,754	180,650	26
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	500	$12,729	239,039	32,745	30	1,920	$4,696	917,908	125,741	128
Exterior Lighting										
High Efficiency Exterior Lighting	55	$5,500	55,067	12,515	0	35	$3,368	35,043	7,964	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	30	$5,951	44,955	2,997	1	24	$4,970	83,117	5,541	1
Heat Pump Water Heater - (Integrated)						1	$133	23,110	1,926	0
Flow Restrictors - Faucet	12	$709	40,040	4,449	0	1	$9	3,337	371	0
Flow Restrictors - Shower	12	$1,640	75,924	7,592	1	1	$22	6,327	633	0
Tank Insulation	12	$920	20,513	2,051	0	1	$44	1,709	171	0
Pipe Insulation	12	$370	21,379	1,425	0	1	$5	1,782	119	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	15	$2,071	36,630	3,330	1	33	$5,118	59,231	5,385	2
ENERGY STAR Qualified Dishwasher	10	$702	12,943	1,177	1	14	$1,283	18,120	1,647	1
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	96	$83,898	5,143,718	174,488	9					
Residential Total	**780**	**$154,106**	**8,369,208**	**386,390**	**65**	**2,170**	**$92,734**	**14,834,249**	**886,565**	**254**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	32	$21,223	42,764	6,909	0					
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning										
Geothermal Heat Pump	17	$25,004	295,127	14,756	2					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	3	$15,526	899,100	59,940	12					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$23,853	888,000	88,800	24					
Ag, Commercial and Industrial Total	**59**	**$94,387**	**2,626,991**	**202,219**	**46**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600								
Expert Energy Services - C&I	1	$3,000				2	$3,800			
Energy Audit Services - Residential *	24	$2,400				4	$333			
IV. Educational & Research Programs										
Member Information and Education	5,000	$1,000				534	$930			
Peak Alert	5,000									
Living with Energy in Iowa	5,000	$43,200				4,865	$23,161			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$8,475				4,865	$9,112			
TOTAL	**15,867**	**$307,168**	**10,996,199**	**588,609**	**111**	**12,440**	**$130,071**	**14,834,249**	**886,565**	**254**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Chariton Valley Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	13	$2,000	82,222	5,873	6	9	1,484	37,328	2,667	2
ENERGY STAR Qualified Room Air Conditioner	1	$64	889	99	0	6	$129	5,335	593	1
Geothermal Heat Pump	8	$27,800	2,124,629	106,231	12	9	$44,933	2,390,207	119,510	15
Air Source Heat Pump	4	$9,752	471,262	31,417	4	8	$2,810	942,523	62,835	9
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	500	$12,729	239,039	32,745	30					
Exterior Lighting										
High Efficiency Exterior Lighting	55	$5,500	55,067	12,515	0					
Residential Water Heating (low income included)										
High Efficiency Water Heater	30	$5,951	44,955	2,997	1	40	$6,104	107,093	7,139	1
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	12	$709	40,040	4,449	0					
Flow Restrictors - Shower	12	$1,640	75,924	7,592	1					
Tank Insulation	12	$920	20,513	2,051	0					
Pipe Insulation	12	$370	21,379	1,425	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	20	$2,762	48,840	4,440	2	25	$2,809	44,872	4,079	2
ENERGY STAR Qualified Dishwasher	15	$1,053	19,414	1,765	1	8	$419	10,354	941	1
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	148	$128,136	7,519,473	253,679	15					
Residential Total	**842**	**$199,385**	**10,763,644**	**467,280**	**72**	**105**	**$58,688**	**3,537,712**	**197,764**	**31**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	32	$21,223	42,764	6,909	0	325	$10,727	760,106	94,783	2
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning						3	$420	4,446	296	
Geothermal Heat Pump	17	$25,004	295,127	14,756	2	2	$10,769	34,721	1,736	
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)						3	$681	78,521	5,235	
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1	3	$469	216,533	14,436	3
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	3	$15,526	899,100	59,940	12					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$23,853	888,000	88,800	24					
Ag, Commercial and Industrial Total	**59**	**$94,387**	**2,626,991**	**202,219**	**46**	**336**	**$23,066**	**1,094,327**	**116,486**	**5**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600								
Expert Energy Services - C&I	2	$6,000								
Energy Audit Services - Residential *	24	$2,400				2	$845			
IV. Educational & Research Programs										
Member Information and Education	5,000	$1,000				4,894	$26,074			
Peak Alert	5,000									
Living with Energy in Iowa	5,000	$43,200				4,894	$22,895			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$8,475				4,894	$9,736			
TOTAL	**15,930**	**$355,447**	**13,390,635**	**669,499**	**118**	**15,125**	**$141,304**	**4,632,039**	**314,250**	**36**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Chariton Valley Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	13	$2,000	82,222	5,873	6	19	2,088	71,484	5,107	6
ENERGY STAR Qualified Room Air Conditioner	1	$64	889	99	0	6	$834	5,335	593	1
Geothermal Heat Pump	8	$27,800	2,124,629	106,231	12	12	$49,019	3,186,943	159,347	21
Air Source Heat Pump	4	$9,752	471,262	31,417	4	6	$1,479	706,892	47,126	7
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	100	$2,546	47,808	6,549	6					
Exterior Lighting										
High Efficiency Exterior Lighting	55	$5,500	55,067	12,515	0					
Residential Water Heating (low income included)										
High Efficiency Water Heater	30	$5,951	44,955	2,997	1	33	$7,342	90,709	6,047	1
Heat Pump Water Heater - (Integrated)						1	$174	23,110	1,926	
Flow Restrictors - Faucet	12	$709	40,040	4,449	0					
Flow Restrictors - Shower	12	$1,640	75,924	7,592	1					
Tank Insulation	12	$920	20,513	2,051	0					
Pipe Insulation	12	$370	21,379	1,425	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	20	$2,762	48,840	4,440	2	17	$2,958	30,513	2,774	1
ENERGY STAR Qualified Dishwasher	15	$1,053	19,414	1,765	1	4	$496	5,177	471	
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	148	$128,136	7,519,473	253,679	15					
Residential Total	**442**	**$189,202**	**10,572,414**	**441,084**	**48**	**98**	**$64,390**	**4,120,163**	**223,391**	**37**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	32	$21,223	42,764	6,909	0	266	$8,071	1,109,058	141,588	3
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning						5	$274	7,409	494	
Geothermal Heat Pump	17	$25,004	295,127	14,756	2					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1	13	$2,912	39,128	2,609	
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	3	$15,526	899,100	59,940	12					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$23,853	888,000	88,800	24					
Ag, Commercial and Industrial Total	**59**	**$94,387**	**2,626,991**	**202,219**	**46**	**284**	**$11,257**	**1,155,595**	**144,691**	**3**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600								
Expert Energy Services - C&I	3	$9,000				2	$5,198			
Energy Audit Services - Residential *	24	$2,400				1	$299			
IV. Educational & Research Programs										
Member Information and Education	5,000	$1,000				4,892	$39,189			
Peak Alert	5,000									
Living with Energy in Iowa	5,000	$43,200				4,892	$21,553			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$8,475				4,892	$9,865			
TOTAL	**15,531**	**$348,264**	**13,199,404**	**643,303**	**94**	**15,061**	**$151,751**	**5,275,758**	**368,082**	**40**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Chariton Valley Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	33	$3,488	152,308	10,880	11	25	$4,978	119,130	8,509	9
ENERGY STAR Qualified Room Air Conditioner	5	$533	4,742	527	1	2	$212	1,778	198	0
Geothermal Heat Pump	20	$51,240	5,400,098	270,005	35	6	$23,144	1,593,472	79,674	10
Air Source Heat Pump	12	$3,360	1,453,056	96,870	14	10	$14,895	1,178,154	78,544	11
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	100	$2,546	47,808	6,549	6					
Exterior Lighting										
High Efficiency Exterior Lighting	12	$1,123	11,681	2,655	0					
Residential Water Heating (low income included)										
High Efficiency Water Heater	30	$5,951	44,955	2,997	1	28	$4,417	79,404	5,294	1
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet										
Flow Restrictors - Shower										
Tank Insulation										
Pipe Insulation										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer										
ENERGY STAR Qualified Dishwasher										
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates										
Residential Total	**213**	**$68,240**	**7,114,648**	**390,483**	**68**	**71**	**$47,646**	**2,971,937**	**172,218**	**32**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	197	$6,266	623,055	78,790	2	13	$304	23,810	2,165	0
Exterior Lighting										
High Efficiency Exterior Lighting						4	$170	26,471	2,406	
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning						8	$266	11,855	790	1
Geothermal Heat Pump	17	$25,004	295,127	14,756	2					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)						10	$1,595	261,738	17,449	1
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1	2	$319	2,997	200	0
Agricultural										
Dairy Pre-coolers Incentive										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)										
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**215**	**$32,546**	**990,359**	**98,359**	**5**	**37**	**$2,654**	**326,871**	**23,010**	**2**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600								
Expert Energy Services - C&I	3	$9,000								
Energy Audit Services - Residential *	24	$2,400				1	$258			
IV. Educational & Research Programs										
Member Information and Education	3,450	$23,000				4,887	$16,140			
Peak Alert										
Living with Energy in Iowa	3,450	$23,000				4,887	$19,638			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	3,450	$8,475				4,887	$10,350			
TOTAL	**10,808**	**$167,261**	**8,105,007**	**488,841**	**73**	**14,770**	**$96,686**	**3,298,808**	**195,228**	**33**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Chariton Valley Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	33	$3,488	152,308	10,880	11	11	$2,400	54,017	3,858	4
ENERGY STAR Qualified Room Air Conditioner	5	$533	4,742	527	1					
Geothermal Heat Pump	20	$51,240	5,400,098	270,005	35	13	$68,195	3,452,522	172,626	22
Air Source Heat Pump	12	$3,360	1,453,056	96,870	14	2	$920	235,631	15,709	2
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	100	$2,546	47,808	6,549	6					
Exterior Lighting										
High Efficiency Exterior Lighting	12	$1,123	11,681	2,655	0					
Residential Water Heating (low income included)										
High Efficiency Water Heater	30	$5,951	44,955	2,997	1	28	$4,300	69,464	4,631	1
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet										
Flow Restrictors - Shower										
Tank Insulation										
Pipe Insulation										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer										
ENERGY STAR Qualified Dishwasher										
Additional Low Income										
Energy Efficiency Kits						100	$1,523	1,016,982	112,998	14
Building Shell - Existing Home Only										
Weatherization Rebates										
Residential Total	**213**	**$68,240**	**7,114,648**	**390,483**	**68**	**154**	**$77,338**	**4,828,615**	**309,822**	**44**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	197	$6,266	623,055	78,790	2	66	$5,727	314,124	40,620	1
Exterior Lighting										
High Efficiency Exterior Lighting						13	$500	86,032	7,821	
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning										
Geothermal Heat Pump	17	$25,004	295,127	14,756	2					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)										
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**215**	**$32,546**	**990,359**	**98,359**	**5**	**79**	**$6,227**	**400,156**	**48,442**	**1**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600				1	$750			
Expert Energy Services - C&I	3	$9,000								
Energy Audit Services - Residential *	24	$2,400				2	$500			
IV. Educational & Research Programs										
Member Information and Education	3,450	$23,000				4,981	$6,910			
Peak Alert										
Living with Energy in Iowa	3,450	$23,000				4,981	$20,793			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	3,450	$8,475				4,981	$11,026			
TOTAL	**10,808**	**$167,261**	**8,105,007**	**488,841**	**73**	**15,179**	**$123,544**	**5,228,771**	**358,264**	**45**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Clarke Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Clarke Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant. Clarke Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our members. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Clarke Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by our board of directors.

Clarke Electric Cooperative offers a robust portfolio of energy efficiency programs to our members in various classes of electric service. We offer programs for residential members in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Clarke Electric Cooperative offers similar programs for the small commercial members but alters them to allow for equipment used in a commercial setting. For the large industrial members of Clarke Electric Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-

consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Clarke Electric Cooperative also offers energy audits including blower door testing and infrared evaluations to all member-consumers.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Clarke Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Using our monthly newsletter “The Closed Circuit”, we give our members tips on how they can save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Clarke Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, and during presentations both to the schools and to civic organizations. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can help them save on their energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. For example, while a GE GeoSpring Hybrid water heater is about 3 times more expensive than a 95% efficient Rheem electric water heater, it uses about 69% less energy. In other words you can save up to $365/yr in operating costs. A simple payback would be 3 years. Because Clarke sees how important these water heaters are to energy savings, we became the wholesale distributor for all of the cooperatives in Iowa. As a member of the National Rural Electric Cooperative Association (NRECA), Clarke Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Clarke Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local businesses such as appliance retailers and HVAC contractors to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Clarke Electric Cooperative. Clarke Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Clarke Electric Cooperative, Inc.	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	20	$2,598	69,432	14,878	4,959	57	$8,312	245,618	53,931	17,544
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	5	$162	4,414	1,471	490	24	$760	22,535	8,097	2,503
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	214	$521,655	56,429,327	9,347,756	2,821,467	127	$238,209	33,488,432	5,036,451	1,674,422
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	90	$112,494	10,364,280	2,291,980	690,952	59	$45,757	6,472,081	1,312,444	431,473
Heat Recovery Ventilators	Rebate for heat recovery ventilators.						9	$1,395	111,885	17,407	5,595
Residential Contractor Rebates	Incentive for heat pump installs	275	$58,466				152	$38,351			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	4,771	$12,402	2,264,672	965,410	310,229	35,559	$71,549	15,315,152	4,921,866	2,097,966
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	5,285	$13,738	2,508,655	1,069,448	343,651	1,186	$3,096	562,964	332,533	77,118
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						75	$711	163,662	15,056	8,183
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.						385	$5,290	444,487	33,986	27,102
ENERGY STAR LED lighting	Rebate for LED lighting.						489	$5,747	649,946	53,093	36,109
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.						11	$224	32,951	4,825	1,830
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	561	$21,956	557,687	388,600	126,747	317	$9,317	423,057	298,176	96,149
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	222	$29,191	760,532	166,257	50,702	124	$16,406	427,191	101,108	28,479
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	32	$22,749	734,263	105,168	61,189	74	$47,428	1,697,984	382,428	141,498
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	5	$2,273	111,422	27,856	9,285					
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	505	$22,297	1,673,021	505,403	185,891	288	$594	954,119	530,066	106,013
Flow Restrictors - Shower	Incentive for low-flow shower head.	505	$37,162	3,172,395	862,514	317,239	288	$885	1,809,207	904,604	180,921
Tank Insulation	Incentive for water heater tank insulation.	40	$779	67,889	20,367	6,789					
Pipe Insulation	Incentive for water pipe insulation.	40	$779	70,755	14,151	4,717					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	185	$13,632	448,555	120,129	40,778	195	$14,120	479,444	140,164	43,586
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	130	$4,219	167,056	44,393	15,187	104	$3,295	133,645	36,212	12,149
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	100	$3,290	157,049	31,410	10,470	234	$7,371	367,496	77,689	24,500
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	135	$4,381	380,291	92,725	31,691	29	$890	81,693	23,239	6,807
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	120	$3,894	132,913	25,844	8,861	61	$1,933	67,564	13,142	4,504
Appliance Recycling	Incentives for appliance recycling.	210	$16,059	2,253,772	733,370	250,419	114	$9,407	913,333	327,162	101,482
Efficient Television	Rebate for efficient television.	102	$5,294	202,346	48,107	16,862	54	$2,822	107,125	21,822	8,927
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.						17	$8,721	254,089	46,607	15,374
Advanced Lighting Package							2	$405	17,193	4,298	860
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	164	$7,504	1,662,487	741,136	184,721					
Weatherization Rebates	Rebates for various insulation measures.	40	$15,135	765,475	103,936	26,061					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	171	$55,726	3,082,326	393,405	105,488	33	$11,656	742,860	66,295	24,761
Residential Total		**13,928**	**$987,837**	**88,041,013**	**18,115,715**	**5,624,846**	**40,067**	**$554,651**	**65,985,712**	**14,762,700**	**5,175,857**
Percentage of 5 year plan goal - Residential								**56%**	**75%**		**92%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Clarke Electric Cooperative, Inc.	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	857	$2,228	462,427	399,595	128,452	2,711	$5,560	1,274,377	742,522	353,993
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	1,917	$33,536	2,247,453	1,316,652	459,305	305	$8,144	433,988	141,893	66,768
Ag/Commercial & Industrial Heating and Cooling											
Air Cooled Chillers	Rebate for water cooled chillers.						140	$3,596	1,297,546	194,631	64,877
Geothermal Heat Pump	Rebate for geothermal heat pump.	36	$16,365	1,533,065	229,960	76,653	18	$3,468	408,204	81,642	27,214
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.						7	$1,475	151,619	20,216	10,108
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	36	$1,870								
Ag/Commercial & Industrial Motors											
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	5	$7,793	1,851,197	370,239	123,413	3	$7,655	1,615,772	323,154	107,718
Agricultural											
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	14	$1,684	73,876	16,270	6,156					
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	5	$162	13,556	3,389	1,130					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	23	$1,533	90,950	16,147	7,579					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	15	$1,461	142,039	35,510	11,837	3	$200	28,407	7,890	2,367
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	99	$385	65,901	46,098	16,475					
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	10	$325	19,948	5,984	1,995					
Hog Farrowing - Heat Lamp or Pad Controller	Rebate for controller for heat pad or lamp.	5	$325	38,679	7,075	2,358					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		6	$86,706	7,017,622	2,122,500	530,625	1	$3,224	331,884	82,971	27,657
Ag, Commercial and Industrial Total		**3,028**	**$154,374**	**13,556,713**	**4,569,420**	**1,365,978**	**3,188**	**$33,322**	**5,541,797**	**1,594,919**	**660,702**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**22%**	**41%**		**48%**

II. Demand Response Programs											
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	10	$6,000								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	5	$3,500								
Energy Audit Services - Residential *	Energy Audit Services - Residential	100	$12,500				25	$8,352			
IV. Educational & Research Programs											
Domestic Water Heater Enhancement	Domestic Water Heater Enhancement							$1,575			
Member Information and Education	Member Information and Education	1,500	$4,000				21,997	$95,950			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	1,810	$8,640				1,298	$3,476			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$52,265				21,997	$57,148			
TOTAL		**20,381**	**$1,229,116**	**101,597,726**	**22,685,135**	**6,990,824**	**88,572**	**$754,473**	**71,527,509**	**16,357,618**	**5,836,558**
Percentage of 5 year plan goal achieved								**61%**	**70%**		**83%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Clarke Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	4	$526	13,886	992	1	13	1,575	59,172	4,227	4
ENERGY STAR Qualified Room Air Conditioner	1	$33	883	98	0	5	$131	4,414	490	0
Geothermal Heat Pump	47	$125,230	12,393,357	619,668	20	21	$30,892	5,537,457	276,873	10
Air Source Heat Pump	20	$28,618	2,339,538	155,969	6	13	$8,423	1,520,700	101,380	4
Heat Recovery Ventilators						1	$52	12,432	622	
Residential Contractor Rebates	61	$12,200				31	$6,279			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,031	$2,713	489,389	67,040	62	2,354	$3,448	1,249,871	171,215	156
Local CFL Rebate Program(s)	1,142	$3,005	542,078	74,257	69	864	$2,023	410,119	56,181	57
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures										
ENERGY STAR LED lighting										
ENERGY STAR Ceiling Fan										
Exterior Lighting										
High Efficiency Exterior Lighting	120	$4,737	119,291	27,112	1	76	$2,304	90,661	20,605	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	53	$6,908	180,408	12,027	2	39	$4,894	134,104	8,940	1
Heat Pump Water Heater - (Integrated)	2	$1,447	45,891	3,824	0	9	$4,543	206,511	17,209	2
Solar Water Heaters (w/ Electric auxiliary tank)	1	$461	22,284	1,857	0					
Flow Restrictors - Faucet	85	$3,355	281,598	31,289	2	288	$594	954,119	106,013	6
Flow Restrictors - Shower	85	$5,592	533,967	53,397	4	288	$885	1,809,207	180,921	16
Tank Insulation	8	$158	13,578	1,358	0					
Pipe Insulation	8	$158	14,151	943	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	35	$2,579	84,862	7,715	3	54	$3,024	113,472	10,316	4
ENERGY STAR Qualified Dishwasher	24	$789	30,841	2,804	2	19	$492	24,416	2,220	2
ENERGY STAR Qualified Refrigerator	20	$658	31,410	2,094	0	52	$1,346	81,666	5,444	1
ENERGY STAR Qualified Dehumidifier	25	$822	70,424	5,869	1	9	$233	25,353	2,113	0
ENERGY STAR Qualified Freezer	22	$724	24,367	1,624	0	10	$259	11,076	738	0
Appliance Recycling	40	$3,059	429,290	47,699	8	39	$2,232	270,925	30,103	8
Efficient Television	17	$895	33,724	2,810	1	1	$41	1,984	165	0
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						3	$1,514	99,189	3,306	1
Advanced Lighting Package						2	$405	17,193	860	0
Additional Low Income										
Energy Efficiency Kits	52	$2,395	527,130	58,570	7					
Weatherization Rebates	12	$4,816	248,964	8,481	2					
Building Shell - Existing Home Only										
Weatherization Rebates	46	$15,199	827,886	28,360	5	2	$700	53,926	1,798	
Residential Total	**2,961**	**$227,078**	**19,299,201**	**1,215,857**	**195**	**4,193**	**$76,289**	**12,687,965**	**1,001,738**	**275**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Clarke Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	185	$487	99,824	27,729	11					
High Efficiency Interior Lighting	326	$6,855	372,356	76,484	1					
Ag/Commercial & Industrial Heating and Cooling										
Air Cooled Chillers										
Geothermal Heat Pump	12	$5,526	511,022	25,551	1					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)	12	$632								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,579	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	2	$241	10,554	879	0					
Ventilation Thermostat Controller	1	$33	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	2	$97	7,909	659	0					
Efficient Livestock Waterers	3	$296	28,408	2,367						
Hog Farrowing - Heat Lamps (<= 175W)	15	$59	9,985	2,496						
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$66	3,990	399						
Hog Farrowing - Heat Lamp or Pad Controller	1	$66	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$29,091	2,339,207	176,875	18					
Ag, Commercial and Industrial Total	**564**	**$45,028**	**3,763,940**	**338,820**	**34**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$1,200								
Expert Energy Services - C&I	1	$700								
Energy Audit Services - Residential *	20	$2,500								
IV. Educational & Research Programs										
Domestic Water Heater Enhancement										
Member Information and Education	300	$800				4,385	$63,373			
Living with Energy in Iowa	350	$1,680				276	$773			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,453				4,385	$10,946			
TOTAL	**4,198**	**$289,438**	**23,063,141**	**1,554,676**	**229**	**13,239**	**$151,381**	**12,687,965**	**1,001,738**	**275**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Clarke Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	4	$523	13,886	992	1	12	2,091	58,506	4,179	4
ENERGY STAR Qualified Room Air Conditioner	1	$33	883	98	0	5	$180	4,414	490	
Geothermal Heat Pump	54	$142,941	14,239,176	711,959	23	28	$54,734	7,383,276	369,164	13
Air Source Heat Pump	22	$31,438	2,573,492	171,566	7	12	$9,502	1,250,310	83,354	2
Heat Recovery Ventilators						3	$541	37,295	1,865	
Residential Contractor Rebates	70	$14,000				33	$9,516			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,031	$2,695	489,389	67,040	62	1,710	$4,068	832,572	114,051	21
Local CFL Rebate Program(s)	1,142	$2,986	542,078	74,257	69	70	$202	33,227	4,552	5
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures						3	$43	1,681	102	
ENERGY STAR LED lighting										
ENERGY STAR Ceiling Fan										
Exterior Lighting										
High Efficiency Exterior Lighting	115	$4,539	114,321	25,982	1	67	$5,236	70,532	16,030	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	53	$6,906	180,408	12,027	2	36	$5,119	121,837	8,122	1
Heat Pump Water Heater - (Integrated)	2	$1,447	45,891	3,824	0	15	$10,814	344,186	28,682	3
Solar Water Heaters (w/ Electric auxiliary tank)	1	$458	22,284	1,857	0					
Flow Restrictors - Faucet	80	$4,157	265,033	29,448	2					
Flow Restrictors - Shower	80	$6,928	502,558	50,256	4					
Tank Insulation	8	$157	13,578	1,358	0					
Pipe Insulation	8	$157	14,151	943	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	36	$2,654	87,286	7,935	3	43	$3,785	115,363	10,488	4
ENERGY STAR Qualified Dishwasher	25	$817	32,126	2,921	2	20	$721	25,701	2,336	2
ENERGY STAR Qualified Refrigerator	20	$658	31,410	2,094	0	48	$1,730	75,384	5,026	1
ENERGY STAR Qualified Dehumidifier	26	$850	73,241	6,103	1	4	$144	11,268	939	
ENERGY STAR Qualified Freezer	23	$752	25,475	1,698	0	10	$360	11,076	738	
Appliance Recycling	40	$3,059	429,290	47,699	8	15	$1,413	129,174	14,353	3
Efficient Television	19	$993	37,692	3,141	1	10	$577	19,838	1,653	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						2	$1,442	66,126	2,204	
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits	62	$2,837	628,501	69,833	8					
Weatherization Rebates	14	$5,176	258,255	8,790	2					
Building Shell - Existing Home Only										
Weatherization Rebates	53	$17,482	957,774	32,840	6	11	$2,875	171,961	5,732	1
Residential Total	**2,989**	**$254,641**	**21,578,180**	**1,334,663**	**201**	**2,157**	**$115,093**	**10,763,727**	**674,060**	**61**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Clarke Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	185	$484	99,824	27,729	11	143	$340	72,405	20,112	2
High Efficiency Interior Lighting	363	$8,525	423,678	86,757	1	43	$2,815	106,151	16,331	
Ag/Commercial & Industrial Heating and Cooling										
Air Cooled Chillers										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,569	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	2	$241	10,554	879	0					
Ventilation Thermostat Controller	1	$33	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	3	$291	11,863	989	0					
Efficient Livestock Waterers	3	$294	28,408	2,367		1	$72	9,469	789	
Hog Farrowing - Heat Lamps (<= 175W)	18	$71	11,982	2,996						
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$65	3,990	399						
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$28,901	2,339,207	176,875	18					
Ag, Commercial and Industrial Total	**581**	**$40,539**	**3,310,192**	**324,371**	**33**	**187**	**$3,227**	**188,025**	**37,232**	**2**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$1,200								
Expert Energy Services - C&I	1	$700								
Energy Audit Services - Residential *	20	$2,500				25	$2,250			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement										
Member Information and Education	300	$800				4,416	$19,163			
Living with Energy in Iowa	360	$1,680				267	$748			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,453				4,416	$10,994			
TOTAL	**4,253**	**$312,513**	**24,888,372**	**1,659,034**	**234**	**11,468**	**$151,475**	**10,951,752**	**711,292**	**63**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Clarke Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	4	$519	13,886	992	1	8	1,092	27,773	1,984	2
ENERGY STAR Qualified Room Air Conditioner	1	$32	883	98	0	7	$225	7,528	836	1
Geothermal Heat Pump	59	$155,162	15,557,618	777,881	25	32	$61,857	8,438,030	421,902	15
Air Source Heat Pump	24	$34,221	2,807,445	187,163	7	11	$9,400	1,194,698	79,647	3
Heat Recovery Ventilators						1	$161	12,432	622	
Residential Contractor Rebates	77	$15,400				37	$9,504			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	979	$2,543	464,706	63,658	59	9,174	$19,424	4,083,262	559,351	77
Local CFL Rebate Program(s)	1,085	$2,818	515,022	70,551	65	96	$280	45,569	6,242	6
ENERGY STAR CFL/LED Fixtures						30	$308	65,465	3,273	1
T8 or better Lighting Fixtures						30	$534	31,847	1,942	1
ENERGY STAR LED lighting						34	$1,040	45,191	2,511	1
ENERGY STAR Ceiling Fan						8	$154	23,964	1,331	
Exterior Lighting										
High Efficiency Exterior Lighting	115	$4,539	114,321	25,982	1	61	$116	64,936	14,758	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	53	$6,904	180,408	12,027	2	20	$2,697	73,020	4,868	1
Heat Pump Water Heater - (Integrated)	3	$2,171	68,837	5,736	1	15	$9,633	344,186	28,682	3
Solar Water Heaters (w/ Electric auxiliary tank)	1	$455	22,284	1,857	0					
Flow Restrictors - Faucet	80	$4,753	265,033	29,448	2					
Flow Restrictors - Shower	80	$7,922	502,558	50,256	4					
Tank Insulation	8	$156	13,578	1,358	0					
Pipe Insulation	8	$156	14,151	943	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	37	$2,727	89,711	8,156	3	33	$2,517	87,165	7,924	3
ENERGY STAR Qualified Dishwasher	26	$844	33,411	3,037	2	26	$835	33,411	3,037	3
ENERGY STAR Qualified Refrigerator	20	$658	31,410	2,094	0	53	$1,702	83,236	5,549	1
ENERGY STAR Qualified Dehumidifier	27	$877	76,058	6,338	1	10	$321	28,170	2,347	
ENERGY STAR Qualified Freezer	24	$779	26,583	1,772	0	18	$578	19,937	1,329	
Appliance Recycling	40	$3,059	429,290	47,699	8	18	$1,779	176,378	19,598	4
Efficient Television	21	$1,091	41,659	3,472	1	15	$771	29,757	2,480	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						7	$3,339	51,281	5,698	2
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits	50	$2,273	506,856	56,317	7					
Weatherization Rebates	14	$5,143	258,255	8,790	2					
Building Shell - Existing Home Only										
Weatherization Rebates	59	$18,956	1,044,284	35,874	6	7	$2,558	152,685	5,089	1
Residential Total	**2,895**	**$274,158**	**23,078,248**	**1,401,501**	**197**	**9,751**	**$130,825**	**15,119,921**	**1,181,000**	**127**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Clarke Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	176	$457	94,968	26,380	11	738	$1,568	364,111	101,142	6
High Efficiency Interior Lighting	396	$5,851	467,855	95,407	1					
Ag/Commercial & Industrial Heating and Cooling										
Air Cooled Chillers						140	$3,596	1,297,546	64,877	7
Geothermal Heat Pump	12	$5,455	511,022	25,551	1	18	$3,468	408,204	27,214	2
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)	12	$623								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,558	370,239	24,683	2	3	$7,655	1,615,772	107,718	12
Agricultural										
Livestock Ventilation Fans	3	$361	15,831	1,319	0					
Ventilation Thermostat Controller	1	$32	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	3	$291	11,863	989	0					
Efficient Livestock Waterers	3	$292	28,408	2,367		2	$128	18,938	1,578	
Hog Farrowing - Heat Lamps (<= 175W)	21	$82	13,979	3,495						
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$65	3,990	399						
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$28,713	2,339,207	176,875	18	1	$3,224	331,884	27,657	1
Ag, Commercial and Industrial Total	**633**	**$43,846**	**3,867,808**	**358,162**	**34**	**902**	**$19,639**	**4,036,455**	**330,186**	**28**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$1,200								
Expert Energy Services - C&I	1	$700								
Energy Audit Services - Residential *	20	$2,500					$1,300			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement							$1,575			
Member Information and Education	300	$800				4,397	$3,250			
Living with Energy in Iowa	370	$1,776				263	$690			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,453				4,397	$11,084			
TOTAL	**4,221**	**$335,434**	**26,946,056**	**1,759,663**	**231**	**19,710**	**$168,363**	**19,156,376**	**1,511,186**	**155**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Clarke Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	4	$516	13,886	992	1	12	$1,589	41,659	2,976	3
ENERGY STAR Qualified Room Air Conditioner	1	$32	883	98	0	5	$160	4,414	490	0
Geothermal Heat Pump	27	$49,161	7,119,588	355,980	13	23	$44,388	6,064,834	303,242	11
Air Source Heat Pump	12	$9,108	1,321,903	88,127	3	9	$7,403	991,427	66,095	2
Heat Recovery Ventilators						4	$641	49,727	2,486	
Residential Contractor Rebates	34	$8,433				24	$6,157			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	901	$2,325	427,682	58,587	54	11,976	$24,208	4,950,742	678,184	93
Local CFL Rebate Program(s)	998	$2,575	473,725	64,894	60	70	$310	33,227	4,552	5
ENERGY STAR CFL/LED Fixtures						3	$154	6,546	327	0
T8 or better Lighting Fixtures						28	$1,701	44,174	2,694	1
ENERGY STAR LED lighting						162	$1,444	215,319	11,962	7
ENERGY STAR Ceiling Fan						2	$51	5,991	333	0
Exterior Lighting										
High Efficiency Exterior Lighting	104	$4,026	103,386	23,497	1	63	$1,642	184,805	42,001	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	32	$4,237	109,654	7,310		12	$1,539	41,494	2,766	0
Heat Pump Water Heater - (Integrated)	3	$2,171	68,837	5,736	1	15	$9,620	344,186	28,682	3
Solar Water Heaters (w/ Electric auxiliary tank)	1	$452	22,284	1,857	0					
Flow Restrictors - Faucet	128	$4,955	424,053	47,117	3					
Flow Restrictors - Shower	128	$8,258	804,092	80,409	6					
Tank Insulation	8	$155	13,578	1,358	0					
Pipe Insulation	8	$155	14,151	943	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	38	$2,800	92,136	8,376	3	36	$2,604	88,038	8,003	3
ENERGY STAR Qualified Dishwasher	27	$871	34,696	3,154	2	18	$577	23,131	2,103	2
ENERGY STAR Qualified Refrigerator	20	$658	31,410	2,094	0	50	$1,603	78,525	5,235	1
ENERGY STAR Qualified Dehumidifier	28	$903	78,875	6,573	1	2	$64	5,634	469	0
ENERGY STAR Qualified Freezer	25	$806	27,690	1,846	0	11	$353	12,184	812	0
Appliance Recycling	45	$3,441	482,951	53,661	9	28	$2,552	207,126	23,014	6
Efficient Television	22	$1,135	43,643	3,637	1	14	$718	27,773	2,314	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits										
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	7	$2,044	126,191	4,206	1	6	$2,917	209,090	6,970	1
Residential Total	**2,600**	**$109,218**	**11,835,293**	**820,452**	**159**	**12,573**	**$112,395**	**13,630,047**	**1,195,711**	**140**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Clarke Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	162	$418	87,413	24,281	10	980	$1,982	453,270	125,908	8
High Efficiency Interior Lighting	416	$6,163	491,782	100,329	1	209	$2,473	169,864	26,133	1
Ag/Commercial & Industrial Heating and Cooling										
Air Cooled Chillers										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)						7	$1,475	151,619	10,108	1
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,548	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	3	$361	15,831	1,319	0					
Ventilation Thermostat Controller	1	$32	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	3	$291	11,863	989	0					
Efficient Livestock Waterers	3	$290	28,408	2,367						
Hog Farrowing - Heat Lamps (<= 175W)	22	$85	14,645	3,661						
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$65	3,990	399						
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**614**	**$9,318**	**1,034,617**	**158,726**	**14**	**1,196**	**$5,930**	**774,753**	**162,149**	**10**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$1,200								
Expert Energy Services - C&I	1	$700								
Energy Audit Services - Residential *	20	$2,500					$601			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement										
Member Information and Education	300	$800				4,399	$7,629			
Living with Energy in Iowa	380	$1,824				248	$619			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,453				4,399	$11,995			
TOTAL	**3,917**	**$136,014**	**12,869,911**	**979,178**	**173**	**22,815**	**$139,169**	**14,404,800**	**1,357,860**	**150**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Clarke Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	4	$513	13,886	992	1	12	$1,965	58,508	4,179	4
ENERGY STAR Qualified Room Air Conditioner	1	$32	883	98	0	2	$64	1,766	196	0
Geothermal Heat Pump	27	$49,161	7,119,588	355,980	13	23	$46,338	6,064,834	303,242	11
Air Source Heat Pump	12	$9,108	1,321,903	88,127	3	14	$11,029	1,514,947	100,996	3
Heat Recovery Ventilators										
Residential Contractor Rebates	34	$8,433				27	$6,895			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	829	$2,126	393,505	53,905	50	10,345	$20,401	4,198,705	575,165	79
Local CFL Rebate Program(s)	918	$2,354	435,751	59,692	55	86	$281	40,822	5,592	6
ENERGY STAR CFL/LED Fixtures						42	$249	91,651	4,583	2
T8 or better Lighting Fixtures						324	$3,012	366,785	22,365	3
ENERGY STAR LED lighting						293	$3,263	389,436	21,635	13
ENERGY STAR Ceiling Fan						1	$19	2,996	166	0
Exterior Lighting										
High Efficiency Exterior Lighting	107	$4,115	106,368	24,175	1	50	$19	12,123	2,755	6
Residential Water Heating (low income included)										
High Efficiency Water Heater	32	$4,237	109,654	7,310		17	$2,157	56,736	3,782	1
Heat Pump Water Heater - (Integrated)	22	$15,513	504,806	42,067	5	20	$12,818	458,914	38,243	5
Solar Water Heaters (w/ Electric auxiliary tank)	1	$449	22,284	1,857	0					
Flow Restrictors - Faucet	132	$5,077	437,304	48,589	3					
Flow Restrictors - Shower	132	$8,462	829,220	82,922	7					
Tank Insulation	8	$154	13,578	1,358	0					
Pipe Insulation	8	$154	14,151	943	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	39	$2,872	94,560	8,596	3	29	$2,190	75,406	6,855	3
ENERGY STAR Qualified Dishwasher	28	$897	35,981	3,271	3	21	$670	26,986	2,453	2
ENERGY STAR Qualified Refrigerator	20	$658	31,410	2,094	0	31	$990	48,685	3,246	0
ENERGY STAR Qualified Dehumidifier	29	$929	81,692	6,808	1	4	$128	11,268	939	0
ENERGY STAR Qualified Freezer	26	$833	28,798	1,920	0	12	$383	13,291	886	0
Appliance Recycling	45	$3,441	482,951	53,661	9	14	$1,431	129,729	14,414	3
Efficient Television	23	$1,179	45,627	3,802	1	14	$715	27,773	2,314	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						5	$2,426	37,493	4,166	1
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits										
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	7	$2,044	126,191	4,206	1	7	$2,606	155,198	5,173	1
Residential Total	**2,483**	**$122,741**	**12,250,091**	**852,373**	**154**	**11,393**	**$120,049**	**13,784,051**	**1,123,347**	**143**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Clarke Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	149	$382	80,399	22,333	9	850	$1,670	384,591	106,831	7
High Efficiency Interior Lighting	416	$6,142	491,782	100,329	1	53	$2,856	157,973	24,304	1
Ag/Commercial & Industrial Heating and Cooling										
Air Cooled Chillers										
Geothermal Heat Pump	12	$5,385	511,022	25,551	1					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)	12	$615								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,538	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	4	$480	21,107	1,759	1					
Ventilation Thermostat Controller	1	$32	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	12	$564	47,452	3,954	1					
Efficient Livestock Waterers	3	$288	28,408	2,367						
Hog Farrowing - Heat Lamps (<= 175W)	23	$88	15,310	3,828						
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$64	3,990	399						
Hog Farrowing - Heat Lamp or Pad Controller	1	$64	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**636**	**$15,643**	**1,580,156**	**185,900**	**16**	**903**	**$4,526**	**542,564**	**131,134**	**8**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$1,200								
Expert Energy Services - C&I	1	$700								
Energy Audit Services - Residential *	20	$2,500					$4,201			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement										
Member Information and Education	300	$800				4,400	$2,535			
Living with Energy in Iowa	350	$1,680				244	$645			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,453				4,400	$12,129			
TOTAL	**3,792**	**$155,717**	**13,830,247**	**1,038,273**	**170**	**21,340**	**$144,085**	**14,326,616**	**1,254,482**	**150**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before January 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required ... and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on December 31, 2008, with the Board and the Iowa Attorney General's Office of Consumer Advocate. Consumers Energy was included as a part of this filing. This filing, among other things, explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before January 1, 2010. This filing was made by the IAEC on or about December 31, 2009, on behalf of Consumers Energy and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost-effective energy efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant. Consumers Energy developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Consumers Energy and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Consumers Energy Cooperative.

Consumers Energy offers a portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Consumers Energy offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment; water heaters; and appliances. Consumers Energy offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Consumers Energy we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Consumers Energy also offers energy audits and advice for all member-consumers. Consumers Energy helps member-consumers take ownership of the energy usage through the use of an Energy Usage Self-Assessment (EUSA). The EUSA tool is used by the cooperative's Energy Advisors to help members take an inventory of their energy consumption and habits.

In addition to the rebate opportunities, Consumers Energy offers one demand response program that helps us to be both environmentally and fiscally responsible. This program is an optional residential time-of-day (TOD) rate that allows member-consumers to receive a reduced kWh rate during the off-peak period. The TOD rate encourages member-consumers to shift their high demand usage away from our distribution system peak period of 5:00p.m. to 7:00p.m.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Consumers Energy is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Consumers Energy publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Consumers Energy consistently shares the energy efficiency message on our Website, in our newsletter, at home shows and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to "get the facts" and make smart, strategic choices that can save on energy bills and the environment.

Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment - the cost to operate the product over

its lifetime. Lifetime cost estimate examples are: switching to just one compact fluorescent lamp can save up to $50 over the usable life of the lamp; or unplugging and recycling the old refrigerator in the garage can save up to $200 a year. Consumers Energy advisors help members calculate the purchase and operating cost for HVAC, water heating, and lighting options that are available to them. As a member of the National Rural Electric Cooperative Association (NRECA), Consumers Energy has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Consumers Energy participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumers, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost-effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs, our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Consumers Energy Cooperative. Consumers Energy Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Consumers Energy	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	103	$15,665	507,812	107,548	36,272	132	$19,666	637,975	147,429	45,570
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.						13	$389	11,477	3,532	1,275
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	193	$242,408	50,891,870	7,132,772	2,544,594	130	$181,502	34,015,810	5,471,537	1,700,791
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	84	$45,696	9,826,059	1,902,824	655,071	97	$70,440	10,917,204	2,279,835	727,814
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	25	$3,450	310,792	46,619	15,540	17	$2,465	211,338	31,081	10,568
Residential Contractor Rebates	Incentive for heat pump installs	201	$42,813				195	$44,935			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	2,895	$6,948	1,374,183	739,647	188,244	37,852	$72,270	16,291,186	5,213,385	2,231,670
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	3,400	$20,400	1,613,893	968,856	221,081	2,285	$5,833	1,084,631	656,482	148,580
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.	5	$50	10,911	2,182	546	23	$429	50,190	5,567	2,510
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	96	$2,688	95,325	17,008	5,812	249	$4,771	289,661	32,671	17,662
ENERGY STAR LED lighting	Rebate for LED lighting.	37		49,178	6,498	2,732	798	$9,589	1,060,648	84,621	58,925
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	43	$645	128,807	18,972	7,156	17	$313	50,924	10,484	2,829
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	580	$24,940	576,575	384,082	131,040	312	$12,753	446,790	346,118	101,543
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	520	$286,000	2,036,020	402,167	135,735	417	$119,934	1,895,204	408,444	126,346
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	85	$43,945	1,950,386	382,429	162,532	101	$70,553	2,317,518	451,265	193,126
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	165	$2,145	546,631	204,296	60,737	374	$1,505	708,963	276,445	78,774
Flow Restrictors - Shower	Incentive for low-flow shower head.	190	$3,230	1,193,574	427,174	119,357	201	$2,094	1,262,676	491,252	126,268
Tank Insulation	Incentive for water heater tank insulation.	6	$144	10,183	5,092	1,018	12	$63	15,186	6,413	1,518
Pipe Insulation	Incentive for water pipe insulation.	6	$90	10,613	3,538	708	19	$289	33,609	11,203	2,241
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	269	$17,408	652,223	164,213	59,293	338	$22,853	807,524	236,648	73,411
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	113	$4,633	145,210	36,682	13,201	151	$4,927	194,042	57,477	17,640
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	275	$11,000	431,885	80,619	28,792	341	$10,847	533,967	114,333	35,598
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	35	$1,330	98,594	29,343	8,216	30	$987	84,509	23,006	7,042
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	52	$1,976	57,596	11,815	3,840	57	$1,815	63,134	14,029	4,209
Appliance Recycling	Incentives for appliance recycling.	135	$6,050	1,338,453	510,039	148,785	133	$11,012	1,100,612	360,862	122,291
Efficient Television	Rebate for efficient television.	36	$1,908	71,416	21,491	5,951	65	$3,112	128,945	24,303	10,746
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	27	$13,959	892,701	92,576	29,757	22	$12,271	727,386	81,558	24,247
Advanced Lighting Package		2	$426	17,193	4,298	860					
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	130	$1,170	1,317,825	630,754	146,425					
Weatherization Rebates	Rebates for various insulation measures.	25	$10,725	637,422	71,418	21,429					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	94	$27,198	1,600,205	224,265	54,104	79	$30,899	1,975,184	169,795	65,840
Residential Total		**9,827**	**$839,040**	**78,393,535**	**14,629,217**	**4,808,827**	**44,460**	**$718,517**	**76,916,295**	**17,009,775**	**5,939,032**
Percentage of 5 year plan goal - Residential								**86%**	**98%**		**124%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Consumers Energy	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	186	$2,211	100,363	132,199	27,879	2,384	$4,634	1,217,871	697,026	338,297
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	1,315	$73,830	2,207,416	1,235,201	379,660	2,860	$65,252	5,439,957	3,307,956	849,994
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	100	$3,000	110,706	67,779	22,593					
Ag/Commercial & Industrial Heating and Cooling											
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	13	$3,120	303,237	101,079	20,216					
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	13	$520								
Ag/Commercial & Industrial Motors											
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	15	$19,935	5,553,592	1,061,353	370,239	7	$12,392	2,606,810	1,101,127	407,314
Agricultural											
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	15	$1,807	79,153	32,980	6,596					
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	1	$33	2,711	1,130	226					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	9	$434	35,589	14,829	2,966					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	8	$400	75,754	23,673	6,313	2	$111	18,938	6,312	1,578
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	18	$71	11,982	14,978	2,996					
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	2	$66	3,990	1,995	399					
Hog Farrowing - Heat Lamp or Pad Controller	Rebate for controller for heat pad or lamp.	1	$66	7,736	2,358	472					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		2	$148,792	2,829,743	1,069,830	213,966					
Ag, Commercial and Industrial Total		**1,698**	**$254,283**	**11,321,972**	**3,759,384**	**1,054,520**	**5,253**	**$82,389**	**9,283,577**	**5,112,420**	**1,597,183**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**32%**	**82%**		**151%**

II. Demand Response Programs											
Residential Time-of-Day Price	Residential time of day price.	250	$27,000				1,044	$239,490			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	150	$112,500				11	$4,495			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	5	$5,000								
Energy Audit Services - Residential *	Energy Audit Services - Residential	44	$20,000				9	$10,258			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	4,800	$100,000				25,066	$128,884			
Peak Alert	Peak Alert	4,800									
Living with Energy in Iowa	Living with Energy in Iowa magazine.	20,050	$141,000				20,209	$46,062			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	26,800	$75,000				25,066	$69,222			
TOTAL		**68,424**	**$1,573,823**	**89,715,507**	**18,388,601**	**5,863,347**	**121,118**	**$1,299,317**	**86,199,871**	**22,122,195**	**7,536,215**
Percentage of 5 year plan goal achieved								**83%**	**96%**		**129%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Consumers Energy	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	21	$3,282	81,328	5,809	6	33	5,314	173,534	12,395	13
ENERGY STAR Qualified Room Air Conditioner						1	$38	883	98	0
Geothermal Heat Pump	30	$37,680	7,910,653	395,533	13	27	$34,252	7,119,588	355,979	13
Air Source Heat Pump	17	$9,248	1,988,607	132,574	5	14	$8,776	1,637,677	109,178	5
Heat Recovery Ventilators	5	$690	62,158	3,108		1	$139	12,432	622	
Residential Contractor Rebates	47	$10,011				34	$7,251			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,495	$3,588	709,638	97,211	90	2,515	$3,765	1,335,650	182,966	166
Local CFL Rebate Program(s)	2,500	$15,000	1,186,686	162,560	150	1,250	$3,567	593,343	81,280	83
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	21	$588	19,087	1,164	0					
ENERGY STAR LED lighting										
ENERGY STAR Ceiling Fan	2	$30	5,991	333	0					
Exterior Lighting										
High Efficiency Exterior Lighting	100	$4,300	99,409	22,593	1	130	$5,500	155,079	35,245	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	100	$55,000	405,848	27,057	4	110	$55,109	487,762	32,517	5
Heat Pump Water Heater - (Integrated)	10	$5,170	229,457	19,121	2	2	$1,034	45,891	3,824	0
Flow Restrictors - Faucet	75	$975	248,468	27,608	2	76	$1,236	251,781	27,976	2
Flow Restrictors - Shower	100	$1,700	628,197	62,820	5	77	$1,354	483,712	48,371	4
Tank Insulation	6	$144	10,183	1,018	0	2	$30	3,394	339	0
Pipe Insulation	6	$90	10,613	708	0	19	$289	33,609	2,241	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	29		70,314	6,392	2	85	$5,807	178,614	16,238	7
ENERGY STAR Qualified Dishwasher	12	$492	15,421	1,402	1	41	$1,677	52,687	4,790	4
ENERGY STAR Qualified Refrigerator	30	$1,200	47,115	3,141	0	77	$3,042	120,928	8,062	1
ENERGY STAR Qualified Dehumidifier	15	$570	42,255	3,521	0	11	$417	30,987	2,582	0
ENERGY STAR Qualified Freezer	12	$456	13,291	886	0	16	$606	17,722	1,181	0
Appliance Recycling	50	$2,500	536,612	59,624	10	22	$1,422	176,338	19,593	4
Efficient Television	16	$848	31,740	2,645	1	1	$53	1,984	165	0
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	6	$3,102	198,378	6,613	1	4	$1,816	132,252	4,408	1
Advanced Lighting Package	2	$426	17,193	860	0					
Additional Low Income										
Energy Efficiency Kits	100	$900	1,013,712	112,635	13					
Weatherization Rebates	10	$3,670	239,674	8,171	2					
Building Shell - Existing Home Only										
Weatherization Rebates	50	$15,350	985,399	33,611	5	4	$934	65,696	2,190	1
Residential Total	**4,867**	**$177,010**	**16,807,429**	**1,198,714**	**313**	**4,552**	**$143,429**	**13,111,542**	**952,242**	**311**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Consumers Energy	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	168	$442	90,651	25,181	10					
High Efficiency Interior Lighting	230	$5,020	233,474	54,023	1	1,840	$19,546	2,759,544	431,179	25
Exterior Lighting										
High Efficiency Exterior Lighting	20	$600	22,141	4,519	0					
Ag/Commercial & Industrial Heating and Cooling										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	13	$3,120	303,237	20,216	1					
Commercial Contractor Rebate (GS & AS)	13	$520								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,579	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	15	$1,807	79,153	6,596	2					
Ventilation Thermostat Controller	1	$33	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	9	$434	35,589	2,966	1					
Efficient Livestock Waterers	4	$200	37,877	3,156						
Hog Farrowing - Heat Lamps (<= 175W)	18	$71	11,982	2,996						
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$66	3,990	399						
Hog Farrowing - Heat Lamp or Pad Controller	1	$66	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$35,192	2,829,743	213,966	21					
Ag, Commercial and Industrial Total	**497**	**$49,149**	**4,028,524**	**359,397**	**39**	**1,840**	**$19,546**	**2,759,544**	**431,179**	**25**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	120	$5,400				175	$49,767			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	150	$112,500				11	$4,495			
Expert Energy Services - C&I	5	$5,000								
Energy Audit Services - Residential *	20	$10,000				9	$3,310			
IV. Educational & Research Programs										
Member Information and Education	4,800	$100,000				4,950	$29,515			
Peak Alert	4,800									
Living with Energy in Iowa	50	$1,000				93	$270			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,800	$15,000				4,950	$13,784			
TOTAL	**20,109**	**$475,059**	**20,835,953**	**1,558,111**	**352**	**16,580**	**$264,115**	**15,871,086**	**1,383,421**	**336**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Consumers Energy	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	23	$3,460	116,754	8,340	8	31	$4,179	144,126	10,295	11
ENERGY STAR Qualified Room Air Conditioner						2	$56	1,766	196	
Geothermal Heat Pump	35	$43,960	9,229,096	461,455	15	37	$50,730	9,756,473	487,824	18
Air Source Heat Pump	15	$8,160	1,754,653	116,977	5	34	$25,686	3,885,167	259,011	11
Heat Recovery Ventilators	5	$690	62,158	3,108		6	$836	74,590	3,730	
Residential Contractor Rebates	49	$10,437				67	$14,932			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	400	$960	189,870	26,010	24	1,724	$3,168	838,959	114,926	21
Local CFL Rebate Program(s)	100	$600	47,467	6,502	6	831	$1,852	394,454	54,035	55
ENERGY STAR CFL/LED Fixtures	5	$50	10,911	546	0	5	$45	10,911	546	
T8 or better Lighting Fixtures	15	$420	15,508	946	0	40	$1,097	57,224	3,489	2
ENERGY STAR LED lighting	7		9,304	517	0	7	$234	9,304	517	
ENERGY STAR Ceiling Fan	11	$165	32,951	1,831	0	12	$201	35,946	1,997	
Exterior Lighting										
High Efficiency Exterior Lighting	120	$5,160	119,291	27,112	1	141	$4,714	69,029	15,688	4
Residential Water Heating (low income included)										
High Efficiency Water Heater	90	$49,500	371,463	24,764	3	96	$12,871	410,692	27,379	4
Heat Pump Water Heater - (Integrated)						1	$557	22,946	1,912	
Flow Restrictors - Faucet						60	$104	59,632	6,626	
Flow Restrictors - Shower						45	$454	282,689	28,269	2
Tank Insulation						10	$33	11,792	1,179	
Pipe Insulation										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	60	$4,568	145,477	13,225	5	78	$4,875	191,400	17,400	7
ENERGY STAR Qualified Dishwasher	26	$1,066	33,411	3,037	2	36	$1,003	46,262	4,206	4
ENERGY STAR Qualified Refrigerator	65	$2,600	102,082	6,805	1	82	$2,284	127,210	8,481	1
ENERGY STAR Qualified Dehumidifier	5	$190	14,085	1,174	0	5	$139	14,085	1,174	
ENERGY STAR Qualified Freezer	10	$380	11,076	738	0	10	$279	11,076	738	
Appliance Recycling	16	$700	150,585	16,799	3	25	$1,794	214,179	23,798	5
Efficient Television	5	$265	9,919	827	0	9	$401	17,854	1,488	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	6	$3,102	198,378	6,613	1	7	$3,900	231,441	7,715	1
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits										
Weatherization Rebates	3	$1,151	60,704	2,023	1					
Building Shell - Existing Home Only										
Weatherization Rebates	14	$4,138	228,366	7,612	2	18	$3,879	246,948	8,232	2
Residential Total	**1,085**	**$141,722**	**12,913,510**	**736,960**	**78**	**3,419**	**$140,303**	**17,166,155**	**1,090,851**	**148**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Consumers Energy	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	3	$442	1,619	450	0	105	$192	57,594	15,998	1
High Efficiency Interior Lighting	355	$28,550	1,082,883	156,906	2	116	$4,781	274,160	42,838	2
Exterior Lighting										
High Efficiency Exterior Lighting	20	$600	22,141	4,519	0					
Ag/Commercial & Industrial Heating and Cooling										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	5	$4,589	1,851,197	123,413	11	5	$8,291	916,792	143,249	14
Agricultural										
Livestock Ventilation Fans										
Ventilation Thermostat Controller										
Circulating Fans --- BESS Lab Ratings										
Efficient Livestock Waterers	1	$50	9,469	789		2	$111	18,938	1,578	
Hog Farrowing - Heat Lamps (<= 175W)										
Hog Farrowing - Single Crate Heating Pads (<=85W)										
Hog Farrowing - Heat Lamp or Pad Controller										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program		$28,400								
Ag, Commercial and Industrial Total	**384**	**$62,631**	**2,967,309**	**286,077**	**13**	**228**	**$13,375**	**1,267,484**	**203,663**	**17**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	40	$5,400				203	$40,145			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Expert Energy Services - C&I										
Energy Audit Services - Residential *	6	$2,500					$5,686			
IV. Educational & Research Programs										
Member Information and Education						5,050	$16,312			
Peak Alert										
Living with Energy in Iowa	5,000	$35,000				5,050	$5,093			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,500	$15,000				5,050	$12,961			
TOTAL	**12,015**	**$262,253**	**15,880,819**	**1,023,036**	**91**	**19,000**	**$233,875**	**18,433,639**	**1,294,514**	**165**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Consumers Energy	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	22	$3,348	115,088	8,221	8	23	3,101	105,121	7,509	8
ENERGY STAR Qualified Room Air Conditioner						6	$169	5,297	589	1
Geothermal Heat Pump	40	$50,240	10,547,538	527,377	17	27	$39,467	6,855,900	342,795	12
Air Source Heat Pump	15	$8,160	1,754,653	116,977	5	17	$11,615	1,865,877	124,392	4
Heat Recovery Ventilators	5	$690	62,158	3,108		5	$705	62,158	3,108	
Residential Contractor Rebates	35	$7,455				37	$8,344			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	500	$1,200	237,337	32,512	30	9,657	$17,941	4,296,777	588,600	80
Local CFL Rebate Program(s)	500	$3,000	237,337	32,512	30	130	$251	61,708	8,453	9
ENERGY STAR CFL/LED Fixtures						6	$140	13,093	655	
T8 or better Lighting Fixtures	20	$560	20,243	1,234	0	29	$534	19,900	1,213	1
ENERGY STAR LED lighting	10		13,291	738	0	99	$1,022	131,584	7,310	4
ENERGY STAR Ceiling Fan	10	$150	29,955	1,664	0	5	$112	14,978	832	
Exterior Lighting										
High Efficiency Exterior Lighting	120	$5,160	119,291	27,112	1	9	$293	79,135	17,985	3
Residential Water Heating (low income included)										
High Efficiency Water Heater	110	$60,500	419,569	27,971	4	64	$21,110	410,692	27,379	4
Heat Pump Water Heater - (Integrated)	25	$12,925	573,643	47,804	5	50	$34,371	1,147,286	95,607	12
Flow Restrictors - Faucet	30	$390	99,387	11,043	1	177	$125	195,462	21,718	1
Flow Restrictors - Shower	30	$510	188,459	18,846	2	59	$222	370,636	37,064	3
Tank Insulation										
Pipe Insulation										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	60	$4,280	145,477	13,225	5	66	$4,302	167,238	15,203	6
ENERGY STAR Qualified Dishwasher	25	$1,025	32,126	2,921	2	26	$733	33,411	3,037	3
ENERGY STAR Qualified Refrigerator	60	$2,400	94,230	6,282	1	70	$1,973	109,934	7,329	1
ENERGY STAR Qualified Dehumidifier	5	$190	14,085	1,174	0	3	$85	8,451	704	
ENERGY STAR Qualified Freezer	10	$380	11,076	738	0	15	$423	16,614	1,108	
Appliance Recycling	23	$950	217,085	24,121	4	36	$2,875	289,305	32,145	7
Efficient Television	5	$265	9,919	827	0	21	$947	41,659	3,472	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	5	$2,585	165,315	5,511	1	6	$3,383	198,378	6,613	1
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits	10	$90	101,371	11,263	1					
Weatherization Rebates	4	$1,968	112,348	3,745	1					
Building Shell - Existing Home Only										
Weatherization Rebates	10	$2,570	128,813	4,294	1	24	$5,990	456,997	15,233	3
Residential Total	**1,689**	**$170,991**	**15,449,798**	**931,218**	**119**	**10,667**	**$160,233**	**16,957,591**	**1,370,053**	**164**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Consumers Energy	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	5	$442	2,698	749	0	624	$1,163	336,493	93,470	5
High Efficiency Interior Lighting	260	$15,320	320,061	59,844	1	701	$28,278	1,805,850	282,164	11
Exterior Lighting										
High Efficiency Exterior Lighting	20	$600	22,141	4,519	0					
Ag/Commercial & Industrial Heating and Cooling										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	3	$4,589	1,110,718	74,048	6					
Agricultural										
Livestock Ventilation Fans										
Ventilation Thermostat Controller										
Circulating Fans --- BESS Lab Ratings										
Efficient Livestock Waterers	1	$50	9,469	789						
Hog Farrowing - Heat Lamps (<= 175W)										
Hog Farrowing - Single Crate Heating Pads (<=85W)										
Hog Farrowing - Heat Lamp or Pad Controller										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program		$28,400								
Ag, Commercial and Industrial Total	**289**	**$49,401**	**1,465,088**	**139,949**	**8**	**1,325**	**$29,441**	**2,142,343**	**375,634**	**16**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	40	$5,400				212	$41,925			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Expert Energy Services - C&I										
Energy Audit Services - Residential *	6	$2,500								
IV. Educational & Research Programs										
Member Information and Education						5,150	$3,520			
Peak Alert										
Living with Energy in Iowa	5,000	$35,000				5,150	$14,087			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,500	$15,000				5,150	$13,524			
TOTAL	**12,524**	**$278,292**	**16,914,885**	**1,071,167**	**127**	**27,654**	**$262,730**	**19,099,934**	**1,745,687**	**180**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Consumers Energy	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	17	$2,555	92,114	6,580	6	16	$2,884	89,244	6,375	7
ENERGY STAR Qualified Room Air Conditioner						1	$32	883	98	0
Geothermal Heat Pump	43	$54,008	11,338,603	566,930	18	15	$24,959	3,955,327	197,766	7
Air Source Heat Pump	17	$9,248	1,988,607	132,574	5	12	$9,644	1,342,358	89,491	3
Heat Recovery Ventilators	5	$690	62,158	3,108		1	$160	12,432	622	
Residential Contractor Rebates	35	$7,455				25	$6,408			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	300	$720	142,402	19,507	18	12,853	$25,961	5,313,482	727,874	100
Local CFL Rebate Program(s)	200	$1,200	94,935	13,005	12	58	$144	27,531	3,771	4
ENERGY STAR CFL/LED Fixtures						1	$26	2,182	109	0
T8 or better Lighting Fixtures	20	$560	20,243	1,234	0	36	$622	34,703	2,116	1
ENERGY STAR LED lighting	10		13,291	738	0	129	$2,007	171,458	9,525	6
ENERGY STAR Ceiling Fan	10	$150	29,955	1,664	0					
Exterior Lighting										
High Efficiency Exterior Lighting	120	$5,160	119,291	27,112	1	16	$1,271	90,467	20,561	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	110	$60,500	419,569	27,971	4	57	$18,094	226,994	15,133	2
Heat Pump Water Heater - (Integrated)	25	$12,925	573,643	47,804	5	24	$19,591	550,697	45,891	6
Flow Restrictors - Faucet	30	$390	99,387	11,043	1	61	$40	202,088	22,454	1
Flow Restrictors - Shower	30	$510	188,459	18,846	2	20	$64	125,639	12,564	1
Tank Insulation										
Pipe Insulation										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	60	$4,280	145,477	13,225	5	69	$5,069	172,487	15,681	6
ENERGY STAR Qualified Dishwasher	25	$1,025	32,126	2,921	2	17	$545	21,846	1,986	2
ENERGY STAR Qualified Refrigerator	60	$2,400	94,230	6,282	1	61	$1,954	95,800	6,387	1
ENERGY STAR Qualified Dehumidifier	5	$190	14,085	1,174	0	3	$96	8,451	704	0
ENERGY STAR Qualified Freezer	10	$380	11,076	738	0	9	$288	9,968	665	0
Appliance Recycling	23	$950	217,085	24,121	4	27	$2,563	220,636	24,515	6
Efficient Television	5	$265	9,919	827	0	9	$461	17,854	1,488	0
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	5	$2,585	165,315	5,511	1	3	$1,922	99,189	3,306	1
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits	10	$90	101,371	11,263	1					
Weatherization Rebates	4	$1,968	112,348	3,745	1					
Building Shell - Existing Home Only										
Weatherization Rebates	10	$2,570	128,813	4,294	1	32	$19,908	1,201,013	40,034	4
Residential Total	**1,189**	**$172,774**	**16,214,505**	**952,216**	**90**	**13,555**	**$144,713**	**13,992,730**	**1,249,116**	**158**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Consumers Energy	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	5	$442	2,698	749	0	890	$1,794	445,660	123,794	7
High Efficiency Interior Lighting	210	$9,620	250,937	49,043	1	88	$5,877	258,593	40,405	1
Exterior Lighting										
High Efficiency Exterior Lighting	20	$600	22,141	4,519	0					
Ag/Commercial & Industrial Heating and Cooling										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	3	$4,589	1,110,718	74,048	6	2	$4,101	1,690,018	264,065	30
Agricultural										
Livestock Ventilation Fans										
Ventilation Thermostat Controller										
Circulating Fans --- BESS Lab Ratings										
Efficient Livestock Waterers	1	$50	9,469	789						
Hog Farrowing - Heat Lamps (<= 175W)										
Hog Farrowing - Single Crate Heating Pads (<=85W)										
Hog Farrowing - Heat Lamp or Pad Controller										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program		$28,400								
Ag, Commercial and Industrial Total	**239**	**$43,701**	**1,395,964**	**129,148**	**8**	**980**	**$11,772**	**2,394,272**	**428,265**	**38**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	30	$5,400				232	$55,012			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Expert Energy Services - C&I										
Energy Audit Services - Residential *	6	$2,500					$631			
IV. Educational & Research Programs										
Member Information and Education						4,878	$44,386			
Peak Alert										
Living with Energy in Iowa	5,000	$35,000				4,878	$12,858			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,500	$15,000				4,878	$14,377			
TOTAL	**11,964**	**$274,375**	**17,610,469**	**1,081,364**	**97**	**29,401**	**$283,749**	**16,387,002**	**1,677,381**	**196**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Consumers Energy	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	20	$3,020	102,528	7,323	7	29	$4,188	125,950	8,996	10
ENERGY STAR Qualified Room Air Conditioner						3	$94	2,648	294	0
Geothermal Heat Pump	45	$56,520	11,865,980	593,299	19	24	$32,094	6,328,523	316,426	11
Air Source Heat Pump	20	$10,880	2,339,538	155,969	6	20	$14,719	2,186,126	145,742	5
Heat Recovery Ventilators	5	$690	62,158	3,108		4	$625	49,727	2,486	
Residential Contractor Rebates	35	$7,455				32	$8,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	200	$480	94,935	13,005	12	11,103	$21,435	4,506,318	617,304	85
Local CFL Rebate Program(s)	100	$600	47,467	6,502	6	16	$19	7,595	1,040	1
ENERGY STAR CFL/LED Fixtures						11	$218	24,004	1,200	0
T8 or better Lighting Fixtures	20	$560	20,243	1,234	0	144	$2,518	177,834	10,844	3
ENERGY STAR LED lighting	10		13,291	738	0	563	$6,326	748,302	41,572	25
ENERGY STAR Ceiling Fan	10	$150	29,955	1,664	0					
Exterior Lighting										
High Efficiency Exterior Lighting	120	$5,160	119,291	27,112	1	16	$975	53,080	12,064	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	110	$60,500	419,569	27,971	4	90	$12,750	359,064	23,938	4
Heat Pump Water Heater - (Integrated)	25	$12,925	573,643	47,804	5	24	$15,000	550,697	45,891	6
Flow Restrictors - Faucet	30	$390	99,387	11,043	1					
Flow Restrictors - Shower	30	$510	188,459	18,846	2					
Tank Insulation										
Pipe Insulation										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	60	$4,280	145,477	13,225	5	40	$2,800	97,785	8,890	4
ENERGY STAR Qualified Dishwasher	25	$1,025	32,126	2,921	2	31	$969	39,837	3,622	3
ENERGY STAR Qualified Refrigerator	60	$2,400	94,230	6,282	1	51	$1,594	80,095	5,340	1
ENERGY STAR Qualified Dehumidifier	5	$190	14,085	1,174	0	8	$250	22,536	1,878	0
ENERGY STAR Qualified Freezer	10	$380	11,076	738	0	7	$219	7,753	517	0
Appliance Recycling	23	$950	217,085	24,121	4	23	$2,358	200,153	22,239	5
Efficient Television	5	$265	9,919	827	0	25	$1,250	49,595	4,133	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	5	$2,585	165,315	5,511	1	2	$1,250	66,126	2,204	0
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits	10	$90	101,371	11,263	1					
Weatherization Rebates	4	$1,968	112,348	3,745	1					
Building Shell - Existing Home Only										
Weatherization Rebates	10	$2,570	128,813	4,294	1	1	$188	4,530	151	0
Residential Total	**997**	**$176,543**	**17,008,293**	**989,719**	**80**	**12,267**	**$129,839**	**15,688,277**	**1,276,771**	**163**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Consumers Energy	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	5	$442	2,698	749	0	765	$1,485	378,124	105,035	6
High Efficiency Interior Lighting	260	$15,320	320,061	59,844	1	115	$6,770	341,810	53,408	2
Exterior Lighting										
High Efficiency Exterior Lighting	20	$600	22,141	4,519	0					
Ag/Commercial & Industrial Heating and Cooling										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	3	$4,589	1,110,718	74,048	6					
Agricultural										
Livestock Ventilation Fans										
Ventilation Thermostat Controller										
Circulating Fans --- BESS Lab Ratings										
Efficient Livestock Waterers	1	$50	9,469	789						
Hog Farrowing - Heat Lamps (<= 175W)										
Hog Farrowing - Single Crate Heating Pads (<=85W)										
Hog Farrowing - Heat Lamp or Pad Controller										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program		$28,400								
Ag, Commercial and Industrial Total	**289**	**$49,401**	**1,465,088**	**139,949**	**8**	**880**	**$8,255**	**719,934**	**158,442**	**7**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	20	$5,400				222	$52,641			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Expert Energy Services - C&I										
Energy Audit Services - Residential *	6	$2,500					$631			
IV. Educational & Research Programs										
Member Information and Education						5,038	$35,151			
Peak Alert										
Living with Energy in Iowa	5,000	$35,000				5,038	$13,755			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,500	$15,000				5,038	$14,576			
TOTAL	**11,812**	**$283,844**	**18,473,380**	**1,129,668**	**88**	**28,483**	**$254,848**	**16,408,211**	**1,435,213**	**170**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. East-Central Iowa REC was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of East-Central Iowa REC and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant. East-Central Iowa REC developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for East-Central Iowa REC and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including East-Central Iowa REC.

East-Central Iowa REC offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. East-Central Iowa REC Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. East-Central Iowa REC offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of East-Central Iowa REC, we offer

a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, only three, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. East-Central Iowa REC also offers energy audits for all member-consumers.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, East-Central Iowa REC is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. East-Central Iowa REC publishes a newsletter bi monthly that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. East-Central Iowa REC consistently shares the energy efficiency message on our website, in our bill stuffers, at homeshows and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), East-Central Iowa REC has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which East-Central Iowa REC participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local retail businesses and contractors who offer energy efficient appliances and services to leverage local resources to further encourage our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for East-Central Iowa REC. East-Central Iowa REC has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
East-Central Iowa Rural Electric Cooperative	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	65	$10,066	295,859	63,398	21,133	147	$24,003	704,090	148,299	50,291
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	25	$812	22,070	7,357	2,452	42	$1,654	37,077	12,358	4,119
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	292	$596,738	76,997,026	10,969,439	3,849,851	319	$502,794	83,589,237	12,446,095	4,179,462
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	272	$244,800	31,817,715	6,113,992	2,121,181	195	$131,919	21,144,053	4,806,662	1,409,603
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	102	$16,544	1,268,032	180,881	63,402	52	$9,075	646,448	90,752	32,323
Residential Contractor Rebates	Incentive for heat pump installs	564	$112,800				425	$98,954			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	6,557	$17,045	3,112,440	1,326,878	426,362	54,802	$104,419	23,659,376	7,710,093	3,241,010
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	25,450	$66,157	12,080,465	5,149,698	1,654,858	19,392	$50,611	9,204,887	5,734,848	1,260,944
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						77	$1,274	168,027	20,077	8,402
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	147	$2,380	117,665	20,327	7,175	935	$18,705	1,047,775	96,168	63,889
ENERGY STAR LED lighting	Rebate for LED lighting.						1,608	$21,920	2,137,245	200,920	118,736
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	92	$1,790	275,587	43,435	15,310	14	$558	41,937	3,495	2,330
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	230	$8,959	235,714	157,617	53,292	582	$26,471	1,324,373	565,243	300,994
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	1,215	$188,589	4,416,638	881,950	294,443	800	$106,728	2,926,720	612,537	195,115
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	12	$4,785	229,457	95,607	22,946	1	$455	19,121	9,561	1,912
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	99	$64,072	2,271,626	468,475	189,302	227	$141,537	5,208,679	1,384,390	434,056
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	5	$2,273	111,422	27,856	9,285		$45			
Drain Water Heat Recovery System	Rebate for drain water heat recovery system.						1	$358	23,276	3,104	776
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	966	$37,590	3,200,274	994,978	355,586	3	$17	9,939	5,522	1,104
Flow Restrictors - Shower	Incentive for low-flow shower head.	966	$62,650	6,068,383	1,698,016	606,838	3	$28	18,846	9,423	1,885
Tank Insulation	Incentive for water heater tank insulation.	70	$1,364	118,806	35,642	11,881	372	$1,238	438,680	137,499	43,868
Pipe Insulation	Incentive for water pipe insulation.	70	$1,364	123,821	24,764	8,255	80	$258	141,510	47,170	9,434
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	625	$44,080	1,515,388	407,557	137,763	610	$44,414	1,587,604	436,308	144,328
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	370	$12,010	475,468	127,337	43,224	369	$11,566	474,184	126,168	43,107
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	491	$15,938	771,112	151,919	51,407	744	$23,098	1,168,447	236,307	77,896
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	205	$6,654	577,478	142,022	48,123	173	$5,143	487,335	129,583	40,612
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	185	$6,005	204,908	40,243	13,661	145	$4,583	160,603	30,051	10,706
Appliance Recycling	Incentives for appliance recycling.	750	$57,353	8,049,187	2,635,364	894,354	659	$52,029	5,325,716	1,960,985	591,747
Efficient Television	Rebate for efficient television.	162	$8,408	321,372	76,210	26,781	169	$8,262	335,259	73,400	27,938
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	122	$79,164	4,033,686	386,837	134,456	51	$28,780	1,464,361	144,045	48,812
Advanced Lighting Package		24	$6,221	206,313	27,508	10,316	2	$405	17,193	4,298	860
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	123	$5,612	1,246,865	495,592	138,541					
Weatherization Rebates	Rebates for various insulation measures.	40	$19,872	1,151,915	117,919	39,306					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	569	$218,869	13,097,119	1,276,374	447,070	102	$49,534	4,100,605	357,587	136,687
Residential Total		**40,865**	**$1,920,964**	**174,413,813**	**34,145,193**	**11,698,553**	**83,101**	**$1,470,834**	**167,612,603**	**37,542,948**	**12,482,946**
Percentage of 5 year plan goal - Residential								**77%**	**96%**		**107%**

East-Central Iowa Rural Electric Cooperative	Measure Description	5 Year Plan (2010-2014) Estimated Achievable Potential Goals: Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	5 Year Plan (2010-2014) Plan to Date Results: Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	1,709	$4,443	922,156	796,942	256,154	5,280	$10,249	2,563,872	1,475,414	712,187
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	4,044	$70,467	4,880,584	2,652,638	937,410	7,386	$217,840	14,077,375	6,754,467	2,199,590
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	40	$1,559	44,282	27,112	9,037		$456			
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	35	$1,136	51,496	10,299	3,433	37	$2,472	54,438	6,572	3,629
Air Cooled Chillers	Rebate for water cooled chillers.							$22			
Water Cooled Chillers	Rebate for air cooled chillers.							$22			
Geothermal Heat Pump	Rebate for geothermal heat pump.	30	$13,638	1,277,554	191,633	63,878	6	$2,111	234,218	58,555	11,711
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	10	$2,597	233,259	46,652	15,551	5	$1,121	125,960	34,522	8,397
Heat Recovery Ventilators	Rebate for heat recovery ventilators.							$1,359			
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	40	$2,078				1	$116			
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.							$22			
Heat Pump Water Heater	Rebate for heat pump water heater.							$22			
Solar Water Heaters	Rebate for solar water heater.							$22			
Ag/Commercial & Industrial Appliances											
Commercial ENERGY STAR Refrigerators and Freezers	Rebates for ENERGY STAR refrigerators & freezers.						2	$1,720	3,570	1,043	298
Ag/Commercial & Industrial Insulation											
Building Envelope	Rebates for insulation.							$44			
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.							$1,359			
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.							$22			
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	4	$3,106	584,223	97,371	38,948		$22			
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	5	$5,195	823,847	164,769	54,923		$22			
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	266	$31,588	1,403,643	328,924	116,970	84	$10,452	850,447	153,855	70,870
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	27	$876	73,201	17,171	6,100		$22			
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	170	$8,078	672,237	157,185	56,020	4	$4,063	872,863	145,477	72,739
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	10	$3,247	549,672	109,934	36,645		$22			
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	68	$4,412	643,909	153,086	53,659	4	$244	37,876	9,468	3,156
Premium Motors Rebate Program - Dairy Vacuum Pump	Rebate for premium motors for dairy vacuum pumps.							$22			
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	27	$14,010	5,952,501	985,599	350,147		$22			
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	387	$1,506	257,614	180,729	64,403		$22			
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	42	$1,363	83,782	24,137	8,378		$22			
Hog Farrowing - Double Crate Heating Pads(<=170W)	Rebate for double crate heating pads.							$22			
Hog Farrowing - Heat Lamp or Pad Controller	Rebate for controller for heat pad or lamp.	10	$649	77,359	14,151	4,717		$22			
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program							1	$1,689	112,414	28,104	9,368
Ag, Commercial and Industrial Total		**6,924**	**$169,948**	**18,531,320**	**5,958,332**	**2,076,374**	**12,810**	**$255,646**	**18,933,033**	**8,667,477**	**3,091,946**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**150%**	**102%**		**149%**

II. Demand Response Programs											
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	20	$3,000								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	20	$3,000				2	$3,160			
Energy Audit Services - Residential *	Energy Audit Services - Residential	30	$3,000					$1,938			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	10	$55,000				5	$24,096			
Domestic Water Heater Enhancement	Domestic Water Heater Enhancement	5	$15,100								
Member Information and Education	Member Information and Education	5	$8,350				32,922	$134,774			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$94,360				32,922	$107,051			
TOTAL		**47,879**	**$2,272,722**	**192,945,133**	**40,103,524**	**13,774,927**	**161,762**	**$1,997,499**	**186,545,635**	**46,210,424**	**15,574,892**
Percentage of 5 year plan goal achieved								**88%**	**97%**		**113%**

* Savings for the specific measures are accounted for and included in the applicable programs

East-Central Iowa Rural Electric Cooperative	Plan Year 1 (2010) Estimated Achievable Potential					Plan Year 1 (2010) Year to Date Results				
	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	13	$2,039	59,172	4,227	4	27	5,897	138,664	9,905	10
ENERGY STAR Qualified Room Air Conditioner	5	$164	4,414	490	0	3	$338	2,648	294	0
Geothermal Heat Pump	48	$99,474	12,657,045	632,852	21	57	$92,289	15,030,241	751,512	27
Air Source Heat Pump	47	$42,300	5,497,914	366,528	15	50	$34,094	5,848,845	389,923	17
Heat Recovery Ventilators	17	$2,796	211,339	10,567		7	$2,112	87,022	4,351	
Residential Contractor Rebates	95	$19,000				102	$22,050			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,417	$3,729	672,614	92,139	85	4,073	$5,967	2,162,995	296,301	269
Local CFL Rebate Program(s)	5,499	$14,471	2,610,235	357,566	330	13,574	$35,135	6,443,231	882,634	898
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	25	$399	19,340	1,179	0					
ENERGY STAR LED lighting										
ENERGY STAR Ceiling Fan	15	$296	44,933	2,496	0					
Exterior Lighting										
High Efficiency Exterior Lighting	44	$1,737	45,155	10,207	0	42	$2,057	78,575	17,858	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	235	$36,250	851,686	56,779	7	204	$30,295	726,262	48,417	7
Heat Pump Water Heater - (Add-On)	8	$3,232	152,971	15,297	2	1	$304	19,121	1,912	0
Heat Pump Water Heater - (Integrated)	11	$7,237	252,403	21,034	2	14	$14,613	321,240	26,770	3
Solar Water Heaters (w/ Electric auxiliary tank)	1	$461	22,284	1,857	0					
Drain Water Heat Recovery System										
Flow Restrictors - Faucet	143	$5,645	473,747	52,639	3	3	$17	9,939	1,104	0
Flow Restrictors - Shower	143	$9,408	898,322	89,832	7	3	$28	18,846	1,885	0
Tank Insulation	14	$276	23,761	2,376	0					
Pipe Insulation	14	$276	24,764	1,651	0	80	$258	141,510	9,434	2
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	120	$8,474	290,954	26,450	10	117	$7,286	245,856	22,351	9
ENERGY STAR Qualified Dishwasher	70	$2,303	89,953	8,178	6	61	$1,770	78,388	7,126	6
ENERGY STAR Qualified Refrigerator	94	$3,092	147,626	9,842	1	140	$4,065	219,869	14,658	2
ENERGY STAR Qualified Dehumidifier	39	$1,283	109,862	9,155	1	44	$1,277	123,947	10,329	1
ENERGY STAR Qualified Freezer	35	$1,151	38,766	2,584	0	25	$725	27,690	1,846	0
Appliance Recycling	142	$10,859	1,523,979	169,331	27	166	$10,578	1,320,186	146,687	34
Efficient Television	27	$1,421	53,562	4,464	1	7	$289	13,886	1,157	0
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	21	$13,816	694,323	23,144	4	6	$6,273	198,378	6,613	1
Advanced Lighting Package	3	$789	25,789	1,289	1	2	$405	17,193	860	0
Additional Low Income										
Energy Efficiency Kits	32	$1,474	324,388	36,043	4					
Weatherization Rebates	8	$4,026	230,383	7,861	1					
Building Shell - Existing Home Only										
Weatherization Rebates	94	$36,551	2,156,777	73,722	10	5	$3,831	413,122	13,771	1
Residential Total	**8,479**	**$334,429**	**30,208,461**	**2,091,779**	**543**	**18,813**	**$281,952**	**33,687,654**	**2,667,697**	**1,289**
Percentage of 5 year plan goal - Residential										

East-Central Iowa Rural Electric Cooperative	Plan Year 1 (2010) Estimated Achievable Potential					Plan Year 1 (2010) Year to Date Results				
	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	369	$971	199,108	55,308	22					
High Efficiency Interior Lighting	633	$10,670	742,199	145,344	2	2,480	$41,123	3,356,900	524,516	187
Exterior Lighting										
High Efficiency Exterior Lighting	8	$316	8,856	1,807	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$230	10,299	687	0	7	$1,371	10,299	687	0
Air Cooled Chillers										
Water Cooled Chillers										
Geothermal Heat Pump	10	$4,605	425,851	21,293	1	6	$2,089	234,218	11,711	1
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$526	46,652	3,110	0	3	$746	69,978	4,665	0
Heat Recovery Ventilators							$1,337			
Commercial Contractor Rebate (GS & AS)	12	$632								
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Heat Pump Water Heater										
Solar Water Heaters										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers							$1,337			
Ag/Commercial & Industrial Insulation										
Building Envelope										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA							$1,337			
Variable Speed Drive Motor Incentive										
Agricultural										
Dairy Pre-coolers Incentive										
Dairy Heat Reclaimer	1	$1,053	164,769	10,985	5					
Livestock Ventilation Fans	41	$4,939	216,351	18,029	5					
Ventilation Thermostat Controller	4	$132	10,845	904	0					
Circulating Fans --- BESS Lab Ratings	26	$1,253	102,813	8,568	3					
Scroll compressor (milk cooling)	2	$658	109,934	7,329	1					
Efficient Livestock Waterers	11	$724	104,162	8,680						
Premium Motors Rebate Program - Dairy Vacuum Pump										
Variable Speed Drive Motor - Dairy Vacuum Pump	4	$2,105	881,852	51,874	4					
Hog Farrowing - Heat Lamps (<= 175W)	59	$233	39,274	9,819						
Hog Farrowing - Single Crate Heating Pads (<=85W)	7	$230	13,964	1,396						
Hog Farrowing - Double Crate Heating Pads(<=170W)										
Hog Farrowing - Heat Lamp or Pad Controller	2	$132	15,472	943						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**1,198**	**$29,408**	**3,092,401**	**346,075**	**45**	**2,496**	**$49,339**	**3,671,395**	**541,578**	**188**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$300								
Expert Energy Services - C&I	2	$300								
Energy Audit Services - Residential *	4	$400								
IV. Educational & Research Programs										
Model Housing Education	2	$11,000				2	$13,596			
Domestic Water Heater Enhancement	1	$3,000								
Member Information and Education	1	$1,650				6,483	$30,682			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$18,872				6,483	$20,529			
TOTAL	**9,689**	**$399,359**	**33,300,863**	**2,437,854**	**588**	**34,277**	**$396,098**	**37,359,049**	**3,209,276**	**1,478**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
East-Central Iowa Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	13	$2,026	59,172	4,227	4	30	$4,419	143,463	10,247	11
ENERGY STAR Qualified Room Air Conditioner	5	$163	4,414	490	0	12	$501	10,593	1,177	1
Geothermal Heat Pump	55	$113,235	14,502,865	725,143	24	63	$87,864	16,612,372	830,619	30
Air Source Heat Pump	52	$46,800	6,082,798	405,520	16	53	$33,790	5,695,432	379,695	15
Heat Recovery Ventilators	19	$3,105	236,202	11,810		12	$1,876	149,180	7,459	
Residential Contractor Rebates	107	$21,400				102	$22,150			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,417	$3,705	672,614	92,139	85	2,671	$4,598	1,300,190	178,108	33
Local CFL Rebate Program(s)	5,499	$14,376	2,610,235	357,566	330	3,481	$10,039	1,652,342	226,348	230
ENERGY STAR CFL/LED Fixtures						35	$522	76,376	3,819	2
T8 or better Lighting Fixtures	27	$437	21,364	1,303	0	103	$2,753	86,540	5,277	3
ENERGY STAR LED lighting						1	$196	1,329	74	
ENERGY STAR Ceiling Fan	17	$333	50,924	2,829	1		$63			
Exterior Lighting										
High Efficiency Exterior Lighting	45	$1,765	46,149	10,432	0	83	$4,505	101,354	23,035	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	246	$36,993	891,577	59,438	8	155	$18,158	541,473	36,098	5
Heat Pump Water Heater - (Add-On)	1	$392	19,121	1,912	0		$151			
Heat Pump Water Heater - (Integrated)	14	$9,150	321,240	26,770	3	85	$49,407	1,950,386	162,532	20
Solar Water Heaters (w/ Electric auxiliary tank)	1	$458	22,284	1,857	0		$45			
Drain Water Heat Recovery System						1	$358	23,276	776	
Flow Restrictors - Faucet	179	$7,020	593,011	65,890	4					
Flow Restrictors - Shower	179	$11,699	1,124,473	112,447	9					
Tank Insulation	14	$275	23,761	2,376	0	187	$585	220,519	22,052	4
Pipe Insulation	14	$275	24,764	1,651	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	122	$8,647	295,804	26,891	10	157	$11,648	428,721	38,975	15
ENERGY STAR Qualified Dishwasher	72	$2,353	92,523	8,411	6	78	$2,735	100,234	9,112	8
ENERGY STAR Qualified Refrigerator	96	$3,137	150,767	10,051	1	156	$5,377	244,997	16,333	2
ENERGY STAR Qualified Dehumidifier	40	$1,307	112,679	9,390	1	37	$1,055	104,228	8,686	1
ENERGY STAR Qualified Freezer	36	$1,176	39,874	2,658	0	22	$836	24,367	1,624	
Appliance Recycling	146	$11,165	1,566,908	174,101	28	151	$11,326	1,278,745	142,083	31
Efficient Television	30	$1,569	59,513	4,959	1	35	$1,779	69,432	5,786	2
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	23	$15,033	760,449	25,348	4	10	$4,368	270,125	9,004	2
Advanced Lighting Package	4	$1,046	34,386	1,719	1					
Additional Low Income										
Energy Efficiency Kits	38	$1,739	385,210	42,801	5					
Weatherization Rebates	8	$4,000	230,383	7,861	1					
Building Shell - Existing Home Only										
Weatherization Rebates	107	$41,430	2,453,699	83,770	11	24	$8,983	709,631	23,654	2
Residential Total	**8,626**	**$366,208**	**33,489,164**	**2,281,764**	**554**	**7,744**	**$290,087**	**31,795,305**	**2,142,573**	**418**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
East-Central Iowa Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	369	$965	199,108	55,308	22	242	$416	125,830	34,953	3
High Efficiency Interior Lighting	760	$13,248	913,406	175,963	3	806	$33,454	2,668,345	416,929	39
Exterior Lighting										
High Efficiency Exterior Lighting	8	$314	8,856	1,807	0		$456			
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$229	10,299	687	0		$66			
Air Cooled Chillers							$22			
Water Cooled Chillers							$22			
Geothermal Heat Pump							$22			
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$523	46,652	3,110	0		$22			
Heat Recovery Ventilators							$22			
Commercial Contractor Rebate (GS & AS)	2	$105					$22			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater							$22			
Heat Pump Water Heater							$22			
Solar Water Heaters							$22			
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers						1	$324	1,785	149	
Ag/Commercial & Industrial Insulation										
Building Envelope							$44			
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA							$22			
Variable Speed Drive Motor Incentive							$22			
Agricultural										
Dairy Pre-coolers Incentive	1	$784	146,056	9,737	5		$22			
Dairy Heat Reclaimer	1	$1,046	164,769	10,985	5		$22			
Livestock Ventilation Fans	49	$5,864	258,566	21,547	6	2	$1,290	72,686	6,057	2
Ventilation Thermostat Controller	5	$163	13,556	1,130	0		$22			
Circulating Fans --- BESS Lab Ratings	31	$1,484	122,584	10,215	3		$110			
Scroll compressor (milk cooling)	2	$654	109,934	7,329	1		$22			
Efficient Livestock Waterers	13	$850	123,100	10,258		2	$126	18,938	1,578	
Premium Motors Rebate Program - Dairy Vacuum Pump							$22			
Variable Speed Drive Motor - Dairy Vacuum Pump	5	$2,614	1,102,315	64,842	5		$22			
Hog Farrowing - Heat Lamps (<= 175W)	71	$278	47,262	11,816			$22			
Hog Farrowing - Single Crate Heating Pads (<=85W)	8	$261	15,958	1,596			$22			
Hog Farrowing - Double Crate Heating Pads(<=170W)							$22			
Hog Farrowing - Heat Lamp or Pad Controller	2	$131	15,472	943			$22			
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program							$689			
Ag, Commercial and Industrial Total	**1,336**	**$29,512**	**3,297,895**	**387,274**	**51**	**1,053**	**$37,437**	**2,887,584**	**459,666**	**44**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$450								
Expert Energy Services - C&I	3	$450								
Energy Audit Services - Residential *	5	$500								
IV. Educational & Research Programs										
Model Housing Education	2	$11,000								
Domestic Water Heater Enhancement	1	$3,010								
Member Information and Education	1	$1,660				6,400	$29,343			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$18,872				6,400	$20,501			
TOTAL	**9,977**	**$431,662**	**36,787,058**	**2,669,037**	**606**	**21,597**	**$377,368**	**34,682,889**	**2,602,239**	**462**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
East-Central Iowa Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	13	$2,013	59,172	4,227	4	27	3,707	119,007	8,500	9
ENERGY STAR Qualified Room Air Conditioner	5	$162	4,414	490	0	14	$412	12,359	1,373	1
Geothermal Heat Pump	60	$122,727	15,821,307	791,065	26	68	$106,119	17,667,126	883,356	32
Air Source Heat Pump	55	$49,500	6,433,729	428,915	17	39	$26,652	3,996,391	266,426	10
Heat Recovery Ventilators	21	$3,409	261,065	13,053		8	$1,177	99,454	4,973	
Residential Contractor Rebates	115	$23,000				86	$20,889			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,346	$3,496	638,912	87,522	81	14,077	$27,311	6,267,481	858,559	118
Local CFL Rebate Program(s)	5,224	$13,569	2,479,699	339,685	313	1,907	$4,520	905,204	124,001	126
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	30	$487	24,075	1,468	0	60	$1,885	80,323	4,898	3
ENERGY STAR LED lighting						129	$3,245	171,458	9,525	6
ENERGY STAR Ceiling Fan	19	$370	56,915	3,162	1					
Exterior Lighting										
High Efficiency Exterior Lighting	46	$1,792	47,143	10,658	0	87	$3,038	108,225	24,597	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	257	$37,727	931,467	62,098	8	148	$18,710	554,367	36,958	5
Heat Pump Water Heater - (Add-On)	1	$390	19,121	1,912	0					
Heat Pump Water Heater - (Integrated)	18	$11,688	413,023	34,419	4	80	$47,418	1,835,658	152,971	19
Solar Water Heaters (w/ Electric auxiliary tank)	1	$455	22,284	1,857	0					
Drain Water Heat Recovery System										
Flow Restrictors - Faucet	206	$8,026	682,460	75,829	4					
Flow Restrictors - Shower	206	$13,377	1,294,086	129,409	10					
Tank Insulation	14	$273	23,761	2,376	0	48	$169	56,604	5,660	1
Pipe Insulation	14	$273	24,764	1,651	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	125	$8,818	303,078	27,553	10	111	$7,866	293,415	26,674	11
ENERGY STAR Qualified Dishwasher	74	$2,403	95,094	8,645	7	73	$2,147	93,809	8,528	7
ENERGY STAR Qualified Refrigerator	98	$3,182	153,908	10,261	1	150	$4,413	235,574	15,705	2
ENERGY STAR Qualified Dehumidifier	41	$1,331	115,496	9,625	1	25	$735	70,424	5,869	1
ENERGY STAR Qualified Freezer	37	$1,201	40,982	2,732	0	31	$912	34,336	2,289	
Appliance Recycling	150	$11,471	1,609,837	178,871	29	130	$11,061	1,028,868	114,319	27
Efficient Television	33	$1,714	65,465	5,455	1	47	$2,212	93,238	7,770	2
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	25	$16,234	826,575	27,553	5	14	$7,178	402,377	13,413	3
Advanced Lighting Package	5	$1,299	42,982	2,149	1					
Additional Low Income										
Energy Efficiency Kits	30	$1,364	304,113	33,790	4					
Weatherization Rebates	8	$3,974	230,383	7,861	1					
Building Shell - Existing Home Only										
Weatherization Rebates	118	$45,305	2,702,481	92,213	12	30	$11,634	1,018,373	33,946	3
Residential Total	**8,395**	**$391,029**	**35,727,792**	**2,396,503**	**542**	**17,389**	**$313,410**	**35,144,071**	**2,610,310**	**387**
Percentage of 5 year plan goal - Residential										

East-Central Iowa Rural Electric Cooperative	Plan Year 3 (2012) Estimated Achievable Potential					Plan Year 3 (2012) Year to Date Results				
	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	351	$912	189,395	52,610	21	1,413	$2,737	720,477	200,133	10
High Efficiency Interior Lighting	855	$15,085	1,039,573	198,607	3	1,484	$39,201	2,477,112	387,049	18
Exterior Lighting										
High Efficiency Exterior Lighting	8	$312	8,856	1,807	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$227	10,299	687	0	1	$59	1,471	98	
Air Cooled Chillers										
Water Cooled Chillers										
Geothermal Heat Pump	10	$4,545	425,851	21,293	1					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$519	46,652	3,110	0	2	$353	55,982	3,732	
Heat Recovery Ventilators										
Commercial Contractor Rebate (GS & AS)	12	$623				1	$94			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Heat Pump Water Heater										
Solar Water Heaters										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers						1	$59	1,785	149	
Ag/Commercial & Industrial Insulation										
Building Envelope										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA										
Variable Speed Drive Motor Incentive										
Agricultural										
Dairy Pre-coolers Incentive	1	$779	146,056	9,737	5					
Dairy Heat Reclaimer	1	$1,039	164,769	10,985	5					
Livestock Ventilation Fans	56	$6,658	295,504	24,625	7					
Ventilation Thermostat Controller	6	$195	16,267	1,356	0					
Circulating Fans --- BESS Lab Ratings	36	$1,713	142,356	11,863	4					
Scroll compressor (milk cooling)	2	$649	109,934	7,329	1					
Efficient Livestock Waterers	14	$909	132,569	11,047						
Premium Motors Rebate Program - Dairy Vacuum Pump										
Variable Speed Drive Motor - Dairy Vacuum Pump	6	$3,117	1,322,778	77,810	6					
Hog Farrowing - Heat Lamps (<= 175W)	82	$319	54,585	13,646						
Hog Farrowing - Single Crate Heating Pads (<=85W)	9	$292	17,953	1,795						
Hog Farrowing - Double Crate Heating Pads(<=170W)										
Hog Farrowing - Heat Lamp or Pad Controller	2	$130	15,472	943						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program						1	$1,000	112,414	9,368	3
Ag, Commercial and Industrial Total	**1,460**	**$38,024**	**4,138,872**	**449,251**	**54**	**2,903**	**$43,503**	**3,369,241**	**600,529**	**31**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	4	$600								
Expert Energy Services - C&I	4	$600				2	$3,160			
Energy Audit Services - Residential *	6	$600								
IV. Educational & Research Programs										
Model Housing Education	2	$11,000								
Domestic Water Heater Enhancement	1	$3,020								
Member Information and Education	1	$1,670				6,319	$16,149			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$18,872				6,319	$21,370			
TOTAL	**9,873**	**$465,415**	**39,866,664**	**2,845,754**	**596**	**32,932**	**$397,592**	**38,513,312**	**3,210,839**	**418**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
East-Central Iowa Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	13	$2,000	59,172	4,227	4	30	$4,529	149,079	10,648	11
ENERGY STAR Qualified Room Air Conditioner	5	$161	4,414	490	0	8	$235	7,062	785	1
Geothermal Heat Pump	63	$128,032	16,612,372	830,619	27	76	$119,853	20,040,322	1,002,016	36
Air Source Heat Pump	58	$52,200	6,784,660	452,311	18	24	$15,882	2,481,444	165,430	6
Heat Recovery Ventilators	22	$3,548	273,497	13,675		14	$2,059	174,044	8,702	
Residential Contractor Rebates	121	$24,200				73	$17,176			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,238	$3,195	587,647	80,500	74	18,234	$33,804	7,536,801	1,032,438	141
Local CFL Rebate Program(s)	4,806	$12,403	2,281,286	312,505	288	251	$482	119,143	16,321	17
ENERGY STAR CFL/LED Fixtures						2	$14	4,364	218	0
T8 or better Lighting Fixtures	32	$524	26,099	1,591	0	102	$2,145	109,097	6,652	4
ENERGY STAR LED lighting						852	$11,233	1,132,421	62,912	38
ENERGY STAR Ceiling Fan	20	$387	59,910	3,328	1	7	$329	20,969	1,165	0
Exterior Lighting										
High Efficiency Exterior Lighting	47	$1,819	48,137	10,884	0	113	$4,065	327,881	74,518	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	238	$38,452	868,201	57,880	8	168	$21,059	623,138	41,543	6
Heat Pump Water Heater - (Add-On)	1	$387	19,121	1,912	0					
Heat Pump Water Heater - (Integrated)	24	$15,484	550,697	45,891	5	26	$15,294	596,589	49,716	6
Solar Water Heaters (w/ Electric auxiliary tank)	1	$452	22,284	1,857	0					
Drain Water Heat Recovery System										
Flow Restrictors - Faucet	216	$8,361	715,589	79,510	4					
Flow Restrictors - Shower	216	$13,935	1,356,906	135,691	11					
Tank Insulation	14	$271	23,761	2,376	0	137	$484	161,557	16,156	3
Pipe Insulation	14	$271	24,764	1,651	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	128	$8,987	310,351	28,214	10	129	$9,512	355,352	32,305	13
ENERGY STAR Qualified Dishwasher	76	$2,452	97,664	8,879	7	87	$2,559	111,799	10,164	9
ENERGY STAR Qualified Refrigerator	100	$3,226	157,049	10,470	1	185	$5,441	290,541	19,369	2
ENERGY STAR Qualified Dehumidifier	42	$1,355	118,313	9,859	1	42	$1,235	118,313	9,859	1
ENERGY STAR Qualified Freezer	38	$1,226	42,089	2,806	0	34	$1,000	37,659	2,511	0
Appliance Recycling	154	$11,776	1,652,766	183,641	29	142	$12,400	1,148,420	127,602	29
Efficient Television	35	$1,806	69,432	5,786	1	48	$2,259	95,221	7,935	2
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	26	$16,774	859,638	28,655	5	16	$8,000	448,334	14,944	4
Advanced Lighting Package	6	$1,548	51,578	2,579	1					
Additional Low Income										
Energy Efficiency Kits	15	$677	152,057	16,895	2					
Weatherization Rebates	8	$3,948	230,383	7,861	1					
Building Shell - Existing Home Only										
Weatherization Rebates	125	$47,945	2,892,081	98,683	13	19	$10,165	808,886	26,963	2
Residential Total	**7,902**	**$407,804**	**36,951,921**	**2,441,225**	**514**	**20,819**	**$301,214**	**36,898,438**	**2,740,873**	**333**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
East-Central Iowa Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	323	$834	174,287	48,413	19	1,947	$3,605	929,167	258,102	15
High Efficiency Interior Lighting	898	$15,783	1,092,703	208,748	3	1,256	$42,938	2,764,349	431,930	13
Exterior Lighting										
High Efficiency Exterior Lighting	8	$310	8,856	1,807	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$226	10,299	687	0					
Air Cooled Chillers										
Water Cooled Chillers										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$516	46,652	3,110	0					
Heat Recovery Ventilators										
Commercial Contractor Rebate (GS & AS)	2	$103								
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Heat Pump Water Heater										
Solar Water Heaters										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Insulation										
Building Envelope										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA										
Variable Speed Drive Motor Incentive										
Agricultural										
Dairy Pre-coolers Incentive	1	$774	146,056	9,737	5					
Dairy Heat Reclaimer	1	$1,032	164,769	10,985	5					
Livestock Ventilation Fans	59	$6,969	311,334	25,945	8	82	$9,162	777,761	64,813	11
Ventilation Thermostat Controller	6	$194	16,267	1,356	0					
Circulating Fans --- BESS Lab Ratings	38	$1,796	150,265	12,522	4	4	$3,953	872,863	72,739	30
Scroll compressor (milk cooling)	2	$645	109,934	7,329	1					
Efficient Livestock Waterers	15	$968	142,039	11,837		2	$118	18,938	1,578	
Premium Motors Rebate Program - Dairy Vacuum Pump										
Variable Speed Drive Motor - Dairy Vacuum Pump	6	$3,097	1,322,778	77,810	6					
Hog Farrowing - Heat Lamps (<= 175W)	86	$333	57,247	14,312						
Hog Farrowing - Single Crate Heating Pads (<=85W)	9	$290	17,953	1,795						
Hog Farrowing - Double Crate Heating Pads(<=170W)										
Hog Farrowing - Heat Lamp or Pad Controller	2	$129	15,472	943						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**1,465**	**$33,998**	**3,786,912**	**437,335**	**52**	**3,291**	**$59,776**	**5,363,078**	**829,162**	**70**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	5	$750								
Expert Energy Services - C&I	5	$750								
Energy Audit Services - Residential *	7	$700					$969			
IV. Educational & Research Programs										
Model Housing Education	2	$11,000				2	$7,000			
Domestic Water Heater Enhancement	1	$3,030								
Member Information and Education	1	$1,680				6,777	$30,192			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$18,872				6,777	$22,517			
TOTAL	**9,388**	**$478,584**	**40,738,833**	**2,878,561**	**567**	**37,666**	**$421,668**	**42,261,516**	**3,570,035**	**402**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
East-Central Iowa Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	13	$1,987	59,172	4,227	4	33	$5,451	153,877	10,991	12
ENERGY STAR Qualified Room Air Conditioner	5	$160	4,414	490	0	5	$168	4,414	490	0
Geothermal Heat Pump	66	$133,269	17,403,437	870,172	28	55	$96,669	14,239,176	711,959	26
Air Source Heat Pump	60	$54,000	7,018,614	467,908	19	29	$21,501	3,121,941	208,129	8
Heat Recovery Ventilators	23	$3,686	285,929	14,296		11	$1,851	136,749	6,837	
Residential Contractor Rebates	126	$25,200				62	$16,689			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,139	$2,921	540,654	74,062	68	15,747	$32,739	6,391,910	875,604	120
Local CFL Rebate Program(s)	4,422	$11,338	2,099,011	287,536	265	179	$435	84,967	11,639	12
ENERGY STAR CFL/LED Fixtures						40	$738	87,286	4,364	2
T8 or better Lighting Fixtures	33	$533	26,786	1,633	0	670	$11,922	771,815	47,062	9
ENERGY STAR LED lighting						626	$7,246	832,037	46,224	28
ENERGY STAR Ceiling Fan	21	$404	62,906	3,495	1	7	$166	20,969	1,165	0
Exterior Lighting										
High Efficiency Exterior Lighting	48	$1,846	49,131	11,110	0	257	$12,806	708,338	160,986	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	239	$39,167	873,706	58,247	8	125	$18,506	481,480	32,099	5
Heat Pump Water Heater - (Add-On)	1	$385	19,121	1,912	0					
Heat Pump Water Heater - (Integrated)	32	$20,513	734,263	61,189	7	22	$14,805	504,806	42,067	5
Solar Water Heaters (w/ Electric auxiliary tank)	1	$449	22,284	1,857	0					
Drain Water Heat Recovery System										
Flow Restrictors - Faucet	222	$8,538	735,467	81,719	4					
Flow Restrictors - Shower	222	$14,231	1,394,597	139,460	11					
Tank Insulation	14	$269	23,761	2,376	0					
Pipe Insulation	14	$269	24,764	1,651	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	130	$9,154	315,201	28,655	10	96	$8,102	264,259	24,024	10
ENERGY STAR Qualified Dishwasher	78	$2,500	100,234	9,112	7	70	$2,355	89,953	8,178	7
ENERGY STAR Qualified Refrigerator	103	$3,301	161,761	10,784	1	113	$3,802	177,466	11,831	1
ENERGY STAR Qualified Dehumidifier	43	$1,378	121,130	10,094	1	25	$841	70,424	5,869	1
ENERGY STAR Qualified Freezer	39	$1,250	43,197	2,880	0	33	$1,110	36,551	2,437	0
Appliance Recycling	158	$12,082	1,695,695	188,411	30	70	$6,664	549,497	61,055	14
Efficient Television	37	$1,897	73,400	6,117	1	32	$1,723	63,481	5,290	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	27	$17,308	892,701	29,757	5	5	$2,961	145,147	4,838	1
Advanced Lighting Package	6	$1,538	51,578	2,579	1					
Additional Low Income										
Energy Efficiency Kits	8	$359	81,097	9,011	1					
Weatherization Rebates	8	$3,923	230,383	7,861	1					
Building Shell - Existing Home Only										
Weatherization Rebates	125	$47,638	2,892,081	98,683	13	24	$14,921	1,150,592	38,353	2
Residential Total	**7,463**	**$421,494**	**38,036,475**	**2,487,282**	**490**	**18,336**	**$284,171**	**30,087,135**	**2,321,492**	**265**
Percentage of 5 year plan goal - Residential										

East-Central Iowa Rural Electric Cooperative	Plan Year 5 (2014) Estimated Achievable Potential					Plan Year 5 (2014) Year to Date Results				
	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	297	$762	160,258	44,516	18	1,678	$3,491	788,398	218,999	13
High Efficiency Interior Lighting	898	$15,681	1,092,703	208,748	3	1,360	$61,124	2,810,669	439,167	28
Exterior Lighting										
High Efficiency Exterior Lighting	8	$308	8,856	1,807	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$224	10,299	687	0	29	$976	42,668	2,845	2
Air Cooled Chillers										
Water Cooled Chillers										
Geothermal Heat Pump	10	$4,487	425,851	21,293	1					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$513	46,652	3,110	0					
Heat Recovery Ventilators										
Commercial Contractor Rebate (GS & AS)	12	$615								
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Heat Pump Water Heater										
Solar Water Heaters										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Insulation										
Building Envelope										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA										
Variable Speed Drive Motor Incentive										
Agricultural										
Dairy Pre-coolers Incentive	1	$769	146,056	9,737	5					
Dairy Heat Reclaimer	1	$1,026	164,769	10,985	5					
Livestock Ventilation Fans	61	$7,159	321,888	26,824	8					
Ventilation Thermostat Controller	6	$192	16,267	1,356	0					
Circulating Fans --- BESS Lab Ratings	39	$1,831	154,219	12,852	4					
Scroll compressor (milk cooling)	2	$641	109,934	7,329	1					
Efficient Livestock Waterers	15	$962	142,039	11,837						
Premium Motors Rebate Program - Dairy Vacuum Pump										
Variable Speed Drive Motor - Dairy Vacuum Pump	6	$3,077	1,322,778	77,810	6					
Hog Farrowing - Heat Lamps (<= 175W)	89	$342	59,244	14,811						
Hog Farrowing - Single Crate Heating Pads (<=85W)	9	$288	17,953	1,795						
Hog Farrowing - Double Crate Heating Pads(<=170W)										
Hog Farrowing - Heat Lamp or Pad Controller	2	$128	15,472	943						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**1,465**	**$39,007**	**4,215,240**	**456,439**	**52**	**3,067**	**$65,591**	**3,641,734**	**661,011**	**43**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	6	$900								
Expert Energy Services - C&I	6	$900								
Energy Audit Services - Residential *	8	$800					$969			
IV. Educational & Research Programs										
Model Housing Education	2	$11,000				1	$3,500			
Domestic Water Heater Enhancement	1	$3,040								
Member Information and Education	1	$1,690				6,943	$28,408			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$18,872				6,943	$22,134			
TOTAL	**8,952**	**$497,703**	**42,251,715**	**2,943,721**	**542**	**35,290**	**$404,773**	**33,728,869**	**2,982,503**	**308**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

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In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Eastern Iowa Light and Power Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Eastern Iowa Light & Power Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Eastern Iowa Light and Power Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Eastern Iowa Light and Power Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Eastern Iowa Light and Power Cooperative.

Eastern Iowa Light and Power Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Eastern Iowa Light and Power Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting,

heating and cooling equipment, water heaters and appliances. Eastern Iowa Light and Power Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Eastern Iowa Light and Power Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, Eastern Iowa Light and Power Cooperative has sixteen large commercial and industrial loads, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Eastern Iowa Light and Power Cooperative also offers energy audits for all member-consumers.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Eastern Iowa Light and Power Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Eastern Iowa Light and Power Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Eastern Iowa Light and Power Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Eastern Iowa Light and Power Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Eastern Iowa Light and Power Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked

with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

The educational value of the rebates has been a definite asset to the program. Members are more aware of earth coupled and air-air heat pumps and energy efficient lighting. They are more aware of “Energy Star” and what it does for them in conserving energy.

This filing marks the end of this 5 year plan for Eastern Iowa Light and Power Cooperative. Eastern Iowa Light and Power Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Eastern Iowa Light and Power Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	1,297	$304,991	6,768,862	1,426,329	483,490	674	$130,393	3,098,069	710,180	221,291
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	155	$5,031	136,831	44,630	15,203	211	$7,141	186,267	68,953	20,696
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	577	$1,235,265	152,148,233	21,622,453	7,607,412	476	$860,511	124,197,258	19,381,101	6,209,863
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	205	$182,967	23,980,263	4,577,696	1,598,684	266	$214,239	29,004,517	5,899,216	1,933,635
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	47	$7,625	584,289	84,535	29,214	58	$8,205	721,038	121,830	36,052
Residential Contractor Rebates	Incentive for heat pump installs	602	$120,400				576	$140,778			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	8,681	$22,566	4,120,649	1,756,686	564,472	153,451	$292,076	66,023,527	21,088,194	9,044,319
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	21,654	$56,290	10,278,601	4,381,701	1,408,028	3,653	$15,333	1,733,986	900,581	237,532
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.	39	$405	85,104	11,893	4,255	101	$2,265	220,398	17,458	11,020
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	305	$3,459	171,310	29,660	10,446	1,334	$28,966	1,430,845	151,474	87,247
ENERGY STAR LED lighting	Rebate for LED lighting.	44	$1,712	58,482	9,156	3,249	3,181	$42,141	4,227,971	377,326	234,887
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	39	$759	116,825	18,139	6,490	97	$2,394	290,564	42,935	16,142
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	1,015	$30,772	934,673	552,913	187,809	1,473	$54,182	3,212,321	1,295,250	730,073
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	1,055	$413,545	3,710,330	730,604	247,355	1,049	$293,119	3,702,097	807,405	246,807
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.						1	$349	19,121	1,912	1,912
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	79	$51,126	1,812,712	372,868	151,059	70	$42,129	1,606,200	304,030	133,850
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	5	$2,273	111,422	27,856	9,285					
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	778	$30,274	2,577,446	800,989	286,383					
Flow Restrictors - Shower	Incentive for low-flow shower head.	778	$50,457	4,887,373	1,366,957	488,737					
Tank Insulation	Incentive for water heater tank insulation.	55	$1,072	93,348	28,004	9,335					
Pipe Insulation	Incentive for water pipe insulation.	55	$1,072	97,288	19,458	6,486					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	1,106	$77,755	2,681,630	719,892	243,785	1,524	$105,854	3,580,029	1,031,257	325,457
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	840	$27,267	1,079,441	289,720	98,131	669	$23,089	859,698	246,729	78,154
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	1,430	$46,418	2,245,804	441,832	149,720	1,819	$62,241	2,852,015	605,999	190,134
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	535	$17,365	1,507,078	369,727	125,590	403	$13,619	1,135,238	284,042	94,603
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	470	$15,257	520,577	102,639	34,705	341	$11,352	377,696	76,720	25,180
Appliance Recycling	Incentives for appliance recycling.	1,923	$147,052	20,638,116	6,766,087	2,293,124	899	$75,276	7,039,254	2,614,998	782,139
Efficient Television	Rebate for efficient television.	420	$21,800	833,188	198,378	69,432	686	$34,552	1,358,889	314,428	113,240
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	247	$11,269	2,503,868	991,185	278,208					
Weatherization Rebates	Rebates for various insulation measures.	89	$32,717	1,613,375	162,517	54,688					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	1,124	$379,471	21,223,476	2,072,716	724,224	98	$27,793	1,942,385	163,466	64,747
Residential Total		**45,649**	**$3,298,431**	**267,520,594**	**49,977,216**	**17,189,001**	**173,110**	**$2,487,998**	**258,819,384**	**56,505,484**	**20,838,978**
Percentage of 5 year plan goal - Residential								**75%**	**97%**		**121%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Eastern Iowa Light and Power Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	1,731	$4,500	934,027	807,284	259,452	9,293	$17,971	4,807,747	2,771,432	1,335,485
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	10,452	$182,209	12,599,687	6,857,981	2,422,003	8,467	$174,795	11,916,175	4,978,559	1,861,902
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	840	$24,995	1,297,663	782,133	264,829					
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	134	$4,349	197,155	38,646	13,144	267	$8,731	395,996	98,164	27,974
Geothermal Heat Pump	Rebate for geothermal heat pump.	50	$22,729	2,129,257	319,389	106,463	178	$83,622	8,635,075	2,300,662	655,598
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	32	$8,304	746,430	141,511	49,762	98	$13,315	1,071,501	455,944	128,137
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	117	$27,330	4,507,942	647,294	225,397	23	$16,700	1,038,445	576,786	141,788
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	82	$4,258				1	$651			
Ag/Commercial & Industrial Water Heating											
Ag/Commercial & Industrial Appliances											
Commercial ENERGY STAR Refrigerators and Freezers	Rebates for ENERGY STAR refrigerators & freezers.						1	$64	5,753	959	479
Ag/Commercial & Industrial Insulation											
Building Envelope	Rebates for insulation.	15	$22,275	1,351,136	170,159	56,720					
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	15	$2,435	159,198	31,840	10,613					
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	50	$77,827	18,511,974	3,455,568	1,234,132	2	$10,937	5,326,350	1,089,968	355,090
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	5	$3,896	730,279	146,056	48,685					
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	308	$36,578	1,625,271	382,132	135,439	95	$11,756	530,238	99,118	44,186
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	32	$1,038	86,757	20,560	7,230	1	$68	2,711	1,130	226
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	194	$9,219	767,141	180,252	63,928	8	$297	31,000	10,979	2,583
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	5	$1,624	274,836	54,967	18,322					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	82	$5,319	776,478	182,283	64,706	8	$530	75,754	16,570	6,312
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	10	$5,195	2,204,630	389,052	129,684					
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	411	$1,599	273,590	192,378	68,397	364	$1,307	242,303	125,812	60,576
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	56	$1,816	111,709	30,919	11,171					
Hog Farrowing - Heat Lamp or Pad Controller	Rebate for controller for heat pad or lamp.	10	$649	77,359	14,151	4,717					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		24	$437,477	35,637,021	8,083,890	2,694,630					
Ag, Commercial and Industrial Total		**14,655**	**$885,622**	**84,999,539**	**22,928,445**	**7,889,425**	**18,806**	**$340,743**	**34,079,049**	**12,526,083**	**4,620,339**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**38%**	**40%**		**59%**
II. Demand Response Programs											
Residential Time-of-Day Price	Residential time of day price.	5	$1,000				569				
Irrigation											
Time of Use Pricing	Irrigation time of use prices.	10	$2,000				91				
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price						43				
Industrial Interruptible Price	Industrial Interruptible Price	30	$8,091,185				27	$7,515,862			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	5					1	$8,059			
Energy Audit Services - Residential *	Energy Audit Services - Residential	375	$196,875				52	$11,744			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	1,133,400	$447,866				903,000	$137,735			
Peak Alert	Peak Alert	94,450	$3,500				18,748	$71			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	94,450	$270,000				92,142	$298,102			
TOTAL		**1,383,029**	**$13,196,479**	**352,520,132**	**72,905,662**	**25,078,425**	**1,206,589**	**$10,800,314**	**292,898,433**	**69,031,567**	**25,459,317**
Percentage of 5 year plan goal achieved								**82%**	**83%**		**102%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Eastern Iowa Light and Power Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	244	$58,158	1,273,913	90,994	87	173	34,038	847,707	60,550	64
ENERGY STAR Qualified Room Air Conditioner	29	$954	25,601	2,845	3	37	$1,664	32,663	3,629	4
Geothermal Heat Pump	94	$204,079	24,786,714	1,239,336	40	107	$191,787	28,214,664	1,410,733	51
Air Source Heat Pump	35	$31,579	4,094,191	272,946	11	53	$30,098	6,199,775	413,318	18
Heat Recovery Ventilators	8	$1,316	99,454	4,973		17	$1,806	211,339	10,567	
Residential Contractor Rebates	98	$19,600				136	$32,029			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,876	$4,937	890,489	121,985	113	9,975	$14,611	5,296,741	725,581	660
Local CFL Rebate Program(s)	4,679	$12,313	2,221,002	304,247	281	1,465	$9,232	695,398	95,260	97
ENERGY STAR CFL/LED Fixtures	6	$63	13,093	655	0					
T8 or better Lighting Fixtures	51	$584	28,467	1,736	0					
ENERGY STAR LED lighting	7	$276	9,304	517	0					
ENERGY STAR Ceiling Fan	6	$118	17,973	999	0					
Exterior Lighting										
High Efficiency Exterior Lighting	193	$5,921	176,523	35,459	1	315	$11,723	375,768	85,402	3
Residential Water Heating (low income included)										
High Efficiency Water Heater	201	$79,868	707,680	47,179	6	318	$57,493	1,120,323	74,688	11
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)	9	$5,921	206,511	17,209	2	7	$3,669	160,620	13,385	2
Solar Water Heaters (w/ Electric auxiliary tank)	1	$461	22,284	1,857	0					
Flow Restrictors - Faucet	115	$4,539	380,985	42,332	2					
Flow Restrictors - Shower	115	$7,566	722,427	72,243	6					
Tank Insulation	11	$217	18,670	1,867	0					
Pipe Insulation	11	$217	19,458	1,297	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	211	$15,013	511,595	46,509	17	367	$26,079	771,191	70,108	28
ENERGY STAR Qualified Dishwasher	160	$5,263	205,608	18,692	14	171	$7,745	219,743	19,977	17
ENERGY STAR Qualified Refrigerator	272	$8,947	427,174	28,478	3	429	$19,411	673,741	44,916	5
ENERGY STAR Qualified Dehumidifier	101	$3,322	284,514	23,709	2	84	$3,765	236,625	19,719	2
ENERGY STAR Qualified Freezer	90	$2,961	99,685	6,646	1	62	$2,788	68,672	4,578	1
Appliance Recycling	366	$27,988	3,928,003	436,445	70	273	$19,473	1,976,252	219,584	59
Efficient Television	71	$3,737	140,848	11,737	3	65	$3,928	128,946	10,745	3
Additional Low Income										
Energy Efficiency Kits	63	$2,901	638,638	70,960	8					
Weatherization Rebates	15	$6,079	309,668	10,504	2					
Building Shell - Existing Home Only										
Weatherization Rebates	185	$63,291	3,489,717	119,068	20	4	$1,433	112,348	3,745	1
Residential Total	**9,323**	**$578,191**	**45,750,189**	**3,033,420**	**693**	**14,058**	**$472,773**	**47,342,515**	**3,286,486**	**1,024**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Eastern Iowa Light and Power Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	374	$984	201,806	56,057	22					
High Efficiency Interior Lighting	1,638	$27,743	1,925,261	376,730	5	877	$4,146	506,848	79,195	13
Exterior Lighting										
High Efficiency Exterior Lighting	160	$4,829	247,425	50,495	2					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	25	$822	36,783	2,452	2	125	$3,393	183,619	12,241	8
Geothermal Heat Pump	10	$4,605	425,851	21,293	1	77	$22,949	3,287,573	164,379	10
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	5	$1,316	116,630	7,775	1	5	$815	116,630	7,775	1
Heat Recovery Ventilators	20	$4,737	770,588	38,529	12	5	$982	192,647	9,632	3
Commercial Contractor Rebate (GS & AS)	15	$789								
Ag/Commercial & Industrial Water Heating										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Insulation										
Building Envelope	3	$4,513	270,227	11,344	1					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$493	31,840	2,123	0					
Variable Speed Drive Motor Incentive	8	$12,632	2,961,916	197,461	17					
Agricultural										
Dairy Pre-coolers Incentive	1	$789	146,056	9,737	5					
Livestock Ventilation Fans	48	$5,782	253,289	21,107	6	7	$515	36,105	3,009	1
Ventilation Thermostat Controller	5	$164	13,556	1,130	0	1	$68	2,711	226	0
Circulating Fans --- BESS Lab Ratings	30	$1,446	118,630	9,886	3	6	$235	23,250	1,937	1
Scroll compressor (milk cooling)	1	$329	54,967	3,664	0					
Efficient Livestock Waterers	13	$855	123,100	10,258		1	$116	9,469	789	
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$1,053	440,926	25,937	2					
Hog Farrowing - Heat Lamps (<= 175W)	63	$249	41,937	10,484						
Hog Farrowing - Single Crate Heating Pads (<=85W)	8	$263	15,958	1,596						
Hog Farrowing - Heat Lamp or Pad Controller	2	$132	15,472	943						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	4	$88,639	7,127,404	538,926	54					
Ag, Commercial and Industrial Total	**2,438**	**$163,166**	**15,339,622**	**1,397,928**	**133**	**1,104**	**$33,218**	**4,358,851**	**279,184**	**37**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	1	$200				141				
Irrigation										
Time of Use Pricing	2	$400			13	21				153
Commercial and Industrial Time-of-Day Price						3				
Industrial Interruptible Price	6	$1,584,767			19,192	6	$1,413,944			17,478
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I	1					1	$8,059			
Energy Audit Services - Residential *	75	$39,375				52	$6,660			
IV. Educational & Research Programs										
Member Information and Education	224,280	$77,880				18,748	$12,286			
Peak Alert	18,690	$650				18,748	$71			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	18,690	$54,000				18,748	$55,728			
TOTAL	**273,506**	**$2,498,629**	**61,089,812**	**4,431,348**	**20,031**	**71,630**	**$2,002,739**	**51,701,366**	**3,565,670**	**18,691**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Eastern Iowa Light and Power Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	254	$60,131	1,325,478	94,677	91	121	$24,476	585,746	41,839	44
ENERGY STAR Qualified Room Air Conditioner	30	$980	26,483	2,943	3	63	$2,022	55,615	6,179	6
Geothermal Heat Pump	108	$232,941	28,478,352	1,423,918	46	105	$194,551	27,423,598	1,371,180	49
Air Source Heat Pump	38	$34,118	4,445,122	296,341	12	58	$52,158	6,171,011	411,401	13
Heat Recovery Ventilators	9	$1,471	111,885	5,594		14	$2,247	174,044	8,702	
Residential Contractor Rebates	113	$22,600				142	$36,469			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,876	$4,905	890,489	121,985	113	7,022	$14,875	3,418,002	468,219	86
Local CFL Rebate Program(s)	4,679	$12,233	2,221,002	304,247	281	956	$2,107	453,789	62,163	63
ENERGY STAR CFL/LED Fixtures	7	$73	15,275	764	0	7	$72	15,275	764	
T8 or better Lighting Fixtures	56	$638	31,305	1,909	0	161	$4,715	212,899	12,982	7
ENERGY STAR LED lighting	8	$314	10,633	591	0	69	$2,652	91,710	5,095	3
ENERGY STAR Ceiling Fan	7	$137	20,969	1,165	0	41	$790	122,816	6,823	1
Exterior Lighting										
High Efficiency Exterior Lighting	198	$6,039	181,729	36,510	1	49	$1,836	60,761	13,809	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	206	$81,307	724,873	48,325	6	194	$63,183	677,411	45,161	7
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)	11	$7,190	252,403	21,034	2	7	$4,494	160,620	13,385	2
Solar Water Heaters (w/ Electric auxiliary tank)	1	$458	22,284	1,857	0					
Flow Restrictors - Faucet	144	$5,647	477,059	53,007	3					
Flow Restrictors - Shower	144	$9,412	904,604	90,460	7					
Tank Insulation	11	$216	18,670	1,867	0					
Pipe Insulation	11	$216	19,458	1,297	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	216	$15,281	523,718	47,611	17	360	$25,438	862,401	78,400	31
ENERGY STAR Qualified Dishwasher	164	$5,359	210,748	19,159	15	124	$3,981	159,346	14,486	12
ENERGY STAR Qualified Refrigerator	279	$9,118	438,167	29,211	3	380	$12,199	593,646	39,576	4
ENERGY STAR Qualified Dehumidifier	104	$3,399	292,965	24,414	2	78	$2,504	219,723	18,310	2
ENERGY STAR Qualified Freezer	92	$3,007	101,900	6,793	1	68	$2,183	75,318	5,021	1
Appliance Recycling	375	$28,676	4,024,594	447,177	71	157	$13,066	1,332,108	148,012	32
Efficient Television	78	$4,078	154,735	12,895	3	153	$7,859	301,535	25,128	7
Additional Low Income										
Energy Efficiency Kits	76	$3,477	770,421	85,602	10					
Weatherization Rebates	17	$6,431	318,959	10,814	3					
Building Shell - Existing Home Only										
Weatherization Rebates	213	$72,497	4,018,383	137,153	22	21	$7,149	418,578	13,953	3
Residential Total	**9,525**	**$632,347**	**51,032,663**	**3,329,318**	**714**	**10,350**	**$481,026**	**43,585,952**	**2,810,588**	**374**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Eastern Iowa Light and Power Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	374	$978	201,806	56,057	22	427	$905	235,309	65,364	5
High Efficiency Interior Lighting	1,964	$34,287	2,358,303	454,624	6	1,795	$34,425	3,383,846	528,726	46
Exterior Lighting										
High Efficiency Exterior Lighting	164	$4,915	253,479	51,730	2					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	26	$850	38,254	2,550	2	10	$1,092	17,577	2,746	2
Geothermal Heat Pump	10	$4,575	425,851	21,293	1	25	$43,821	2,106,772	329,183	20
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	6	$1,569	139,956	9,330	1	79	$9,246	632,973	98,902	7
Heat Recovery Ventilators	22	$5,176	847,647	42,382	13	18	$15,718	845,798	132,156	44
Commercial Contractor Rebate (GS & AS)	16	$837								
Ag/Commercial & Industrial Water Heating										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Insulation										
Building Envelope	3	$4,484	270,227	11,344	1					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$490	31,840	2,123	0					
Variable Speed Drive Motor Incentive	9	$14,118	3,332,155	222,144	19	1	$1,541	370,471	24,698	2
Agricultural										
Dairy Pre-coolers Incentive	1	$784	146,056	9,737	5					
Livestock Ventilation Fans	57	$6,821	300,781	25,065	7					
Ventilation Thermostat Controller	6	$196	16,267	1,356	0					
Circulating Fans --- BESS Lab Ratings	36	$1,724	142,356	11,863	4					
Scroll compressor (milk cooling)	1	$327	54,967	3,664	0					
Efficient Livestock Waterers	15	$980	142,039	11,837		1	$64	9,469	789	
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$1,046	440,926	25,937	2					
Hog Farrowing - Heat Lamps (<= 175W)	76	$298	50,591	12,648						
Hog Farrowing - Single Crate Heating Pads (<=85W)	10	$327	19,948	1,995						
Hog Farrowing - Heat Lamp or Pad Controller	2	$131	15,472	943						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	5	$88,060	7,127,404	538,926	54					
Ag, Commercial and Industrial Total	**2,808**	**$172,972**	**16,356,324**	**1,517,548**	**140**	**2,356**	**$106,812**	**7,602,215**	**1,182,564**	**126**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	1	$200				109				
Irrigation										
Time of Use Pricing	2	$400			13	21				153
Commercial and Industrial Time-of-Day Price						10				
Industrial Interruptible Price	6	$1,630,994			19,270	6	$1,572,213			10,828
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I	1									
Energy Audit Services - Residential *	75	$39,375								
IV. Educational & Research Programs										
Member Information and Education	225,480	$83,332				221,413	$41,931			
Peak Alert	18,790	$675								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	18,790	$54,000				18,246	$58,301			
TOTAL	**275,478**	**$2,614,294**	**67,388,987**	**4,846,866**	**20,137**	**252,511**	**$2,260,283**	**51,188,167**	**3,993,152**	**11,481**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progra

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Eastern Iowa Light and Power Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	262	$61,623	1,367,292	97,664	94	131	23,506	547,451	39,104	42
ENERGY STAR Qualified Room Air Conditioner	31	$1,006	27,366	3,041	3	59	$1,732	52,084	5,787	6
Geothermal Heat Pump	119	$255,000	31,378,925	1,568,946	51	80	$136,477	20,567,699	1,028,385	37
Air Source Heat Pump	42	$37,532	4,913,030	327,535	13	47	$40,705	5,160,407	344,027	12
Heat Recovery Ventilators	10	$1,623	124,317	6,216		7	$1,028	87,022	4,351	
Residential Contractor Rebates	124	$24,800				91	$21,375			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,782	$4,629	845,870	115,873	107	39,230	$75,927	17,458,101	2,391,521	327
Local CFL Rebate Program(s)	4,445	$11,545	2,109,928	289,031	267	547	$1,667	259,647	35,568	36
ENERGY STAR CFL/LED Fixtures	8	$83	17,457	873	0	10	$268	21,822	1,091	
T8 or better Lighting Fixtures	62	$704	34,829	2,124	0	166	$5,176	155,332	9,471	5
ENERGY STAR LED lighting	9	$351	11,962	665	0	345	$6,872	458,551	25,475	15
ENERGY STAR Ceiling Fan	8	$156	23,964	1,331	0	12	$547	35,946	1,997	
Exterior Lighting										
High Efficiency Exterior Lighting	203	$6,156	186,935	37,562	1	52	$1,634	81,244	18,465	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	211	$82,727	742,066	49,471	6	170	$53,644	603,152	40,210	6
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)	14	$9,091	321,240	26,770	3	9	$5,285	206,511	17,209	2
Solar Water Heaters (w/ Electric auxiliary tank)	1	$455	22,284	1,857	0					
Flow Restrictors - Faucet	166	$6,468	549,943	61,105	3					
Flow Restrictors - Shower	166	$10,779	1,042,807	104,281	8					
Tank Insulation	11	$214	18,670	1,867	0					
Pipe Insulation	11	$214	19,458	1,297	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	221	$15,545	535,841	48,713	18	283	$18,689	689,138	62,649	25
ENERGY STAR Qualified Dishwasher	168	$5,455	215,888	19,626	15	123	$3,631	158,061	14,369	12
ENERGY STAR Qualified Refrigerator	286	$9,286	449,161	29,944	3	374	$10,981	585,794	39,053	4
ENERGY STAR Qualified Dehumidifier	107	$3,474	301,416	25,118	2	66	$1,938	185,920	15,493	1
ENERGY STAR Qualified Freezer	94	$3,052	104,115	6,941	1	88	$2,589	97,470	6,498	1
Appliance Recycling	384	$29,365	4,121,184	457,909	73	201	$17,482	1,630,399	181,155	41
Efficient Television	86	$4,468	170,605	14,217	3	157	$7,376	311,453	25,954	7
Additional Low Income										
Energy Efficiency Kits	61	$2,773	618,364	68,707	8					
Weatherization Rebates	19	$6,779	328,249	11,123	3					
Building Shell - Existing Home Only										
Weatherization Rebates	234	$79,190	4,429,985	151,174	25	32	$6,280	400,128	13,338	4
Residential Total	**9,345**	**$674,543**	**55,033,151**	**3,530,981**	**709**	**42,280**	**$444,809**	**49,753,332**	**4,321,170**	**584**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Eastern Iowa Light and Power Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	355	$922	191,554	53,209	21	2,492	$4,825	1,363,833	378,842	18
High Efficiency Interior Lighting	2,210	$39,037	2,683,594	513,242	7	788	$33,063	1,670,798	261,062	8
Exterior Lighting										
High Efficiency Exterior Lighting	168	$5,000	259,533	52,966	2					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	27	$877	39,725	2,648	2					
Geothermal Heat Pump	10	$4,545	425,851	21,293	1					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	7	$1,818	163,282	10,885	1					
Heat Recovery Ventilators	24	$5,610	924,706	46,235	14					
Commercial Contractor Rebate (GS & AS)	17	$883								
Ag/Commercial & Industrial Water Heating										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Insulation										
Building Envelope	3	$4,455	270,227	11,344	1					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$487	31,840	2,123	0					
Variable Speed Drive Motor Incentive	10	$15,584	3,702,395	246,826	22	1	$9,396	4,955,879	330,392	38
Agricultural										
Dairy Pre-coolers Incentive	1	$779	146,056	9,737	5					
Livestock Ventilation Fans	65	$7,728	342,996	28,583	8	4	$338	20,631	1,719	1
Ventilation Thermostat Controller	7	$227	18,978	1,582	0					
Circulating Fans --- BESS Lab Ratings	41	$1,950	162,128	13,511	4					
Scroll compressor (milk cooling)	1	$325	54,967	3,664	0					
Efficient Livestock Waterers	17	$1,104	160,977	13,415		3	$176	28,408	2,367	
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$1,039	440,926	25,937	2					
Hog Farrowing - Heat Lamps (<= 175W)	87	$339	57,913	14,478		76	$214	50,591	12,648	
Hog Farrowing - Single Crate Heating Pads (<=85W)	12	$390	23,938	2,394						
Hog Farrowing - Heat Lamp or Pad Controller	2	$130	15,472	943						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	5	$87,488	7,127,404	538,926	54					
Ag, Commercial and Industrial Total	**3,074**	**$180,717**	**17,244,460**	**1,613,942**	**145**	**3,364**	**$48,012**	**8,090,140**	**987,030**	**65**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	1	$200				109				
Irrigation										
Time of Use Pricing	2	$400			13	20				
Commercial and Industrial Time-of-Day Price						7				
Industrial Interruptible Price	6	$1,585,182			18,272	6	$2,423,702			14,993
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I	1									
Energy Audit Services - Residential *	75	$39,375								
IV. Educational & Research Programs										
Member Information and Education	226,680	$89,164				221,047	$67,682			
Peak Alert	18,890	$700								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	18,890	$54,000				18,332	$60,605			
TOTAL	**276,964**	**$2,624,282**	**72,277,611**	**5,144,923**	**19,139**	**285,165**	**$3,044,810**	**57,843,472**	**5,308,200**	**15,642**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Eastern Iowa Light and Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	267	$62,387	1,393,074	99,505	96	132	$26,609	601,469	42,962	46
ENERGY STAR Qualified Room Air Conditioner	32	$1,032	28,249	3,139	3	37	$1,287	32,663	3,629	4
Geothermal Heat Pump	125	$266,129	32,961,056	1,648,053	54	103	$205,641	27,159,910	1,357,995	49
Air Source Heat Pump	44	$39,097	5,146,983	343,132	14	56	$45,853	5,850,762	390,051	12
Heat Recovery Ventilators	10	$1,613	124,317	6,216		14	$2,252	174,044	8,702	
Residential Contractor Rebates	130	$26,000				112	$28,824			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,639	$4,230	777,991	106,574	98	52,166	$105,781	21,563,126	2,953,853	405
Local CFL Rebate Program(s)	4,089	$10,552	1,940,944	265,883	245	375	$1,215	178,003	24,384	25
ENERGY STAR CFL/LED Fixtures	9	$93	19,639	982	0	18	$601	39,279	1,964	1
T8 or better Lighting Fixtures	67	$756	37,667	2,297	1	148	$2,921	103,964	6,339	3
ENERGY STAR LED lighting	10	$387	13,291	738	0	1,032	$17,032	1,371,665	76,204	45
ENERGY STAR Ceiling Fan	9	$174	26,960	1,498	0	14	$360	41,937	2,330	0
Exterior Lighting										
High Efficiency Exterior Lighting	208	$6,271	192,141	38,613	1	283	$12,090	638,936	145,213	3
Residential Water Heating (low income included)										
High Efficiency Water Heater	216	$84,129	759,259	50,617	7	192	$63,620	689,132	45,942	7
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)	19	$12,258	435,969	36,331	4	22	$14,154	504,806	42,067	5
Solar Water Heaters (w/ Electric auxiliary tank)	1	$452	22,284	1,857	0					
Flow Restrictors - Faucet	174	$6,735	576,447	64,050	3					
Flow Restrictors - Shower	174	$11,226	1,093,063	109,306	9					
Tank Insulation	11	$213	18,670	1,867	0					
Pipe Insulation	11	$213	19,458	1,297	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	226	$15,806	547,964	49,815	18	297	$21,167	713,554	64,869	26
ENERGY STAR Qualified Dishwasher	172	$5,548	221,028	20,093	15	141	$4,536	181,192	16,472	14
ENERGY STAR Qualified Refrigerator	293	$9,452	460,154	30,677	3	376	$12,096	590,505	39,367	4
ENERGY STAR Qualified Dehumidifier	110	$3,548	309,866	25,822	2	105	$3,378	295,782	24,648	2
ENERGY STAR Qualified Freezer	96	$3,097	106,331	7,089	1	70	$2,252	77,533	5,169	1
Appliance Recycling	394	$30,129	4,228,506	469,834	75	176	$16,619	1,333,616	148,180	37
Efficient Television	90	$4,645	178,540	14,878	4	187	$9,625	370,967	30,914	8
Additional Low Income										
Energy Efficiency Kits	31	$1,400	314,251	34,917	4					
Weatherization Rebates	19	$6,735	328,249	11,123	3					
Building Shell - Existing Home Only										
Weatherization Rebates	246	$82,511	4,642,695	158,415	26	17	$5,592	456,137	15,205	2
Residential Total	**8,922**	**$696,820**	**56,925,047**	**3,604,619**	**687**	**56,073**	**$603,505**	**62,968,980**	**5,446,458**	**699**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Eastern Iowa Light and Power Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	327	$844	176,445	49,013	20	3,421	$6,936	1,735,815	482,171	27
High Efficiency Interior Lighting	2,320	$40,701	2,816,265	538,703	8	3,964	$69,600	4,426,083	691,575	75
Exterior Lighting										
High Efficiency Exterior Lighting	172	$5,084	265,586	54,201	2					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	28	$903	41,196	2,746	2	132	$4,246	194,801	12,987	9
Geothermal Heat Pump	10	$4,516	425,851	21,293	1					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	7	$1,806	163,282	10,885	1					
Heat Recovery Ventilators	25	$5,806	963,235	48,162	15					
Commercial Contractor Rebate (GS & AS)	17	$877								
Ag/Commercial & Industrial Water Heating										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers						1	$64	5,753	479	0
Ag/Commercial & Industrial Insulation										
Building Envelope	3	$4,426	270,227	11,344	1					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$484	31,840	2,123	0					
Variable Speed Drive Motor Incentive	11	$17,032	4,072,634	271,509	24					
Agricultural										
Dairy Pre-coolers Incentive	1	$774	146,056	9,737	5					
Livestock Ventilation Fans	68	$8,032	358,826	29,902	9	84	$10,903	473,502	39,458	13
Ventilation Thermostat Controller	7	$226	18,978	1,582	0					
Circulating Fans --- BESS Lab Ratings	43	$2,032	170,036	14,170	4	2	$62	7,750	646	0
Scroll compressor (milk cooling)	1	$323	54,967	3,664	0					
Efficient Livestock Waterers	18	$1,161	170,446	14,204						
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$1,032	440,926	25,937	2					
Hog Farrowing - Heat Lamps (<= 175W)	91	$352	60,576	15,144		240	$926	159,760	39,940	
Hog Farrowing - Single Crate Heating Pads (<=85W)	13	$419	25,932	2,593						
Hog Farrowing - Heat Lamp or Pad Controller	2	$129	15,472	943						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	5	$86,924	7,127,404	538,926	54					
Ag, Commercial and Industrial Total	**3,174**	**$183,885**	**17,816,182**	**1,666,781**	**147**	**7,844**	**$92,737**	**7,003,464**	**1,267,257**	**124**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	1	$200				107				
Irrigation										
Time of Use Pricing	2	$400			13	20				
Commercial and Industrial Time-of-Day Price						10				
Industrial Interruptible Price	6	$1,624,811			18,272	5	$1,303,736			15,598
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I	1									
Energy Audit Services - Residential *	75	$39,375					$2,542			
IV. Educational & Research Programs										
Member Information and Education	227,880	$95,406				221,124	$7,224			
Peak Alert	18,990	$725								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	18,990	$54,000				18,427	$61,783			
TOTAL	**278,041**	**$2,695,622**	**74,741,230**	**5,271,400**	**19,119**	**303,610**	**$2,071,527**	**69,972,444**	**6,713,715**	**16,422**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Eastern Iowa Light and Power Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	270	$62,692	1,409,105	100,650	97	117	$21,764	515,697	36,835	39
ENERGY STAR Qualified Room Air Conditioner	33	$1,058	29,132	3,237	3	15	$436	13,242	1,471	1
Geothermal Heat Pump	131	$277,115	34,543,186	1,727,159	56	81	$132,055	20,831,387	1,041,569	37
Air Source Heat Pump	46	$40,641	5,380,937	358,729	14	52	$45,425	5,622,562	374,837	13
Heat Recovery Ventilators	10	$1,603	124,317	6,216		6	$872	74,590	3,730	
Residential Contractor Rebates	137	$27,400				95	$22,081			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,508	$3,867	715,809	98,056	90	45,058	$80,882	18,287,558	2,505,145	343
Local CFL Rebate Program(s)	3,762	$9,646	1,785,725	244,620	226	310	$1,112	147,149	20,157	20
ENERGY STAR CFL/LED Fixtures	9	$92	19,639	982	0	66	$1,324	144,022	7,201	3
T8 or better Lighting Fixtures	69	$777	39,041	2,381	1	859	$16,154	958,650	58,454	9
ENERGY STAR LED lighting	10	$385	13,291	738	0	1,735	$15,585	2,306,045	128,114	76
ENERGY STAR Ceiling Fan	9	$173	26,960	1,498	0	30	$697	89,865	4,993	1
Exterior Lighting										
High Efficiency Exterior Lighting	213	$6,385	197,346	39,665	1	774	$26,899	2,055,612	467,185	5
Residential Water Heating (low income included)										
High Efficiency Water Heater	221	$85,513	776,451	51,763	7	175	$55,179	612,079	40,805	6
Heat Pump Water Heater - (Add-On)						1	$349	19,121	1,912	0
Heat Pump Water Heater - (Integrated)	26	$16,667	596,589	49,716	5	25	$14,527	573,643	47,804	6
Solar Water Heaters (w/ Electric auxiliary tank)	1	$449	22,284	1,857	0					
Flow Restrictors - Faucet	179	$6,885	593,011	65,890	4					
Flow Restrictors - Shower	179	$11,474	1,124,473	112,447	9					
Tank Insulation	11	$212	18,670	1,867	0					
Pipe Insulation	11	$212	19,458	1,297	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	232	$16,109	562,512	51,137	19	217	$14,481	543,745	49,431	20
ENERGY STAR Qualified Dishwasher	176	$5,641	226,169	20,561	16	110	$3,196	141,355	12,850	11
ENERGY STAR Qualified Refrigerator	300	$9,615	471,148	31,410	3	260	$7,554	408,328	27,222	3
ENERGY STAR Qualified Dehumidifier	113	$3,622	318,317	26,526	2	70	$2,034	197,188	16,432	2
ENERGY STAR Qualified Freezer	98	$3,141	108,546	7,236	1	53	$1,540	58,703	3,914	1
Appliance Recycling	404	$30,894	4,335,829	481,759	77	92	$8,636	766,880	85,209	19
Efficient Television	95	$4,872	188,459	15,705	4	124	$5,764	245,989	20,499	5
Additional Low Income										
Energy Efficiency Kits	16	$718	162,194	18,022	2					
Weatherization Rebates	19	$6,692	328,249	11,123	3					
Building Shell - Existing Home Only										
Weatherization Rebates	246	$81,982	4,642,695	158,415	26	24	$7,339	555,194	18,506	3
Residential Total	**8,534**	**$716,530**	**58,779,544**	**3,690,663**	**667**	**50,349**	**$485,885**	**55,168,605**	**4,974,277**	**623**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Eastern Iowa Light and Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	301	$772	162,416	45,116	18	2,953	$5,305	1,472,790	409,108	23
High Efficiency Interior Lighting	2,320	$40,440	2,816,265	538,703	8	1,043	$33,561	1,928,601	301,344	26
Exterior Lighting										
High Efficiency Exterior Lighting	176	$5,167	271,640	55,437	2					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	28	$897	41,196	2,746	2					
Geothermal Heat Pump	10	$4,487	425,851	21,293	1	76	$16,852	3,240,729	162,036	10
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	7	$1,795	163,282	10,885	1	14	$3,254	321,898	21,460	2
Heat Recovery Ventilators	26	$6,000	1,001,765	50,088	15					
Commercial Contractor Rebate (GS & AS)	17	$872				1	$651			
Ag/Commercial & Industrial Water Heating										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Insulation										
Building Envelope	3	$4,397	270,227	11,344	1					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$481	31,840	2,123	0					
Variable Speed Drive Motor Incentive	12	$18,462	4,442,874	296,192	26					
Agricultural										
Dairy Pre-coolers Incentive	1	$769	146,056	9,737	5					
Livestock Ventilation Fans	70	$8,216	369,380	30,782	9					
Ventilation Thermostat Controller	7	$224	18,978	1,582	0					
Circulating Fans --- BESS Lab Ratings	44	$2,066	173,991	14,499	4					
Scroll compressor (milk cooling)	1	$321	54,967	3,664	0					
Efficient Livestock Waterers	19	$1,218	179,916	14,993		3	$174	28,408	2,367	
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$1,026	440,926	25,937	2					
Hog Farrowing - Heat Lamps (<= 175W)	94	$362	62,573	15,643		48	$167	31,952	7,988	
Hog Farrowing - Single Crate Heating Pads (<=85W)	13	$417	25,932	2,593						
Hog Farrowing - Heat Lamp or Pad Controller	2	$128	15,472	943						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	5	$86,366	7,127,404	538,926	54					
Ag, Commercial and Industrial Total	**3,161**	**$184,882**	**18,242,950**	**1,693,226**	**148**	**4,138**	**$59,964**	**7,024,378**	**904,304**	**60**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	1	$200				103				
Irrigation										
Time of Use Pricing	2	$400			13	9				
Commercial and Industrial Time-of-Day Price						13				
Industrial Interruptible Price	6	$1,665,431			18,272	4	$802,267			14,942
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I	1									
Energy Audit Services - Residential *	75	$39,375					$2,542			
IV. Educational & Research Programs										
Member Information and Education	229,080	$102,084				220,668	$8,612			
Peak Alert	19,090	$750								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	19,090	$54,000				18,389	$61,685			
TOTAL	**279,040**	**$2,763,653**	**77,022,494**	**5,383,889**	**19,100**	**293,673**	**$1,420,955**	**62,192,983**	**5,878,580**	**15,625**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

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A Touchstone Energy® Cooperative

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required ... and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Farmers Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Farmers Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Farmers Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Farmers Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Farmers Electric Cooperative.

Farmers Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Farmers Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Farmers Electric Cooperative offers agricultural related rebates for dairy, livestock ventilation and heating incentives, and lighting incentives. Farmers Electric

Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Farmers Electric Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, one anhydrous ammonia plant and two egg production facilities, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Farmers Electric Cooperative also provides an energy auditing to help the members manage their electrical usage.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Farmers Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Farmers Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Farmers Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to "get the facts" and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment - the cost to operate the product over its lifetime. When a member looks at the price of a Geo-Thermal installation, the first question they ask is how much will it cost? They must be told about how energy efficient it is and also all of the rebates and tax credits that can be applied toward the purchase. As a member of the National Rural Electric Cooperative Association (NRECA), Farmers Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Farmers Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take

advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Farmers Electric Cooperative. Farmers Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Farmers Electric Cooperative, Inc.	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	25	$3,247	86,790	18,598	6,199	47	$6,471	199,671	48,618	14,262
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	10	$325	8,828	2,943	981	20	$649	17,656	6,377	1,962
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	171	$349,443	45,090,724	6,407,629	2,254,536	100	$152,300	26,368,845	4,060,802	1,318,442
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	85	$65,856	9,943,036	1,910,623	662,869	40	$27,857	4,378,004	819,735	291,867
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	5	$812	62,158	9,324	3,108	7	$1,101	87,021	9,945	4,351
Residential Contractor Rebates	Incentive for heat pump installs	248	$49,600				128	$33,889			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	1,919	$4,988	910,900	388,453	124,781	22,628	$45,421	9,779,531	3,208,078	1,339,662
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	250	$649	118,669	48,768	16,256	8,304	$21,971	3,941,697	2,385,078	539,959
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						3	$60	6,546	327	327
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	64	$753	37,992	6,615	2,317	52	$1,370	57,025	7,820	3,478
ENERGY STAR LED lighting	Rebate for LED lighting.						297	$6,451	394,752	37,218	21,931
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.						3	$58	8,987	997	499
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	260	$10,128	258,464	173,966	58,742	757	$9,329	219,394	162,351	49,862
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	365	$50,312	1,348,061	265,027	89,871	106	$17,497	420,396	90,899	28,027
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.						1	$396	19,121	7,648	1,912
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	28	$18,120	642,480	131,938	53,540	24	$15,428	550,697	139,586	45,891
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	19	$8,631	423,405	102,137	35,284					
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	404	$15,721	1,338,417	416,323	148,713	120	$176	354,482	192,148	39,387
Flow Restrictors - Shower	Incentive for low-flow shower head.	404	$26,202	2,537,916	710,491	253,792	107	$345	672,171	327,921	67,218
Tank Insulation	Incentive for water heater tank insulation.	15	$292	25,459	7,638	2,546					
Pipe Insulation	Incentive for water pipe insulation.	15	$292	26,533	5,307	1,769					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	135	$10,001	327,324	89,270	29,757	220	$16,607	564,201	156,655	51,291
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	85	$2,760	109,229	29,790	9,930	122	$3,923	156,776	43,109	14,253
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	185	$6,005	290,541	57,061	19,369	251	$8,099	394,193	83,338	26,279
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	85	$2,760	239,442	59,861	19,954	26	$835	73,241	15,729	6,104
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	75	$2,435	83,071	16,614	5,538	74	$2,405	81,963	14,692	5,464
Appliance Recycling	Incentives for appliance recycling.	330	$25,235	3,541,642	1,156,698	393,516	99	$8,445	795,189	295,167	88,355
Efficient Television	Rebate for efficient television.	70	$3,633	138,865	33,063	11,572	70	$3,577	138,864	23,972	11,572
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	10	$6,494	330,630	33,063	11,021	14	$7,081	382,209	29,217	12,740
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	53	$2,417	537,267	209,500	59,696					
Weatherization Rebates	Rebates for various insulation measures.	10	$1,948	46,454	4,645	1,548					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	230	$80,941	4,705,289	467,390	161,717	27	$9,057	667,608	89,652	22,253
Residential Total		**5,555**	**$750,001**	**73,209,587**	**12,762,733**	**4,438,920**	**33,647**	**$400,797**	**50,730,243**	**12,257,078**	**4,007,350**
Percentage of 5 year plan goal - Residential								**53%**	**69%**		**90%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Farmers Electric Cooperative, Inc.	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	513	$1,334	276,809	239,367	76,891	2,798	$5,727	1,358,374	780,940	377,325
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	1,765	$30,840	2,125,890	1,158,417	408,798	1,646	$92,718	6,803,040	3,846,377	1,062,975
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	5	$195	5,535	3,389	1,130					
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	162	$43,543	6,898,793	1,622,494	344,940	146	$26,161	6,334,966	1,675,727	342,811
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.						15	$3,057	349,889	116,630	23,326
Heat Recovery Ventilators	Rebate for heat recovery ventilators.						48	$8,736	1,849,412	462,353	92,471
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	162	$3,247				3	$950			
Ag/Commercial & Industrial Motors											
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	5	$7,793	1,851,197	370,239	123,413	9	$11,926	2,619,907	398,686	174,660
Agricultural											
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	37	$4,395	195,244	46,612	16,270					
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	5	$162	13,556	3,389	1,130					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	42	$1,997	166,082	39,873	13,840					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	15	$974	142,039	35,510	11,837					
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	42	$164	27,958	20,136	6,990					
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	5	$162	9,974	2,992	997					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		10	$114,079	9,292,885	2,107,995	702,665					
Ag, Commercial and Industrial Total		**2,768**	**$208,884**	**21,005,962**	**5,650,414**	**1,708,900**	**4,665**	**$149,275**	**19,315,587**	**7,280,713**	**2,073,568**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**71%**	**92%**		**121%**

II. Demand Response Programs											
Industrial Interruptible Price	Industrial Interruptible Price	5	$100,538				5	$248,252			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural						3	$300			
Energy Audit Services - Residential *	Energy Audit Services - Residential							$846			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education		$31,890				18,530	$105,064			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	50	$190				1,398	$3,386			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$55,035				18,530	$61,178			
TOTAL		**8,378**	**$1,146,538**	**94,215,549**	**18,413,148**	**6,147,820**	**76,778**	**$969,098**	**70,045,830**	**19,537,791**	**6,080,918**
Percentage of 5 year plan goal achieved								**85%**	**74%**		**99%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Farmers Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	5	$658	17,358	1,240	1	18	2,283	82,146	5,868	6
ENERGY STAR Qualified Room Air Conditioner	2	$66	1,766	196	0	4	$126	3,531	392	0
Geothermal Heat Pump	28	$58,026	7,383,276	369,164	12	22	$29,715	5,801,146	290,057	10
Air Source Heat Pump	15	$11,513	1,754,653	116,977	5	7	$4,396	818,838	54,589	2
Heat Recovery Ventilators	1	$164	12,432	622		1	$132	12,432	622	
Residential Contractor Rebates	40	$8,000				31	$8,769			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	415	$1,092	196,990	26,985	25	1,721	$2,531	913,996	125,205	114
Local CFL Rebate Program(s)	50	$131	23,734	3,251	3	3,833	$9,553	1,819,427	249,237	253
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	11	$129	6,362	388	0					
ENERGY STAR LED lighting										
ENERGY STAR Ceiling Fan										
Exterior Lighting										
High Efficiency Exterior Lighting	50	$1,974	49,705	11,297	1	33	$2,347	39,366	8,947	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	69	$9,671	255,858	17,057	2	33	$6,579	123,804	8,254	1
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)	3	$1,974	68,837	5,736	1	2	$1,031	45,891	3,824	0
Solar Water Heaters (w/ Electric auxiliary tank)	3	$1,382	66,853	5,571	1					
Flow Restrictors - Faucet	60	$2,368	198,775	22,086	1	94	$159	311,414	34,602	2
Flow Restrictors - Shower	60	$3,947	376,918	37,692	3	94	$301	590,505	59,051	5
Tank Insulation	3	$59	5,092	509	0					
Pipe Insulation	3	$59	5,307	354	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$2,026	65,465	5,951	2	46	$2,669	96,662	8,787	4
ENERGY STAR Qualified Dishwasher	17	$559	21,846	1,986	2	26	$816	33,411	3,037	3
ENERGY STAR Qualified Refrigerator	35	$1,151	54,967	3,664	0	61	$1,915	95,800	6,387	1
ENERGY STAR Qualified Dehumidifier	17	$559	47,888	3,991	0	3	$94	8,451	704	0
ENERGY STAR Qualified Freezer	15	$493	16,614	1,108	0	7	$220	7,753	517	0
Appliance Recycling	62	$4,741	665,399	73,933	12	32	$2,046	257,366	28,596	7
Efficient Television	12	$632	23,805	1,984	0	3	$141	5,951	496	0
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,316	66,126	2,204	0	1	$260	33,063	1,102	0
Additional Low Income										
Energy Efficiency Kits	13	$599	131,783	14,643	2					
Weatherization Rebates	2	$395	9,291	310	0					
Building Shell - Existing Home Only										
Weatherization Rebates	38	$13,758	790,724	27,122	4	7	$2,894	264,339	8,811	1
Residential Total	**1,058**	**$127,443**	**12,317,824**	**756,020**	**77**	**6,079**	**$78,976**	**11,365,293**	**899,085**	**412**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Farmers Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	111	$292	59,894	16,637	7					
High Efficiency Interior Lighting	277	$4,739	329,279	64,029	1	175	$4,593	239,165	37,370	13
Exterior Lighting										
High Efficiency Exterior Lighting	1	$39	1,107	226	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	150	$38,158	6,387,772	319,389	18	143	$17,847	6,089,676	304,484	19
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)						15	$3,057	349,889	23,326	2
Heat Recovery Ventilators						48	$8,736	1,849,412	92,471	31
Commercial Contractor Rebate (GS & AS)	150	$2,632								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,579	370,239	24,683	2	1	$926	246,826	16,455	2
Agricultural										
Livestock Ventilation Fans	6	$723	31,661	2,638	1					
Ventilation Thermostat Controller	1	$33	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	7	$337	27,680	2,307	1					
Efficient Livestock Waterers	3	$197	28,408	2,367						
Hog Farrowing - Heat Lamps (<= 175W)	7	$28	4,660	1,165						
Hog Farrowing - Single Crate Heating Pads (<=85W)	1	$33	1,995	199						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$23,114	1,858,577	140,533	14					
Ag, Commercial and Industrial Total	**717**	**$71,904**	**9,103,984**	**574,399**	**43**	**382**	**$35,159**	**8,774,968**	**474,105**	**65**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$18,870			297	1	$32,739			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural						3	$300			
Energy Audit Services - Residential *										
IV. Educational & Research Programs										
Member Information and Education		$6,378				3,696	$44,077			
Living with Energy in Iowa	10	$34				271	$389			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$11,007				3,696	$12,137			
TOTAL	**1,786**	**$235,637**	**21,421,807**	**1,330,419**	**418**	**14,128**	**$203,777**	**20,140,262**	**1,373,190**	**477**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Farmers Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	5	$654	17,358	1,240	1	6	$990	29,254	2,090	2
ENERGY STAR Qualified Room Air Conditioner	2	$65	1,766	196	0	6	$198	5,297	589	1
Geothermal Heat Pump	32	$65,882	8,438,030	421,902	14	26	$41,866	6,855,900	342,795	12
Air Source Heat Pump	16	$12,353	1,871,630	124,775	5	5	$3,134	467,908	31,194	1
Heat Recovery Ventilators	1	$163	12,432	622						
Residential Contractor Rebates	46	$9,200				29	$7,654			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	415	$1,085	196,990	26,985	25	1,153	$2,510	561,210	76,878	14
Local CFL Rebate Program(s)	50	$131	23,734	3,251	3	4,295	$11,336	2,038,727	279,278	284
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	12	$141	7,049	430	0	10	$113	3,705	226	
ENERGY STAR LED lighting						3	$119	3,987	222	
ENERGY STAR Ceiling Fan						1	$20	2,996	166	
Exterior Lighting										
High Efficiency Exterior Lighting	51	$2,000	50,699	11,522	1	634	$4,487	76,569	17,402	
Residential Water Heating (low income included)										
High Efficiency Water Heater	71	$9,869	262,735	17,516	2	19	$3,035	81,864	5,458	1
Heat Pump Water Heater - (Add-On)						1	$396	19,121	1,912	
Heat Pump Water Heater - (Integrated)	4	$2,614	91,783	7,649	1	8	$5,279	183,566	15,297	2
Solar Water Heaters (w/ Electric auxiliary tank)	4	$1,830	89,138	7,428	1					
Flow Restrictors - Faucet	75	$2,941	248,468	27,608	2	26	$17	43,068	4,785	
Flow Restrictors - Shower	75	$4,902	471,148	47,115	4	13	$44	81,666	8,167	1
Tank Insulation	3	$59	5,092	509	0					
Pipe Insulation	3	$59	5,307	354	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$2,013	65,465	5,951	2	43	$3,603	119,643	10,877	4
ENERGY STAR Qualified Dishwasher	17	$556	21,846	1,986	2	28	$924	35,981	3,271	3
ENERGY STAR Qualified Refrigerator	36	$1,176	56,538	3,769	0	55	$1,815	86,377	5,758	1
ENERGY STAR Qualified Dehumidifier	17	$556	47,888	3,991	0	4	$132	11,268	939	
ENERGY STAR Qualified Freezer	15	$490	16,614	1,108	0	10	$330	11,076	738	
Appliance Recycling	64	$4,894	686,864	76,318	12	10	$825	90,520	10,058	2
Efficient Television	13	$680	25,789	2,149	1	8	$422	15,870	1,323	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,307	66,126	2,204	0	2	$924	45,958	1,532	
Additional Low Income										
Energy Efficiency Kits	16	$732	162,194	18,022	2					
Weatherization Rebates	2	$392	9,291	310	0					
Building Shell - Existing Home Only										
Weatherization Rebates	44	$15,855	916,082	31,451	5	9	$3,744	272,373	9,079	1
Residential Total	**1,118**	**$142,600**	**13,868,054**	**846,359**	**83**	**6,404**	**$93,917**	**11,143,904**	**830,034**	**329**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Farmers Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	111	$290	59,894	16,637	7	129	$282	66,623	18,506	1
High Efficiency Interior Lighting	331	$5,777	396,727	76,519	1	912	$61,859	4,658,910	727,955	62
Exterior Lighting										
High Efficiency Exterior Lighting	1	$39	1,107	226	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump						3	$8,314	245,290	38,327	2
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Heat Recovery Ventilators										
Commercial Contractor Rebate (GS & AS)						3	$950			
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,569	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	7	$838	36,938	3,078	1					
Ventilation Thermostat Controller	1	$33	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	8	$383	31,635	2,636	1					
Efficient Livestock Waterers	3	$196	28,408	2,367						
Hog Farrowing - Heat Lamps (<= 175W)	8	$31	5,325	1,331						
Hog Farrowing - Single Crate Heating Pads (<=85W)	1	$33	1,995	199						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$22,963	1,858,577	140,533	14					
Ag, Commercial and Industrial Total	**474**	**$32,152**	**2,793,556**	**268,436**	**26**	**1,047**	**$71,405**	**4,970,823**	**784,788**	**65**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$19,667			302	1	$80,714			364
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Energy Audit Services - Residential *										
IV. Educational & Research Programs										
Member Information and Education		$6,378				3,705	$21,512			
Living with Energy in Iowa	10	$36				274	$782			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$11,007				3,705	$12,237			
TOTAL	**1,603**	**$211,839**	**16,661,611**	**1,114,795**	**410**	**15,136**	**$280,567**	**16,114,727**	**1,614,822**	**758**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Farmers Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	5	$649	17,358	1,240	1	5	823	20,166	1,440	2
ENERGY STAR Qualified Room Air Conditioner	2	$65	1,766	196	0	4	$137	3,531	392	
Geothermal Heat Pump	35	$71,591	9,229,096	461,455	15	14	$23,438	3,691,638	184,582	7
Air Source Heat Pump	17	$13,182	1,988,607	132,574	5	10	$7,858	1,108,404	73,894	3
Heat Recovery Ventilators	1	$162	12,432	622		2	$344	24,863	1,243	
Residential Contractor Rebates	51	$10,200				19	$5,216			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	394	$1,023	187,022	25,619	24	5,859	$13,261	2,609,068	357,407	50
Local CFL Rebate Program(s)	50	$130	23,734	3,251	3	40	$92	18,987	2,601	3
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	13	$153	7,736	472	0	19	$727	30,040	1,832	1
ENERGY STAR LED lighting						70	$2,856	93,039	5,169	3
ENERGY STAR Ceiling Fan										
Exterior Lighting										
High Efficiency Exterior Lighting	52	$2,026	51,693	11,748	1	34	$1,420	39,643	9,010	
Residential Water Heating (low income included)										
High Efficiency Water Heater	73	$10,065	269,612	17,974	2	19	$2,882	73,598	4,907	1
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)	5	$3,247	114,729	9,561	1	6	$4,118	137,674	11,473	1
Solar Water Heaters (w/ Electric auxiliary tank)	4	$1,818	89,138	7,428	1					
Flow Restrictors - Faucet	86	$3,351	284,910	31,657	2					
Flow Restrictors - Shower	86	$5,584	540,249	54,025	4					
Tank Insulation	3	$58	5,092	509	0					
Pipe Insulation	3	$58	5,307	354	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$2,000	65,465	5,951	2	54	$4,516	144,738	13,158	5
ENERGY STAR Qualified Dishwasher	17	$552	21,846	1,986	2	19	$652	24,416	2,220	2
ENERGY STAR Qualified Refrigerator	37	$1,201	58,108	3,874	0	49	$1,681	76,954	5,130	1
ENERGY STAR Qualified Dehumidifier	17	$552	47,888	3,991	0	5	$171	14,085	1,174	
ENERGY STAR Qualified Freezer	15	$487	16,614	1,108	0	24	$823	26,583	1,772	
Appliance Recycling	66	$5,047	708,328	78,703	13	30	$3,089	252,833	28,093	6
Efficient Television	14	$727	27,773	2,314	1	13	$714	25,789	2,149	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,299	66,126	2,204	0	3	$1,647	79,021	2,634	1
Additional Low Income										
Energy Efficiency Kits	13	$591	131,783	14,643	2					
Weatherization Rebates	2	$390	9,291	310	0					
Building Shell - Existing Home Only										
Weatherization Rebates	48	$16,984	993,301	34,175	5	6	$1,046	66,721	2,224	1
Residential Total	**1,138**	**$153,193**	**14,975,002**	**907,943**	**84**	**6,304**	**$77,511**	**8,561,791**	**712,504**	**88**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Farmers Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	105	$273	56,657	15,738	6	748	$1,697	379,938	105,538	5
High Efficiency Interior Lighting	373	$6,610	452,032	86,549	1	188	$16,066	1,272,878	198,887	17
Exterior Lighting										
High Efficiency Exterior Lighting	1	$39	1,107	226	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Heat Recovery Ventilators										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,558	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	8	$951	42,215	3,518	1					
Ventilation Thermostat Controller	1	$32	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	9	$428	35,589	2,966	1					
Efficient Livestock Waterers	3	$195	28,408	2,367						
Hog Farrowing - Heat Lamps (<= 175W)	9	$35	5,991	1,498						
Hog Farrowing - Single Crate Heating Pads (<=85W)	1	$32	1,995	199						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$22,814	1,858,577	140,533	14					
Ag, Commercial and Industrial Total	**513**	**$32,968**	**2,855,521**	**278,503**	**26**	**936**	**$17,763**	**1,652,816**	**304,425**	**22**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$20,159			302	1	$96,000			308
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Energy Audit Services - Residential *										
IV. Educational & Research Programs										
Member Information and Education		$6,378				3,720	$16,512			
Living with Energy in Iowa	10	$38				285	$758			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$11,007				3,720	$12,460			
TOTAL	**1,662**	**$223,743**	**17,830,523**	**1,186,446**	**412**	**14,966**	**$221,004**	**10,214,607**	**1,016,929**	**418**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Farmers Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	5	$645	17,358	1,240	1	7	$875	24,301	1,736	2
ENERGY STAR Qualified Room Air Conditioner	2	$65	1,766	196	0	3	$94	2,648	294	0
Geothermal Heat Pump	37	$75,194	9,756,473	487,824	16	14	$24,031	3,691,638	184,582	7
Air Source Heat Pump	18	$14,000	2,105,584	140,372	6	9	$5,906	1,022,110	68,141	3
Heat Recovery Ventilators	1	$161	12,432	622		1	$156	12,432	622	
Residential Contractor Rebates	54	$10,800				23	$5,750			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	362	$934	171,832	23,539	22	7,455	$14,686	3,081,683	422,148	58
Local CFL Rebate Program(s)	50	$129	23,734	3,251	3	79	$795	37,499	5,137	5
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	14	$165	8,423	514	0					
ENERGY STAR LED lighting						58	$1,480	77,090	4,283	3
ENERGY STAR Ceiling Fan										
Exterior Lighting										
High Efficiency Exterior Lighting	53	$2,052	52,687	11,974	1	25	$675	28,489	6,475	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	75	$10,258	276,489	18,433	2	13	$1,938	55,033	3,669	1
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)	7	$4,516	160,620	13,385	1	5	$3,125	114,729	9,561	1
Solar Water Heaters (w/ Electric auxiliary tank)	4	$1,806	89,138	7,428	1					
Flow Restrictors - Faucet	90	$3,484	298,162	33,129	2					
Flow Restrictors - Shower	90	$5,806	565,377	56,538	5					
Tank Insulation	3	$58	5,092	509	0					
Pipe Insulation	3	$58	5,307	354	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$1,987	65,465	5,951	2	46	$3,544	123,934	11,267	4
ENERGY STAR Qualified Dishwasher	17	$548	21,846	1,986	2	21	$656	26,986	2,453	2
ENERGY STAR Qualified Refrigerator	38	$1,226	59,679	3,979	0	38	$1,188	59,679	3,979	0
ENERGY STAR Qualified Dehumidifier	17	$548	47,888	3,991	0	7	$219	19,719	1,643	0
ENERGY STAR Qualified Freezer	15	$484	16,614	1,108	0	19	$594	21,045	1,403	0
Appliance Recycling	68	$5,200	729,793	81,088	13	7	$650	54,604	6,067	1
Efficient Television	15	$774	29,757	2,480	1	13	$650	25,789	2,149	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,290	66,126	2,204	0	2	$1,250	66,126	2,204	0
Additional Low Income										
Energy Efficiency Kits	7	$316	70,960	7,884	1					
Weatherization Rebates	2	$387	9,291	310	0					
Building Shell - Existing Home Only										
Weatherization Rebates	50	$17,227	1,002,591	34,485	5	3	$435	14,052	468	0
Residential Total	**1,126**	**$160,120**	**15,670,482**	**944,772**	**84**	**7,848**	**$68,697**	**8,559,586**	**738,280**	**90**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Farmers Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	97	$250	52,340	14,539	6	1,031	$2,030	493,275	137,021	8
High Efficiency Interior Lighting	392	$6,879	473,926	90,851	1	163	$5,129	334,622	52,285	1
Exterior Lighting										
High Efficiency Exterior Lighting	1	$39	1,107	226	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Heat Recovery Ventilators										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,548	370,239	24,683	2	8	$11,000	2,373,080	158,205	24
Agricultural										
Livestock Ventilation Fans	8	$945	42,215	3,518	1					
Ventilation Thermostat Controller	1	$32	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	9	$425	35,589	2,966	1					
Efficient Livestock Waterers	3	$194	28,408	2,367						
Hog Farrowing - Heat Lamps (<= 175W)	9	$35	5,991	1,498						
Hog Farrowing - Single Crate Heating Pads (<=85W)	1	$32	1,995	199						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$22,667	1,858,577	140,533	14					
Ag, Commercial and Industrial Total	**524**	**$33,046**	**2,873,098**	**281,605**	**25**	**1,202**	**$18,159**	**3,200,977**	**347,511**	**33**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$20,663			302	1	$19,907			345
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Energy Audit Services - Residential *							$423			
IV. Educational & Research Programs										
Member Information and Education		$6,378				3,703	$7,392			
Living with Energy in Iowa	10	$40				285	$710			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$11,007				3,703	$12,308			
TOTAL	**1,661**	**$231,254**	**18,543,580**	**1,226,377**	**412**	**16,742**	**$127,596**	**11,760,563**	**1,085,791**	**467**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Farmers Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	5	$641	17,358	1,240	1	11	$1,500	43,804	3,129	3
ENERGY STAR Qualified Room Air Conditioner	2	$64	1,766	196	0	3	$94	2,648	294	0
Geothermal Heat Pump	39	$78,750	10,283,849	514,192	17	24	$33,250	6,328,523	316,426	11
Air Source Heat Pump	19	$14,808	2,222,561	148,171	6	9	$6,563	960,745	64,050	2
Heat Recovery Ventilators	1	$160	12,432	622		3	$469	37,295	1,865	
Residential Contractor Rebates	57	$11,400				26	$6,500			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	333	$854	158,067	21,653	20	6,440	$12,433	2,613,574	358,024	49
Local CFL Rebate Program(s)	50	$128	23,734	3,251	3	57	$195	27,056	3,706	4
ENERGY STAR CFL/LED Fixtures						3	$60	6,546	327	0
T8 or better Lighting Fixtures	14	$164	8,423	514	0	23	$530	23,280	1,420	0
ENERGY STAR LED lighting						166	$1,996	220,636	12,258	7
ENERGY STAR Ceiling Fan						2	$38	5,991	333	0
Exterior Lighting										
High Efficiency Exterior Lighting	54	$2,077	53,681	12,200	1	31	$400	35,327	8,029	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	77	$10,449	283,366	18,891	2	22	$3,063	86,096	5,740	1
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)	9	$5,769	206,511	17,209	2	3	$1,875	68,837	5,736	1
Solar Water Heaters (w/ Electric auxiliary tank)	4	$1,795	89,138	7,428	1					
Flow Restrictors - Faucet	93	$3,577	308,101	34,233	2					
Flow Restrictors - Shower	93	$5,962	584,223	58,422	5					
Tank Insulation	3	$58	5,092	509	0					
Pipe Insulation	3	$58	5,307	354	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$1,974	65,465	5,951	2	31	$2,275	79,224	7,202	3
ENERGY STAR Qualified Dishwasher	17	$545	21,846	1,986	2	28	$875	35,981	3,271	3
ENERGY STAR Qualified Refrigerator	39	$1,250	61,249	4,083	0	48	$1,500	75,384	5,026	1
ENERGY STAR Qualified Dehumidifier	17	$545	47,888	3,991	0	7	$219	19,719	1,643	0
ENERGY STAR Qualified Freezer	15	$481	16,614	1,108	0	14	$438	15,507	1,034	0
Appliance Recycling	70	$5,353	751,257	83,473	13	20	$1,835	139,866	15,541	4
Efficient Television	16	$821	31,740	2,645	1	33	$1,650	65,465	5,455	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,282	66,126	2,204	0	6	$3,000	158,041	5,268	1
Additional Low Income										
Energy Efficiency Kits	4	$179	40,548	4,505	1					
Weatherization Rebates	2	$385	9,291	310	0					
Building Shell - Existing Home Only										
Weatherization Rebates	50	$17,117	1,002,591	34,485	5	2	$938	50,124	1,671	0
Residential Total	**1,115**	**$166,644**	**16,378,225**	**983,827**	**84**	**7,012**	**$81,696**	**11,099,669**	**827,447**	**93**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Farmers Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	89	$228	48,023	13,340	5	890	$1,718	418,538	116,261	7
High Efficiency Interior Lighting	392	$6,835	473,926	90,851	1	208	$5,071	297,465	46,479	2
Exterior Lighting										
High Efficiency Exterior Lighting	1	$38	1,107	226	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	12	$5,385	511,022	25,551	1					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Heat Recovery Ventilators										
Commercial Contractor Rebate (GS & AS)	12	$615								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,538	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	8	$939	42,215	3,518	1					
Ventilation Thermostat Controller	1	$32	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	9	$423	35,589	2,966	1					
Efficient Livestock Waterers	3	$192	28,408	2,367						
Hog Farrowing - Heat Lamps (<= 175W)	9	$35	5,991	1,498						
Hog Farrowing - Single Crate Heating Pads (<=85W)	1	$32	1,995	199						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$22,521	1,858,577	140,533	14					
Ag, Commercial and Industrial Total	**540**	**$38,814**	**3,379,803**	**305,957**	**26**	**1,098**	**$6,789**	**716,003**	**162,739**	**9**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$21,179			302	1	$18,892			292
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Energy Audit Services - Residential *							$423			
IV. Educational & Research Programs										
Member Information and Education		$6,378				3,706	$15,571			
Living with Energy in Iowa	10	$42				283	$746			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$11,007				3,706	$12,036			
TOTAL	**1,666**	**$244,064**	**19,758,028**	**1,289,784**	**413**	**15,806**	**$136,153**	**11,815,672**	**990,186**	**394**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progra

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Franklin Rural Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Franklin Rural Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Franklin Rural Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Franklin Rural Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Franklin Rural Electric Cooperative.

Franklin Rural Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Franklin Rural Electric Cooperative offers programs for residential member-consumers in the

form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Franklin Rural Electric Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Franklin Rural Electric Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Franklin Rural Electric Cooperative also offers energy audits for all member-consumers.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Franklin Rural Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Franklin Rural Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Franklin Rural Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to "get the facts" and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment - the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Franklin Rural Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Franklin Rural Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Franklin Rural Electric Cooperative. Franklin Rural Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

Franklin Rural Electric Cooperative	Measure Description	5 Year Plan (2010-2014) Estimated Achievable Potential Goals: Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	5 Year Plan (2010-2014) Plan to Date Results: Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	33	$6,814	152,587	30,922	10,899	22	$8,206	113,085	25,830	8,078
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	54	$95,564	14,341,244	2,164,466	717,062	43	$63,645	11,419,880	1,792,655	570,994
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	79	$49,375	9,307,417	1,790,794	620,494	76	$44,984	8,953,971	1,916,465	596,932
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	9	$1,408	112,687	15,651	5,634	2	$290	25,042	3,756	1,252
Residential Contractor Rebates	Incentive for heat pump installs						91	$21,850			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	1,750	$3,835	836,635	343,823	114,608	2,833	$7,447	1,354,391	683,257	185,533
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	1,917	$7,190	916,474	365,041	125,544	6,138	$20,882	2,934,436	1,593,962	401,978
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						131	$786	287,912	14,396	14,396
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	282	$2,116	248,430	40,809	15,148	208	$1,532	68,193	13,583	4,158
ENERGY STAR LED lighting	Rebate for LED lighting.	144	$541	192,767	25,583	10,709	79	$382	105,754	12,049	5,875
CFL Recycling	Recycling of compact florescent light bulbs.	3	$285				36	$179			
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	50	$5,000	50,061	34,133	11,378					
LED Holiday Lighting	Rebate for holiday lighting.	294	$737	274,126	64,025	22,844	358	$1,228	333,799	86,558	27,817
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	219	$42,875	1,016,516	202,564	67,768	156	$79,734	663,053	135,614	44,204
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	5	$1,875	96,293	28,888	9,629	2	$1,840	38,517	19,259	3,852
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	5	$1,875	115,551	28,888	9,629	1	$3,019	23,110	5,778	1,926
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	480	$4,024	1,601,597	532,383	177,955	348	$2,867	1,161,157	412,262	129,017
Flow Restrictors - Shower	Incentive for low-flow shower head.	260	$4,360	1,645,020	493,506	164,502	179	$2,945	1,132,533	356,207	113,253
Pipe Insulation	Incentive for water pipe insulation.	40	$250	71,262	14,252	4,751					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	64	$4,160	156,288	40,404	14,208	130	$8,173	311,758	88,356	28,342
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	39	$1,218	50,476	12,590	4,589	79	$2,426	102,246	28,238	9,295
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	64	$2,001	101,232	19,192	6,749	124	$3,764	196,137	37,330	13,076
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	64	$2,001	71,395	13,535	4,760	30	$916	33,467	7,066	2,231
Appliance Recycling	Incentives for appliance recycling.	235	$16,157	1,977,421	640,814	220,735	124	$11,103	995,921	362,149	111,952
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	5	$6,250	166,500	16,650	5,550	1	$1,072	33,300	2,220	1,110
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	250	$7,815	2,542,455	847,485	282,495	145	$4,252	1,474,623	471,202	163,847
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	105	$40,832	3,360,747	354,978	118,326	79	$50,625	2,693,530	267,416	92,081
Residential Total		**6,450**	**$308,556**	**39,405,179**	**8,121,375**	**2,745,966**	**11,415**	**$344,148**	**34,455,815**	**8,335,608**	**2,531,199**
Percentage of 5 year plan goal - Residential								**112%**	**87%**		**92%**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.						215	$513	116,843	110,203	32,457
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	28	$280	36,202	14,949	5,657	11,182	$50,751	12,136,856	3,449,887	2,010,756
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)						24	$480	56,889	11,610	11,610
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.						42	$12,530	2,513,617	143,041	125,681
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.						1	$100			
Agricultural											
Efficient Livestock Waterers	Rebate for efficient livestock waterer.						3	$200	28,611	11,128	2,385
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		20	$20,000	1,324,452	794,671	264,890					
Ag, Commercial and Industrial Total		**48**	**$20,280**	**1,360,654**	**809,621**	**270,547**	**11,467**	**$64,574**	**14,852,816**	**3,725,868**	**2,182,888**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**318%**	**1092%**		**807%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.						16	$800			
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	Dual fuel for space heating and air conditioning.						44	$2,200			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural							$10,377			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.							$17,134			
Energy Audit Services - Residential *	Energy Audit Services - Residential	90	$18,000				52	$6,239			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.							$2,186			
Member Information and Education	Member Information and Education	7,385	$165,000				7,250	$156,951			
Peak Alert	Peak Alert	7,385									
Living with Energy in Iowa	Living with Energy in Iowa magazine.	7,385	$10,608				7,250	$21,977			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,385	$26,000				7,250	$30,016			
TOTAL		**36,128**	**$548,443**	**40,765,833**	**8,930,996**	**3,016,513**	**44,744**	**$656,602**	**49,308,631**	**12,061,476**	**4,714,088**
Percentage of 5 year plan goal achieved								**120%**	**121%**		**156%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Franklin Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	6	$1,375	31,235	2,231	2	4	933	20,870	1,491	2
Geothermal Heat Pump	12	$22,588	3,186,943	159,347	18	12	$18,280	3,186,943	159,347	21
Air Source Heat Pump	13	$8,125	1,531,600	102,107	13	18	$11,490	2,120,677	141,378	20
Heat Recovery Ventilators	1	$156	12,521	626			$6			
Residential Contractor Rebates						30	$3,529			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	350	$767	167,327	22,922	21	476		227,565	31,173	32
Local CFL Rebate Program(s)	424	$1,590	202,705	27,768	25	2,963	$9,786	1,416,542	194,047	197
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	38	$285	34,806	2,122	1	12	$90	16,165	986	0
ENERGY STAR LED lighting	11	$41	14,725	818	0	3	$12	4,016	223	0
CFL Recycling	1	$95				35	$90			
Exterior Lighting										
High Efficiency Exterior Lighting	10	$1,000	10,012	2,276						
LED Holiday Lighting	47	$118	43,823	3,652	12	76	$309	70,862	5,905	21
Residential Water Heating (low income included)										
High Efficiency Water Heater	43	$8,375	198,868	13,258	2	33	$13,605	135,098	9,007	1
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0	2	$1,840	38,517	3,852	0
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0		$7			
Flow Restrictors - Faucet	95	$796	316,983	35,220	2	66	$1,038	220,220	24,469	1
Flow Restrictors - Shower	52	$872	329,004	32,900	3	33	$1,044	208,791	20,879	2
Pipe Insulation	8	$50	14,252	950	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	10	$650	24,420	2,220	1	32	$2,136	78,144	7,104	3
ENERGY STAR Qualified Dishwasher	5	$156	6,471	588	0	14	$472	18,120	1,647	1
ENERGY STAR Qualified Refrigerator	10	$313	15,818	1,055	0	16	$546	25,308	1,687	0
ENERGY STAR Qualified Freezer	10	$313	11,156	744	0	8	$263	8,924	595	0
Appliance Recycling	41	$2,819	358,208	39,869	7	33	$2,479	223,909	25,423	7
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0		$3			
Additional Low Income										
Energy Efficiency Kits	50	$1,563	508,491	56,499	7	33	$836	335,604	37,289	5
Building Shell - Existing Home Only										
Weatherization Rebates	21	$8,166	672,149	23,665	1	6	$2,537	266,184	9,024	1
Residential Total	**1,261**	**$62,211**	**7,767,186**	**535,798**	**117**	**3,905**	**$71,332**	**8,622,459**	**675,527**	**315**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	4	$40	5,172	808	0	400	$800	198,557	76,368	1
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Commercial Contractor Rebate (GS & AS)										
Agricultural										
Efficient Livestock Waterers						2	$150	19,074	1,590	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	4	$4,000	264,890	52,978	11					
Ag, Commercial and Industrial Total	**8**	**$4,040**	**270,062**	**53,786**	**11**	**402**	**$950**	**217,631**	**77,958**	**1**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control										
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Expert Energy Services - C&I							$3,415			
Energy Audit Services - Residential *	12	$2,400				9	$3,032			
IV. Educational & Research Programs										
Model Housing Education							$537			
Member Information and Education	1,477	$33,000				1,472	$40,743			
Peak Alert	1,477									
Living with Energy in Iowa	1,477	$2,122				1,472	$4,767			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,477	$5,200				1,472	$5,271			
TOTAL	**7,189**	**$108,972**	**8,037,248**	**589,584**	**127**	**8,732**	**$130,047**	**8,840,091**	**753,485**	**316**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Franklin Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	5	$875	19,829	1,416	2	7	$2,661	35,229	2,516	2
Geothermal Heat Pump	10	$17,375	2,655,786	132,789	15	9	$13,286	2,390,207	119,510	15
Air Source Heat Pump	16	$10,000	1,885,046	125,670	16	19	$11,844	2,238,493	149,233	22
Heat Recovery Ventilators	2	$313	25,042	1,252		1	$153	12,521	626	
Residential Contractor Rebates							$2,800			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	350	$767	167,327	22,922	21	1,135	$4,897	542,617	74,331	76
Local CFL Rebate Program(s)	290	$1,088	138,642	18,992	17	192	$1,241	91,791	12,574	13
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	47	$353	41,141	2,509	1	21	$228	14,527	886	
ENERGY STAR LED lighting	20	$75	26,773	1,487	1	5	$23	6,693	372	
CFL Recycling										
Exterior Lighting										
High Efficiency Exterior Lighting	10	$1,000	10,012	2,276						
LED Holiday Lighting	53	$133	49,417	4,118	13	73	$500	68,065	5,672	20
Residential Water Heating (low income included)										
High Efficiency Water Heater	44	$8,625	204,412	13,627	2	32	$15,150	135,797	9,054	2
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0					
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0		$27			
Flow Restrictors - Faucet	96	$805	320,319	35,591	2	64	$728	213,546	23,727	1
Flow Restrictors - Shower	52	$872	329,004	32,900	3	32	$728	202,464	20,246	2
Pipe Insulation	8	$50	14,252	950	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	12	$780	29,304	2,664	1	24	$1,629	58,608	5,328	2
ENERGY STAR Qualified Dishwasher	7	$219	9,060	824	1	20	$628	25,885	2,353	2
ENERGY STAR Qualified Refrigerator	12	$375	18,981	1,265	0	30	$954	47,453	3,164	
ENERGY STAR Qualified Freezer	12	$375	13,387	892	0	7	$224	7,809	521	
Appliance Recycling	44	$3,025	376,846	42,008	7	32	$2,828	275,751	30,911	6
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0		$58			
Additional Low Income										
Energy Efficiency Kits	50	$1,563	508,491	56,499	7	16	$69	162,717	18,080	2
Building Shell - Existing Home Only										
Weatherization Rebates	21	$8,166	672,149	23,665	1	18	$16,214	601,552	20,821	2
Residential Total	**1,164**	**$58,834**	**7,590,890**	**529,279**	**111**	**1,737**	**$76,870**	**7,131,725**	**499,925**	**167**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program						85	$186	46,194	12,832	6
High Efficiency Interior Lighting	4	$40	5,172	808	0	1,168	$10,046	1,161,296	276,388	5
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Commercial Contractor Rebate (GS & AS)										
Agricultural										
Efficient Livestock Waterers						1	$50	9,537	795	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	4	$4,000	264,890	52,978	11					
Ag, Commercial and Industrial Total	**8**	**$4,040**	**270,062**	**53,786**	**11**	**1,254**	**$10,282**	**1,217,027**	**290,015**	**11**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control						8	$400			4
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning						22	$1,100			147
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural							$1,668			
Expert Energy Services - C&I							$5,370			
Energy Audit Services - Residential *	15	$3,000				13	$2,043			
IV. Educational & Research Programs										
Model Housing Education							$244			
Member Information and Education	1,477	$33,000				1,449	$29,041			
Peak Alert	1,477									
Living with Energy in Iowa	1,477	$2,122				1,449	$4,651			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,477	$5,200				1,449	$5,240			
TOTAL	**7,095**	**$106,196**	**7,860,953**	**583,065**	**121**	**7,381**	**$136,909**	**8,348,752**	**789,940**	**329**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Franklin Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$1,438	31,966	2,283	2	4	$3,155	19,239	1,375	2
Geothermal Heat Pump	10	$17,375	2,655,786	132,789	15	6	$6,850	1,593,472	79,674	10
Air Source Heat Pump	16	$10,000	1,885,046	125,670	16	13	$6,800	1,531,600	102,107	15
Heat Recovery Ventilators	2	$313	25,042	1,252						
Residential Contractor Rebates						19	$1,900			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	350	$767	167,327	22,922	21	1,069	$2,032	511,064	70,009	71
Local CFL Rebate Program(s)	345	$1,294	164,937	22,594	21	2,836	$9,570	1,355,826	185,730	189
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	56	$420	48,241	2,942	1	24	$170	23,156	1,412	
ENERGY STAR LED lighting	29	$109	38,821	2,157	1					
CFL Recycling	1	$95				1	$89			
Exterior Lighting										
High Efficiency Exterior Lighting	10	$1,000	10,012	2,276						
LED Holiday Lighting	59	$148	55,012	4,584	15	81	$162	75,524	6,294	22
Residential Water Heating (low income included)										
High Efficiency Water Heater	44	$8,625	204,412	13,627	2	34	$31,781	140,643	9,376	2
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0					
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0	1	$2,985	23,110	1,926	
Flow Restrictors - Faucet	96	$805	320,319	35,591	2	128	$618	427,092	47,455	3
Flow Restrictors - Shower	52	$872	329,004	32,900	3	62	$618	392,274	39,227	3
Pipe Insulation	8	$50	14,252	950	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	14	$910	34,188	3,108	1	27	$1,830	60,232	5,476	2
ENERGY STAR Qualified Dishwasher	9	$281	11,648	1,059	1	15	$508	19,414	1,765	1
ENERGY STAR Qualified Refrigerator	14	$438	22,145	1,476	0	23	$780	36,380	2,425	
ENERGY STAR Qualified Freezer	14	$438	15,618	1,041	0	3	$102	3,347	223	
Appliance Recycling	47	$3,231	395,484	44,147	8	20	$1,817	163,577	18,380	4
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0					
Additional Low Income										
Energy Efficiency Kits	50	$1,563	508,491	56,499	7	26	$650	264,415	29,379	4
Building Shell - Existing Home Only										
Weatherization Rebates	21	$8,166	672,149	23,665	1	27	$26,732	1,022,665	34,859	2
Residential Total	**1,257**	**$60,338**	**7,685,568**	**538,494**	**118**	**4,419**	**$99,149**	**7,663,030**	**637,092**	**330**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program						130	$327	70,649	19,625	9
High Efficiency Interior Lighting	6	$60	7,758	1,212	0	665	$4,633	361,428	55,604	23
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump						10	$3,000	173,604	8,680	1
Commercial Contractor Rebate (GS & AS)						1	$100			
Agricultural										
Efficient Livestock Waterers										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	4	$4,000	264,890	52,978	11					
Ag, Commercial and Industrial Total	**10**	**$4,060**	**272,648**	**54,190**	**11**	**806**	**$8,060**	**605,681**	**83,909**	**33**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control						8	$400			
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning						22	$1,100			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural							$3,233			
Expert Energy Services - C&I							$2,873			
Energy Audit Services - Residential *	18	$3,600				30	$1,110			
IV. Educational & Research Programs										
Model Housing Education							$173			
Member Information and Education	1,477	$33,000				1,448	$29,471			
Peak Alert	1,477									
Living with Energy in Iowa	1,477	$2,122				1,448	$4,327			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,477	$5,200				1,448	$5,790			
TOTAL	**7,193**	**$108,319**	**7,958,216**	**592,685**	**129**	**9,629**	**$155,686**	**8,268,711**	**721,001**	**363**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Franklin Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$1,438	31,966	2,283	2	4	$769	20,870	1,491	2
Geothermal Heat Pump	11	$19,113	2,921,365	146,068	17	5	$7,576	1,327,893	66,395	9
Air Source Heat Pump	17	$10,625	2,002,862	133,524	17	13	$7,407	1,531,600	102,107	15
Heat Recovery Ventilators	2	$313	25,042	1,252		1	$131	12,521	626	
Residential Contractor Rebates						19	$5,801			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	350	$767	167,327	22,922	21	153	$518	73,146	10,020	10
Local CFL Rebate Program(s)	401	$1,504	191,709	26,261	24	101	$180	48,286	6,614	7
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	66	$495	61,712	3,763	1		$6			
ENERGY STAR LED lighting	38	$143	50,869	2,826	2	56	$177	74,965	4,165	2
CFL Recycling										
Exterior Lighting										
High Efficiency Exterior Lighting	10	$1,000	10,012	2,276						
LED Holiday Lighting	65	$163	60,606	5,051	16	71	$143	66,200	5,517	20
Residential Water Heating (low income included)										
High Efficiency Water Heater	44	$8,625	204,412	13,627	2	32	$10,298	142,041	9,469	1
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0					
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0					
Flow Restrictors - Faucet	96	$805	320,319	35,591	2	52	$265	173,506	19,278	1
Flow Restrictors - Shower	52	$872	329,004	32,900	3	32	$326	202,464	20,246	2
Pipe Insulation	8	$50	14,252	950	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	14	$910	34,188	3,108	1	21	$1,088	51,282	4,662	2
ENERGY STAR Qualified Dishwasher	9	$281	11,648	1,059	1	15	$388	19,414	1,765	1
ENERGY STAR Qualified Refrigerator	14	$438	22,145	1,476	0	30	$768	47,453	3,164	0
ENERGY STAR Qualified Freezer	14	$438	15,618	1,041	0	6	$155	6,693	446	0
Appliance Recycling	50	$3,438	414,122	46,286	9	20	$2,072	169,873	19,011	4
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0	1	$1,011	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits	50	$1,563	508,491	56,499	7	40	$1,837	406,793	45,199	6
Building Shell - Existing Home Only										
Weatherization Rebates	21	$8,166	672,149	23,665	1	7	$1,227	211,688	7,056	1
Residential Total	**1,342**	**$63,147**	**8,145,486**	**567,391**	**126**	**679**	**$42,143**	**4,619,988**	**328,341**	**83**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	6	$60	7,758	1,212	0	1,532	$12,370	1,256,362	193,287	68
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Commercial Contractor Rebate (GS & AS)										
Agricultural										
Efficient Livestock Waterers										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	4	$4,000	264,890	52,978	11					
Ag, Commercial and Industrial Total	**10**	**$4,060**	**272,648**	**54,190**	**11**	**1,532**	**$12,370**	**1,256,362**	**193,287**	**68**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control										
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural							$3,204			
Expert Energy Services - C&I							$3,204			
Energy Audit Services - Residential *	21	$4,200					$54			
IV. Educational & Research Programs										
Model Housing Education							$167			
Member Information and Education	1,477	$33,000				1,441	$27,299			
Peak Alert	1,477									
Living with Energy in Iowa	1,477	$2,122				1,441	$4,022			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,477	$5,200				1,441	$6,742			
TOTAL	**7,281**	**$111,728**	**8,418,134**	**621,581**	**137**	**6,534**	**$99,205**	**5,876,351**	**521,628**	**151**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Franklin Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,688	37,591	2,685	3	3	$688	16,876	1,205	1
Geothermal Heat Pump	11	$19,113	2,921,365	146,068	17	11	$17,653	2,921,365	146,068	19
Air Source Heat Pump	17	$10,625	2,002,862	133,524	17	13	$7,443	1,531,600	102,107	15
Heat Recovery Ventilators	2	$313	25,042	1,252						
Residential Contractor Rebates						23	$7,820			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	350	$767	167,327	22,922	21					
Local CFL Rebate Program(s)	457	$1,714	218,481	29,929	27	46	$105	21,992	3,013	3
ENERGY STAR CFL/LED Fixtures						131	$786	287,912	14,396	6
T8 or better Lighting Fixtures	75	$563	62,531	3,813	1	151	$1,038	14,345	875	0
ENERGY STAR LED lighting	46	$173	61,578	3,421	2	15	$170	20,080	1,116	1
CFL Recycling	1	$95								
Exterior Lighting										
High Efficiency Exterior Lighting	10	$1,000	10,012	2,276						
LED Holiday Lighting	70	$175	65,268	5,439	18	57	$114	53,147	4,429	16
Residential Water Heating (low income included)										
High Efficiency Water Heater	44	$8,625	204,412	13,627	2	25	$8,900	109,474	7,298	1
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0					
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0					
Flow Restrictors - Faucet	97	$813	323,656	35,962	2	38	$218	126,793	14,088	1
Flow Restrictors - Shower	52	$872	329,004	32,900	3	20	$229	126,540	12,654	1
Pipe Insulation	8	$50	14,252	950	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	14	$910	34,188	3,108	1	26	$1,490	63,492	5,772	2
ENERGY STAR Qualified Dishwasher	9	$281	11,648	1,059	1	15	$430	19,414	1,765	1
ENERGY STAR Qualified Refrigerator	14	$438	22,145	1,476	0	25	$716	39,544	2,636	0
ENERGY STAR Qualified Freezer	14	$438	15,618	1,041	0	6	$172	6,693	446	0
Appliance Recycling	53	$3,644	432,760	48,425	9	19	$1,907	162,810	18,226	4
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0					
Additional Low Income										
Energy Efficiency Kits	50	$1,563	508,491	56,499	7	30	$860	305,095	33,899	4
Building Shell - Existing Home Only										
Weatherization Rebates	21	$8,166	672,149	23,665	1	21	$3,915	591,441	20,321	2
Residential Total	**1,426**	**$64,026**	**8,216,049**	**575,003**	**132**	**675**	**$54,654**	**6,418,612**	**390,314**	**78**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	8	$80	10,343	1,616	0	7,417	$22,902	9,159,213	1,409,110	302
Exterior Lighting										
High Efficiency Exterior Lighting						24	$480	56,889	11,610	3
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump						32	$9,530	2,340,013	117,001	38
Commercial Contractor Rebate (GS & AS)										
Agricultural										
Efficient Livestock Waterers										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	4	$4,000	264,890	52,978	11					
Ag, Commercial and Industrial Total	**12**	**$4,080**	**275,234**	**54,594**	**11**	**7,473**	**$32,912**	**11,556,115**	**1,537,720**	**343**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control										
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural							$2,272			
Expert Energy Services - C&I							$2,272			
Energy Audit Services - Residential *	24	$4,800								
IV. Educational & Research Programs										
Model Housing Education							$1,065			
Member Information and Education	1,477	$33,000				1,440	$30,397			
Peak Alert	1,477									
Living with Energy in Iowa	1,477	$2,122				1,440	$4,210			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,477	$5,200				1,440	$6,973			
TOTAL	**7,370**	**$113,228**	**8,491,283**	**629,598**	**143**	**12,468**	**$134,755**	**17,974,727**	**1,928,034**	**421**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progra

Grundy County Rural Electric Cooperative

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required to be filed with the Board on or before Jan. 1 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required, and may file a joint report or reports with the Board."

Grundy County REC was formed in 1936, to provide reliable electric service to the rural areas of Grundy, Tama, Marshall, Black Hawk, Butler and Hardin Counties. Grundy County REC is a non-profit cooperative located in the town of Grundy Center, Iowa. The co-op assists its member-consumers in managing their electric needs and works to lower their energy usage by offering a menu of energy efficiency rebates and through the sale of energy star appliances to their member-consumers and non members, from the REC's appliance center.

Grundy County REC is governed by seven board members that are elected by and from the member-consumers served by the Cooperative. The Cooperative provides electric service to 2287 member-consumers. Two of these are large commercial (1000 KVA or more), 315 are small commercial members and 1970 are residential and/or farm members. Grundy County REC's largest commercial member is a natural gas pumping station. The second largest is a business that processes corn cobs to be used for pet products, industrial polishing and fertilizer carriers. These two companies accounted for almost 37% of the Kwh sales in 2010 for Grundy County REC. Both companies run very efficiently and watch their energy usage very closely.

Grundy County REC has been committed to supply side and demand side energy efficiency for many years. Grundy County REC has invested $1,451,836.00 in demand side energy efficiency programs from 1992 through 2007, with an estimated kWH savings of 15,940,217. Going forward, Grundy County REC has a

planned demand side investment of $546,187.00 with a projected kWH saving for all member-consumers of 4,164,500, for 2010 through 2014.

Part of Grundy County REC has energy efficiency portfolio goals are the following:

1. These programs are available to all retail revenue classes of member-consumers.
2. Have Member acceptance and satisfaction of portfolio.
3. Cost effective plans and programs for our member-consumers.
4. We have stable funding over the life of the plan.
5. Flexibility in portfolio to take into account certain unique circumstances of members.
6. Leveraging local jobs within the community for the delivery of
7. Adherence to the cooperative principles and in particular the education and training principle, concern for community and cooperation among cooperative principles.

Other Grundy County REC energy efficiency program goals are offering members rebate or incentive programs for efficient technologies:

1. Participating in educational energy efficiency programs.
2. Participating in research programs related to energy efficiency.
3. Offering member-consumers demand response programs (which one of our large commercial member-consumers is using).
4. Offering member-consumers energy audit & technical support programs.

Grundy County REC offers a variety of energy efficiency programs to help out member-consumers. We offer rebates in these areas; heating and cooling, water heating, appliances, lighting, insulation, infiltration control, and the Touchstone Energy Home Plus. Grundy County REC also offers a Pull the Plug program which is in place to take old freezers, refrigerators, and window A/C's out of commission. This has been a very successful program for Grundy County REC. In 2010 we had 31 member-consumers that took advantage of this program. Grundy County REC also offers Agriculture rebate programs.

Grundy County REC has been working hard with member-consumers for achieving the energy efficiency goals. Grundy County REC has surpassed many of the goals that were set for them. Such as the appliance goals which Grundy County REC had 68 member-consumers took part in this program. Grundy County REC also

works with their member-consumers in education to help them make wise decisions when it comes to energy efficiency. Some of the many ways Grundy Count REC educates their member-consumers are with newsletters, website, bill stuffers, energy audits and emailing.

This filing marks the end of this 5 year plan for Grundy County REC. Grundy County REC has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Grundy County Rural Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	36	$6,189	140,280	27,227	10,020	41	$10,635	166,634	36,594	11,902
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	40	$69,501	10,623,144	1,540,356	531,157	52	$94,217	13,810,087	2,257,419	690,504
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	56	$35,000	6,597,662	1,201,717	439,844	18	$15,573	2,120,677	369,155	141,379
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	10	$1,565	125,208	18,781	6,260	7	$2,767	87,645	13,146	4,382
Residential Contractor Rebates	Incentive for heat pump installs						20	$6,513			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	2,700	$5,914	1,290,808	497,724	176,823	841	$1,903	402,062	244,804	55,078
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	2,232	$8,371	1,067,068	402,960	146,174	8,619	$29,676	4,120,546	2,465,569	564,459
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						52	$312	114,286	5,714	5,714
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	85	$639	85,504	13,940	5,214	211	$2,027	214,771	36,564	13,096
ENERGY STAR LED lighting	Rebate for LED lighting.	180	$676	240,959	31,979	13,387	414	$2,353	554,205	69,462	30,789
CFL Recycling	Recycling of compact florescent light bulbs.							$25			
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)						165	$5,610	812,637	162,527	162,527
LED Holiday Lighting	Rebate for holiday lighting.	171	$428	159,440	36,131	13,287	96	$1,188	89,510	27,042	7,460
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	163	$33,750	787,195	146,164	52,480	176	$96,465	761,454	142,272	50,764
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	5	$1,875	96,293	28,888	9,629		$103			
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	4	$1,500	92,441	19,259	7,703	1	$416	23,110	1,926	1,926
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	4	$1,500	89,777	20,574	7,481		$201			
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	410	$3,435	1,368,031	456,010	152,003	320	$1,958	1,067,732	328,476	118,637
Flow Restrictors - Shower	Incentive for low-flow shower head.	205	$3,435	1,297,035	389,111	129,704	205	$2,349	1,297,035	337,230	129,704
Tank Insulation	Incentive for water heater tank insulation.	55	$345	94,017	28,205	9,402					
Pipe Insulation	Incentive for water pipe insulation.						8	$100	14,252	1,900	950
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	45	$2,925	109,890	28,194	9,990	140	$15,258	341,880	105,450	31,080
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	50	$1,563	64,713	16,472	5,883	74	$5,902	95,775	27,650	8,707
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	108	$7,312	170,829	30,264	11,389	94	$7,349	148,685	30,156	9,912
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	62	$1,565	69,164	15,618	4,611	43	$3,129	47,969	9,966	3,198
Appliance Recycling	Incentives for appliance recycling.	260	$17,880	2,291,889	764,984	254,995	134	$18,621	1,084,962	370,327	122,253
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	5	$6,250	166,500	16,650	5,550	1	$1,351	33,300	2,220	1,110
Advanced Lighting Package											
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	195	$6,094	1,983,115	649,739	220,346	90	$3,233	915,284	344,644	101,698
Weatherization Rebates	Rebates for various insulation measures.							$175			
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	140	$41,010	3,659,154	337,959	130,565	68	$25,377	2,189,564	215,976	74,059
Residential Total		**7,221**	**$258,720**	**32,670,115**	**6,718,905**	**2,353,896**	**11,890**	**$354,786**	**30,514,062**	**7,606,188**	**2,341,287**
Percentage of 5 year plan goal - Residential								**137%**	**93%**		**99%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Grundy County Rural Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	1,200	$2,630	652,147	528,360	181,152	25	$106	13,587	14,492	3,774
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	790	$3,811	713,237	494,033	165,951	1,228	$16,911	1,032,060	239,060	158,778
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)						201	$47,356	1,330,182	120,926	120,926
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	15	$3,750	22,228	4,446	1,482					
Geothermal Heat Pump	Rebate for geothermal heat pump.	5	$8,690	86,802	13,020	4,340					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	10	$6,250	261,738	52,348	17,449					
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	25	$5,000	117,799	23,560	7,853					
Heat Pump Water Heater	Rebate for heat pump water heater.	5	$1,875	115,551	28,888	9,629					
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	50	$1,875	534,465	106,893	35,631					
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	50	$1,875	18,644,670	3,728,934	1,242,978	1	$725	372,893	24,860	24,860
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	5	$3,125	735,514	147,103	49,034					
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	25	$1,070	143,257	35,814	11,938					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	25	$1,115	77,789	19,447	6,482					
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	10	$375	553,613	110,723	36,908	1	$198	55,361	18,454	3,691
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	10	$625	95,371	23,843	7,948					
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	100	$375	67,044	50,283	16,761					
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	25	$750	50,228	15,068	5,023					
Hog Farrowing - Double Crate Heating Pads(<=170W)	Rebate for double crate heating pads.	25	$1,575	100,455	30,137	10,046					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program							1	$1,200	646,087	129,217	129,217
Ag, Commercial and Industrial Total		**2,375**	**$44,766**	**22,971,906**	**5,412,898**	**1,810,604**	**1,457**	**$66,496**	**3,450,170**	**547,008**	**441,246**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**149%**	**15%**		**24%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.							$45,377			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	47	$16,920					$9,517			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	27	$9,720					$21,401			
Energy Audit Services - Residential *	Energy Audit Services - Residential	70	$20,160				21	$4,219			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.							$2,428			
Domestic Water Heater Enhancement	Domestic Water Heater Enhancement										
Member Information and Education	Member Information and Education	8,955	$117,148				8,812	$51,599			
Peak Alert	Peak Alert	9,540						$343			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	9,450	$44,927				8,812	$27,996			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	8,955	$33,826				8,812	$31,333			
TOTAL		**46,640**	**$546,187**	**55,642,021**	**12,131,804**	**4,164,500**	**39,804**	**$615,495**	**33,964,232**	**8,153,196**	**2,782,532**
Percentage of 5 year plan goal achieved								**113%**	**61%**		**67%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Grundy County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	5	$875	19,829	1,416	2	9	2,894	36,410	2,601	3
Geothermal Heat Pump	7	$12,163	1,859,050	92,953	11	9	$15,036	2,390,207	119,510	15
Air Source Heat Pump	7	$4,375	824,708	54,981	7	1	$2,935	117,815	7,854	1
Heat Recovery Ventilators	2	$313	25,042	1,252		1	$1,447	12,521	626	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	450	$986	215,135	29,471	27	476	$505	227,565	31,173	32
Local CFL Rebate Program(s)	368	$1,380	175,932	24,100	22	4,307	$13,890	2,059,078	282,065	287
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	10	$76	9,594	585	0	18	$141	12,452	759	0
ENERGY STAR LED lighting	14	$53	18,741	1,041	1	2	$57	2,677	149	0
CFL Recycling										
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	21	$53	19,580	1,632	5	37	$384	34,499	2,875	10
Residential Water Heating (low income included)										
High Efficiency Water Heater	31	$5,750	138,578	9,239	1	27	$17,143	135,131	9,009	1
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0		$2			
Heat Pump Water Heater - (Integrated)							$2			
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0					
Flow Restrictors - Faucet	82	$687	273,606	30,401	2	54	$279	180,180	20,020	1
Flow Restrictors - Shower	41	$687	259,407	25,941	2	27	$279	170,829	17,083	1
Tank Insulation	11	$69	18,803	1,880	0					
Pipe Insulation										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	7	$455	17,094	1,554	1	31	$4,847	75,702	6,882	3
ENERGY STAR Qualified Dishwasher	8	$250	10,354	941	1	14	$1,830	18,120	1,647	1
ENERGY STAR Qualified Refrigerator	14	$4,375	22,145	1,476	0	16	$2,201	25,308	1,687	0
ENERGY STAR Qualified Freezer	22	$313	24,542	1,636	0	7	$807	7,809	521	0
Appliance Recycling	52	$3,576	458,378	50,999	9	31	$5,899	185,791	21,528	7
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0		$2			
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits	35	$1,094	355,944	39,549	5	50	$1,759	508,491	56,499	7
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	15	$4,484	406,632	14,476	1	7	$3,177	211,688	7,056	1
Residential Total	**1,205**	**$44,012**	**5,228,096**	**390,428**	**96**	**5,124**	**$75,516**	**6,412,272**	**589,545**	**372**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Grundy County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	200	$438	108,691	30,192	12					
High Efficiency Interior Lighting	150	$731	138,676	31,663	1					
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$750	4,446	296	0					
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,250	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$1,000	23,560	1,571	0					
Heat Pump Water Heater	1	$375	23,110	1,926	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	10	$375	106,893	7,126	1					
Variable Speed Drive Motor Incentive	10	$375	3,728,934	248,596	22					
Agricultural										
Dairy Pre-coolers Incentive	1	$625	147,103	9,807	5					
Livestock Ventilation Fans	5	$214	28,651	2,388	1					
Circulating Fans --- BESS Lab Ratings	5	$223	15,558	1,296	0					
Scroll compressor (milk cooling)	2	$75	110,723	7,382	1	1	$198	55,361	3,691	0
Efficient Livestock Waterers	2	$125	19,074	1,590						
Hog Farrowing - Heat Lamps (<= 175W)	20	$75	13,409	3,352						
Hog Farrowing - Single Crate Heating Pads (<=85W)	5	$150	10,046	1,005						
Hog Farrowing - Double Crate Heating Pads(<=170W)	5	$315	20,091	2,009						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**427**	**$8,834**	**4,568,672**	**354,555**	**43**	**1**	**$198**	**55,361**	**3,691**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	8	$2,880								
Expert Energy Services - C&I	4	$1,440					$5,630			
Energy Audit Services - Residential *	10	$2,880				4	$726			
IV. Educational & Research Programs										
Model Housing Education							$501			
Domestic Water Heater Enhancement										
Member Information and Education	1,791	$22,443				1,778	$24,295			
Peak Alert	1,890									
Living with Energy in Iowa	1,890	$8,633				1,778	$5,950			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,791	$6,500				1,778	$5,996			
TOTAL	**9,016**	**$97,622**	**9,796,768**	**744,983**	**139**	**10,463**	**$118,812**	**6,467,633**	**593,236**	**373**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Grundy County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$1,188	26,931	1,924	2	7	$1,843	31,965	2,283	2
Geothermal Heat Pump	8	$13,900	2,124,629	106,231	12	16	$27,281	4,249,258	212,463	27
Air Source Heat Pump	10	$6,250	1,178,154	78,544	10	3	$3,182	353,446	23,563	3
Heat Recovery Ventilators	2	$313	25,042	1,252		1	$213	12,521	626	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	500	$1,095	239,039	32,745	30	277	$890	132,427	18,141	18
Local CFL Rebate Program(s)	362	$1,358	173,064	23,707	22	3,797	$14,137	1,815,258	248,666	253
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	15	$113	14,418	879	0	3	$129	2,075	127	
ENERGY STAR LED lighting	25	$94	33,467	1,859	1	8	$87	10,709	595	
CFL Recycling										
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	30	$75	27,972	2,331	8	21	$521	19,580	1,632	6
Residential Water Heating (low income included)										
High Efficiency Water Heater	27	$5,500	128,888	8,593	1	24	$17,054	97,685	6,512	1
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0					
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0		$11			
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	82	$687	273,606	30,401	2	48	$426	160,160	17,796	1
Flow Restrictors - Shower	41	$687	259,407	25,941	2	24	$366	151,848	15,185	1
Tank Insulation	11	$69	18,803	1,880	0					
Pipe Insulation										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	8	$520	19,536	1,776	1	41	$5,827	100,122	9,102	4
ENERGY STAR Qualified Dishwasher	9	$281	11,648	1,059	1	20	$2,298	25,885	2,353	2
ENERGY STAR Qualified Refrigerator	18	$562	28,472	1,898	0	23	$2,923	36,380	2,425	
ENERGY STAR Qualified Freezer	10	$313	11,156	744	0	10	$961	11,156	744	
Appliance Recycling	52	$3,576	458,378	50,999	9	29	$4,382	240,773	27,093	6
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0		$60			
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits	40	$1,250	406,793	45,199	5		$70			
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	22	$6,472	581,646	20,776	2	14	$5,822	591,163	19,870	
Residential Total	**1,282**	**$46,303**	**6,116,714**	**443,699**	**108**	**4,366**	**$88,483**	**8,042,411**	**609,176**	**324**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Grundy County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	250	$548	135,864	37,740	15	21	$100	11,413	3,170	1
High Efficiency Interior Lighting	160	$770	143,640	33,572	1					
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$750	4,446	296	0					
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,250	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$1,000	23,560	1,571	0					
Heat Pump Water Heater	1	$375	23,110	1,926	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	10	$375	106,893	7,126	1					
Variable Speed Drive Motor Incentive	10	$375	3,728,934	248,596	22					
Agricultural										
Dairy Pre-coolers Incentive	1	$625	147,103	9,807	5					
Livestock Ventilation Fans	5	$214	28,651	2,388	1					
Circulating Fans --- BESS Lab Ratings	5	$223	15,558	1,296	0					
Scroll compressor (milk cooling)	2	$75	110,723	7,382	1					
Efficient Livestock Waterers	2	$125	19,074	1,590						
Hog Farrowing - Heat Lamps (<= 175W)	20	$75	13,409	3,352						
Hog Farrowing - Single Crate Heating Pads (<=85W)	5	$150	10,046	1,005						
Hog Farrowing - Double Crate Heating Pads(<=170W)	5	$315	20,091	2,009						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**487**	**$8,983**	**4,600,808**	**364,012**	**46**	**21**	**$100**	**11,413**	**3,170**	**1**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	9	$3,240								
Expert Energy Services - C&I	5	$1,800					$6,254			
Energy Audit Services - Residential *	12	$3,456				5	$1,205			
IV. Educational & Research Programs										
Model Housing Education							$284			
Domestic Water Heater Enhancement										
Member Information and Education	1,791	$22,925				1,776	$6,509			
Peak Alert	1,890									
Living with Energy in Iowa	1,890	$8,806				1,776	$5,873			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,791	$6,630				1,776	$5,748			
TOTAL	**9,157**	**$102,143**	**10,717,523**	**807,711**	**154**	**9,720**	**$114,456**	**8,053,824**	**612,346**	**325**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Grundy County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$1,188	26,931	1,924	2	9	2,192	39,067	2,790	3
Geothermal Heat Pump	8	$13,900	2,124,629	106,231	12	14	$22,700	3,718,100	185,905	24
Air Source Heat Pump	13	$8,125	1,531,600	102,107	13	5	$3,299	589,077	39,272	6
Heat Recovery Ventilators	2	$313	25,042	1,252		3	$446	37,562	1,878	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	500	$1,095	239,039	32,745	30	81	$343	38,724	5,305	5
Local CFL Rebate Program(s)	431	$1,616	206,051	28,226	26	137	$462	65,497	8,972	9
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	20	$150	20,498	1,250	0	142	$1,128	164,419	10,025	3
ENERGY STAR LED lighting	36	$135	48,192	2,677	1	197	$945	263,716	14,651	9
CFL Recycling							$25			
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	40	$100	37,296	3,108	10	8	$22	7,459	622	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	30	$6,250	145,521	9,701	1	39	$20,710	174,609	11,641	2
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0					
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0					
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0					
Flow Restrictors - Faucet	82	$687	273,606	30,401	2	60	$303	200,200	22,244	1
Flow Restrictors - Shower	41	$687	259,407	25,941	2	30	$303	189,810	18,981	2
Tank Insulation	11	$69	18,803	1,880	0					
Pipe Insulation										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	10	$650	24,420	2,220	1	33	$2,062	80,586	7,326	3
ENERGY STAR Qualified Dishwasher	10	$313	12,943	1,177	1	15	$527	19,414	1,765	1
ENERGY STAR Qualified Refrigerator	22	$688	34,799	2,320	0	21	$709	33,217	2,214	
ENERGY STAR Qualified Freezer	10	$313	11,156	744	0	9	$352	10,040	669	
Appliance Recycling	52	$3,576	458,378	50,999	9	25	$2,619	210,130	23,552	5
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0		$3			
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits	40	$1,250	406,793	45,199	5		$3			
Weatherization Rebates							$175			
Building Shell - Existing Home Only										
Weatherization Rebates	29	$8,907	790,536	28,042	2	21	$6,606	631,852	21,516	1
Residential Total	**1,398**	**$52,387**	**6,793,751**	**484,976**	**120**	**849**	**$65,934**	**6,473,479**	**379,328**	**76**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Grundy County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	250	$548	135,864	37,740	15	4	$6	2,174	604	
High Efficiency Interior Lighting	160	$770	143,640	33,572	1	222	$1,222	82,460	12,686	7
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$750	4,446	296	0					
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,250	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$1,000	23,560	1,571	0					
Heat Pump Water Heater	1	$375	23,110	1,926	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	10	$375	106,893	7,126	1					
Variable Speed Drive Motor Incentive	10	$375	3,728,934	248,596	22					
Agricultural										
Dairy Pre-coolers Incentive	1	$625	147,103	9,807	5					
Livestock Ventilation Fans	5	$214	28,651	2,388	1					
Circulating Fans --- BESS Lab Ratings	5	$223	15,558	1,296	0					
Scroll compressor (milk cooling)	2	$75	110,723	7,382	1					
Efficient Livestock Waterers	2	$125	19,074	1,590						
Hog Farrowing - Heat Lamps (<= 175W)	20	$75	13,409	3,352						
Hog Farrowing - Single Crate Heating Pads (<=85W)	5	$150	10,046	1,005						
Hog Farrowing - Double Crate Heating Pads(<=170W)	5	$315	20,091	2,009						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**487**	**$8,983**	**4,600,808**	**364,012**	**46**	**226**	**$1,228**	**84,634**	**13,290**	**7**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control							$401			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	9	$3,240					$3,448			
Expert Energy Services - C&I	5	$1,800					$3,448			
Energy Audit Services - Residential *	14	$4,032				9	$1,857			
IV. Educational & Research Programs										
Model Housing Education							$181			
Domestic Water Heater Enhancement										
Member Information and Education	1,791	$23,419				1,761	$7,630			
Peak Alert	1,890									
Living with Energy in Iowa	1,890	$8,982				1,761	$5,544			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,791	$6,762				1,761	$5,968			
TOTAL	**9,275**	**$109,605**	**11,394,559**	**848,988**	**165**	**6,367**	**$95,639**	**6,558,113**	**392,618**	**83**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Grundy County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$1,188	26,931	1,924	2	7	$1,663	26,045	1,860	2
Geothermal Heat Pump	8	$13,900	2,124,629	106,231	12	6	$10,973	1,593,472	79,674	10
Air Source Heat Pump	13	$8,125	1,531,600	102,107	13	6	$3,104	706,892	47,126	7
Heat Recovery Ventilators	2	$313	25,042	1,252		1	$336	12,521	626	
Residential Contractor Rebates						11	$3,403			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	600	$1,314	286,846	39,294	36		$150			
Local CFL Rebate Program(s)	501	$1,879	239,517	32,810	30	136	$702	65,018	8,907	9
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	20	$150	20,498	1,250	0		$106			
ENERGY STAR LED lighting	47	$176	62,917	3,495	2	94	$738	125,834	6,991	4
CFL Recycling										
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	40	$100	37,296	3,108	10	25	$251	23,310	1,943	7
Residential Water Heating (low income included)										
High Efficiency Water Heater	35	$7,500	173,243	11,550	2	47	$15,469	189,827	12,655	2
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0		$1			
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0		$3			
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0		$1			
Flow Restrictors - Faucet	82	$687	273,606	30,401	2	86	$535	286,953	31,884	2
Flow Restrictors - Shower	41	$687	259,407	25,941	2	88	$986	556,776	55,678	5
Tank Insulation	11	$69	18,803	1,880	0					
Pipe Insulation						8	$100	14,252	950	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	10	$650	24,420	2,220	1	22	$1,695	53,724	4,884	2
ENERGY STAR Qualified Dishwasher	11	$344	14,237	1,294	1	15	$879	19,414	1,765	1
ENERGY STAR Qualified Refrigerator	25	$781	39,544	2,636	0	17	$946	26,890	1,793	0
ENERGY STAR Qualified Freezer	10	$313	11,156	744	0	15	$871	16,733	1,116	0
Appliance Recycling	52	$3,576	458,378	50,999	9	33	$3,930	300,349	33,576	7
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0	1	$1,286	33,300	1,110	0
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits	40	$1,250	406,793	45,199	5	15	$681	152,547	16,950	2
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	34	$9,694	868,076	31,081	3	15	$4,745	326,956	11,050	2
Residential Total	**1,593**	**$55,071**	**7,001,050**	**502,248**	**131**	**648**	**$53,554**	**4,530,814**	**320,536**	**63**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Grundy County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	250	$548	135,864	37,740	15					
High Efficiency Interior Lighting	160	$770	143,640	33,572	1	798	$5,335	356,912	54,909	29
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$750	4,446	296	0					
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,250	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$1,000	23,560	1,571	0					
Heat Pump Water Heater	1	$375	23,110	1,926	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	10	$375	106,893	7,126	1					
Variable Speed Drive Motor Incentive	10	$375	3,728,934	248,596	22					
Agricultural										
Dairy Pre-coolers Incentive	1	$625	147,103	9,807	5					
Livestock Ventilation Fans	5	$214	28,651	2,388	1					
Circulating Fans --- BESS Lab Ratings	5	$223	15,558	1,296	0					
Scroll compressor (milk cooling)	2	$75	110,723	7,382	1					
Efficient Livestock Waterers	2	$125	19,074	1,590						
Hog Farrowing - Heat Lamps (<= 175W)	20	$75	13,409	3,352						
Hog Farrowing - Single Crate Heating Pads (<=85W)	5	$150	10,046	1,005						
Hog Farrowing - Double Crate Heating Pads(<=170W)	5	$315	20,091	2,009						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**487**	**$8,983**	**4,600,808**	**364,012**	**46**	**798**	**$5,335**	**356,912**	**54,909**	**29**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$3,600					$3,845			
Expert Energy Services - C&I	6	$2,160					$3,845			
Energy Audit Services - Residential *	16	$4,608				3	$431			
IV. Educational & Research Programs										
Model Housing Education							$474			
Domestic Water Heater Enhancement										
Member Information and Education	1,791	$23,923				1,750	$6,560			
Peak Alert	1,980									
Living with Energy in Iowa	1,890	$9,161				1,750	$5,200			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,791	$6,898				1,750	$6,667			
TOTAL	**9,564**	**$114,404**	**11,601,858**	**866,261**	**177**	**6,699**	**$85,911**	**4,887,725**	**375,445**	**92**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Grundy County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	10	$1,750	39,658	2,833	3	9	$2,043	33,147	2,368	3
Geothermal Heat Pump	9	$15,638	2,390,207	119,510	14	7	$18,227	1,859,050	92,953	12
Air Source Heat Pump	13	$8,125	1,531,600	102,107	13	3	$3,053	353,446	23,563	3
Heat Recovery Ventilators	2	$313	25,042	1,252		1	$325	12,521	626	
Residential Contractor Rebates						9	$3,110			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	650	$1,424	310,750	42,569	39	7	$15	3,347	458	0
Local CFL Rebate Program(s)	570	$2,138	272,504	37,329	34	242	$485	115,695	15,849	16
ENERGY STAR CFL/LED Fixtures						52	$312	114,286	5,714	2
T8 or better Lighting Fixtures	20	$150	20,498	1,250	0	48	$523	35,825	2,184	1
ENERGY STAR LED lighting	58	$218	77,642	4,313	2	113	$526	151,269	8,404	5
CFL Recycling										
Exterior Lighting										
High Efficiency Exterior Lighting						165	$5,610	812,637	162,527	
LED Holiday Lighting	40	$100	37,296	3,108	10	5	$10	4,662	389	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	40	$8,750	200,966	13,398	2	39	$26,089	164,202	10,947	2
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0		$100			
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0	1	$400	23,110	1,926	0
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0		$200			
Flow Restrictors - Faucet	82	$687	273,606	30,401	2	72	$415	240,240	26,693	2
Flow Restrictors - Shower	41	$687	259,407	25,941	2	36	$415	227,772	22,777	2
Tank Insulation	11	$69	18,803	1,880	0					
Pipe Insulation										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	10	$650	24,420	2,220	1	13	$827	31,746	2,886	1
ENERGY STAR Qualified Dishwasher	12	$375	15,531	1,412	1	10	$368	12,943	1,177	1
ENERGY STAR Qualified Refrigerator	29	$906	45,871	3,058	0	17	$570	26,890	1,793	0
ENERGY STAR Qualified Freezer	10	$313	11,156	744	0	2	$138	2,231	149	0
Appliance Recycling	52	$3,576	458,378	50,999	9	16	$1,791	147,919	16,503	3
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0					
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits	40	$1,250	406,793	45,199	5	25	$720	254,246	28,250	4
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	40	$11,453	1,012,265	36,190	3	11	$5,027	427,905	14,567	1
Residential Total	**1,743**	**$60,947**	**7,530,505**	**532,545**	**142**	**903**	**$71,299**	**5,055,086**	**442,701**	**60**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Grundy County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	250	$548	135,864	37,740	15					
High Efficiency Interior Lighting	160	$770	143,640	33,572	1	208	$10,354	592,688	91,183	43
Exterior Lighting										
High Efficiency Exterior Lighting						201	$47,356	1,330,182	120,926	
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$750	4,446	296	0					
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,250	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$1,000	23,560	1,571	0					
Heat Pump Water Heater	1	$375	23,110	1,926	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	10	$375	106,893	7,126	1					
Variable Speed Drive Motor Incentive	10	$375	3,728,934	248,596	22	1	$725	372,893	24,860	2
Agricultural										
Dairy Pre-coolers Incentive	1	$625	147,103	9,807	5					
Livestock Ventilation Fans	5	$214	28,651	2,388	1					
Circulating Fans --- BESS Lab Ratings	5	$223	15,558	1,296	0					
Scroll compressor (milk cooling)	2	$75	110,723	7,382	1					
Efficient Livestock Waterers	2	$125	19,074	1,590						
Hog Farrowing - Heat Lamps (<= 175W)	20	$75	13,409	3,352						
Hog Farrowing - Single Crate Heating Pads (<=85W)	5	$150	10,046	1,005						
Hog Farrowing - Double Crate Heating Pads(<=170W)	5	$315	20,091	2,009						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program						1	$1,200	646,087	129,217	15
Ag, Commercial and Industrial Total	**487**	**$8,983**	**4,600,808**	**364,012**	**46**	**411**	**$59,635**	**2,941,850**	**366,185**	**60**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control							$44,976			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	11	$3,960					$2,224			
Expert Energy Services - C&I	7	$2,520					$2,224			
Energy Audit Services - Residential *	18	$5,184								
IV. Educational & Research Programs										
Model Housing Education							$988			
Domestic Water Heater Enhancement										
Member Information and Education	1,791	$24,438				1,747	$6,605			
Peak Alert	1,890						$343			
Living with Energy in Iowa	1,890	$9,345				1,747	$5,429			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,791	$7,036				1,747	$6,954			
TOTAL	**9,628**	**$122,413**	**12,131,313**	**896,557**	**188**	**6,555**	**$200,677**	**7,996,936**	**808,887**	**120**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Grundy Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Grundy Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Grundy Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Grundy Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Grundy Electric Cooperative.

Grundy Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Grundy Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment,

water heaters and appliances. Grundy Electric Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. At this time, GEC does not have any large industrial member-consumer located in Iowa. However, should the need arise, the Cooperative would offer a custom rebate program to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. This would allow us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Grundy Electric Cooperative also offers energy audits for all member-consumers.

In addition to the rebate opportunities, Grundy Electric Cooperative offers two demand response programs that help us to be both environmentally and fiscally responsible. These programs are water heater load control and air conditioning load control. We currently have the following program in place:

- **Air Conditioner Program:** GEC pays a yearly incentive to the member for allowing the Cooperative to control their air conditioner during the hottest days in June, July, and August. This is a voluntary program.
- **Water Heater Fitness Program:** Member allows GEC to control their water heater for a 4-hour maximum during the hottest days in summer, as well as the coldest days in winter. By participating in this program, the Cooperative will repair the members' water heater for no service call and any parts are sold to them at cost. This is a voluntary program.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Grundy Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Grundy Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Grundy Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, on our Facebook page, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to "get the facts" and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Grundy Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Grundy Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Grundy Electric Cooperative. Grundy Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Grundy Electric Cooperative, Inc.	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Lighting (low income included)											
Interior Lighting											
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	50	$1,273	23,904	9,824	3,275	132	$795	63,106	27,506	8,645
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	5	$367	7,493	1,499	500	4	$200	13,853	1,385	924
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	5	$295	16,683	5,561	1,854					
Flow Restrictors - Shower	Incentive for low-flow shower head.	5	$684	31,635	9,491	3,164					
Tank Insulation	Incentive for water heater tank insulation.	5	$383	8,547	2,564	855					
Pipe Insulation	Incentive for water pipe insulation.	5	$154	8,908	1,782	594					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	25	$3,452	61,050	16,650	5,550					
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	15	$1,053	19,414	5,295	1,765	1	$63	1,294	472	118
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.						3	$300	30,509	5,650	3,390
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	15	$11,298	665,584	68,831	22,944	2	$977	37,335	2,050	1,560
Residential Total		**130**	**$18,959**	**843,217**	**121,495**	**40,498**	**142**	**$2,335**	**146,097**	**37,063**	**14,636**
Percentage of 5 year plan goal - Residential								**12%**	**17%**		**36%**

II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.						130	$1,580			
Air Conditioning Load Control	Load control for air conditioning						21	$436			
III. Energy Audit & Technical Support Programs											
Energy Audit Services - Residential *	Energy Audit Services - Residential	5	$500				9	$1,950			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education										
Peak Alert	Peak Alert						225	$250			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						1,233	$1,973			
TOTAL		**135**	**$19,459**	**843,217**	**121,495**	**40,498**	**1,760**	**$8,524**	**146,097**	**37,063**	**14,636**
Percentage of 5 year plan goal achieved								**44%**	**17%**		**36%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Grundy Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	10	$255	4,781	655	1	60	$720	28,685	3,929	4
Residential Water Heating (low income included)										
High Efficiency Water Heater	1	$73	1,499	100	0					
Flow Restrictors - Faucet	1	$59	3,337	371	0					
Flow Restrictors - Shower	1	$137	6,327	633	0					
Tank Insulation	1	$77	1,709	171	0					
Pipe Insulation	1	$31	1,782	119	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$690	12,210	1,110	0					
ENERGY STAR Qualified Dishwasher	3	$211	3,883	353	0					
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	3	$2,260	133,117	4,589	0					
Residential Total	**26**	**$3,792**	**168,643**	**8,100**	**2**	**60**	**$720**	**28,685**	**3,929**	**4**
Percentage of 5 year plan goal - Residential										
II. Demand Response Programs										
Water Heater Load Control						30	$1,580			17
Air Conditioning Load Control						5	$340			4
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	1	$100								
IV. Educational & Research Programs										
Member Information and Education										
Peak Alert						225	$250			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						225	$400			
TOTAL	**27**	**$3,892**	**168,643**	**8,100**	**2**	**545**	**$3,290**	**28,685**	**3,929**	**25**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Grundy Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	10	$255	4,781	655	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	1	$73	1,499	100	0					
Flow Restrictors - Faucet	1	$59	3,337	371	0					
Flow Restrictors - Shower	1	$137	6,327	633	0					
Tank Insulation	1	$77	1,709	171	0					
Pipe Insulation	1	$31	1,782	119	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$690	12,210	1,110	0					
ENERGY STAR Qualified Dishwasher	3	$211	3,883	353	0	1	$63	1,294	118	
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	3	$2,260	133,117	4,589	0					
Residential Total	**26**	**$3,792**	**168,643**	**8,100**	**2**	**1**	**$63**	**1,294**	**118**	**0**
Percentage of 5 year plan goal - Residential										
II. Demand Response Programs										
Water Heater Load Control						50				
Air Conditioning Load Control						8	$48			
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	1	$100				3	$750			
IV. Educational & Research Programs										
Member Information and Education										
Peak Alert										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						261	$389			
TOTAL	**27**	**$3,892**	**168,643**	**8,100**	**2**	**323**	**$1,250**	**1,294**	**118**	**0**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Grundy Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	10	$255	4,781	655	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	1	$73	1,499	100	0					
Flow Restrictors - Faucet	1	$59	3,337	371	0					
Flow Restrictors - Shower	1	$137	6,327	633	0					
Tank Insulation	1	$77	1,709	171	0					
Pipe Insulation	1	$31	1,782	119	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$690	12,210	1,110	0					
ENERGY STAR Qualified Dishwasher	3	$211	3,883	353	0					
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	3	$2,260	133,117	4,589	0					
Residential Total	**26**	**$3,792**	**168,643**	**8,100**	**2**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Residential										
II. Demand Response Programs										
Water Heater Load Control						50				28
Air Conditioning Load Control						8	$48			6
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	1	$100				3	$750			
IV. Educational & Research Programs										
Member Information and Education										
Peak Alert										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						257	$361			
TOTAL	**27**	**$3,892**	**168,643**	**8,100**	**2**	**318**	**$1,159**	**0**	**0**	**34**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Grundy Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	10	$255	4,781	655	1	48	$50	22,948	3,144	3
Residential Water Heating (low income included)										
High Efficiency Water Heater	1	$73	1,499	100	0	2	$100	6,926	462	0
Flow Restrictors - Faucet	1	$59	3,337	371	0					
Flow Restrictors - Shower	1	$137	6,327	633	0					
Tank Insulation	1	$77	1,709	171	0					
Pipe Insulation	1	$31	1,782	119	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$690	12,210	1,110	0					
ENERGY STAR Qualified Dishwasher	3	$211	3,883	353	0					
Additional Low Income										
Energy Efficiency Kits						2	$200	20,340	2,260	0
Building Shell - Existing Home Only										
Weatherization Rebates	3	$2,260	133,117	4,589	0	1	$500	9,812	491	0
Residential Total	**26**	**$3,792**	**168,643**	**8,100**	**2**	**53**	**$850**	**60,026**	**6,356**	**4**
Percentage of 5 year plan goal - Residential										

II. Demand Response Programs										
Water Heater Load Control										
Air Conditioning Load Control										
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	1	$100				2	$300			
IV. Educational & Research Programs										
Member Information and Education										
Peak Alert										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						250	$428			
TOTAL	**27**	**$3,892**	**168,643**	**8,100**	**2**	**305**	**$1,578**	**60,026**	**6,356**	**4**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Grundy Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	10	$255	4,781	655	1	24	$25	11,474	1,572	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	1	$73	1,499	100	0	2	$100	6,926	462	0
Flow Restrictors - Faucet	1	$59	3,337	371	0					
Flow Restrictors - Shower	1	$137	6,327	633	0					
Tank Insulation	1	$77	1,709	171	0					
Pipe Insulation	1	$31	1,782	119	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$690	12,210	1,110	0					
ENERGY STAR Qualified Dishwasher	3	$211	3,883	353	0					
Additional Low Income										
Energy Efficiency Kits						1	$100	10,170	1,130	0
Building Shell - Existing Home Only										
Weatherization Rebates	3	$2,260	133,117	4,589	0	1	$477	27,522	1,069	0
Residential Total	**26**	**$3,792**	**168,643**	**8,100**	**2**	**28**	**$702**	**56,093**	**4,232**	**2**
Percentage of 5 year plan goal - Residential										

II. Demand Response Programs										
Water Heater Load Control										
Air Conditioning Load Control										
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	1	$100				1	$150			
IV. Educational & Research Programs										
Member Information and Education										
Peak Alert										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						240	$395			
TOTAL	**27**	**$3,892**	**168,643**	**8,100**	**2**	**269**	**$1,247**	**56,093**	**4,232**	**2**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

Guthrie County REC
A Touchstone Energy® Cooperative

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required ... and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Guthrie County Rural Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Guthrie County Rural Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost- effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant. Guthrie County Rural Electric Cooperative developed a cost- effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Guthrie County Rural Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Guthrie County Rural Electric Cooperative.

Guthrie County Rural Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service.

Guthrie County Rural Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Guthrie County Rural Electric Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Guthrie County Rural Electric Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, which there is only three, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Guthrie County Rural Electric Cooperative is dedicated to the education of our member- consumers to help them make wise decisions when it comes to energy efficiency. Guthrie County Rural Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Guthrie County Rural Electric Cooperative consistently shares the energy efficiency message on our website, and through Farm Safety Day with our local schools. Through our education efforts, we encourage all our members to "get the facts" and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment- the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Guthrie County Rural Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Guthrie County Rural Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member- consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent

third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Guthrie County Rural Electric Cooperative. Guthrie County Rural Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Guthrie County Rural Electric Cooperative Association	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	100	$16,235	487,569	104,479	34,826	73	$10,699	343,289	81,188	24,521
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	5	$162	4,414	1,471	490	11	$362	9,711	3,431	1,079
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	156	$318,759	41,135,398	5,814,330	2,056,770	101	$167,309	26,632,533	4,298,122	1,331,627
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	172	$152,982	20,120,026	3,829,044	1,341,335	93	$84,369	10,265,202	2,363,700	684,347
Heat Recovery Ventilators	Rebate for heat recovery ventilators.						6	$943	74,590	6,218	3,730
Residential Contractor Rebates	Incentive for heat pump installs	121	$24,200				124	$29,809			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	1,993	$5,181	946,026	403,408	129,593	33,030	$65,002	14,210,439	4,538,894	1,946,636
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	4,628	$12,031	2,196,793	936,474	300,931	345	$1,061	163,763	82,322	22,434
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						10	$160	21,822	1,309	1,091
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.						140	$2,725	161,369	12,246	9,839
ENERGY STAR LED lighting	Rebate for LED lighting.						293	$5,402	389,436	31,530	21,635
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	5	$97	14,978	2,496	832	4	$75	11,982	1,998	666
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	308	$11,997	306,181	205,371	69,587	421	$15,217	488,925	328,701	111,119
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	285	$41,878	1,134,970	224,702	75,665	151	$21,577	601,879	118,861	40,125
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.						1	$634	22,946	7,648	1,912
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	812	$31,597	2,690,085	835,590	298,898					
Flow Restrictors - Shower	Incentive for low-flow shower head.	812	$52,662	5,100,960	1,426,007	510,096					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	135	$8,410	327,324	89,270	29,757	223	$15,886	540,738	151,044	49,159
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	75	$2,435	96,379	26,285	8,762	100	$3,264	128,505	32,595	11,683
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	100	$3,247	157,049	31,410	10,470	229	$7,590	359,642	72,766	23,976
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	25	$812	70,424	17,606	5,869	18	$573	50,706	8,921	4,226
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	50	$1,624	55,381	11,076	3,692	47	$1,556	52,058	11,003	3,471
Appliance Recycling	Incentives for appliance recycling.	50	$3,824	536,612	178,871	59,624	44	$4,205	397,570	105,148	44,174
Efficient Television	Rebate for efficient television.	32	$1,661	63,481	15,044	5,290	47	$2,363	93,238	13,391	7,770
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	10	$6,494	330,630	33,063	11,021	4	$2,135	132,252	5,511	4,408
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	58	$2,646	587,953	233,154	65,328					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	284	$108,295	6,466,969	630,467	221,191	28	$16,938	965,538	44,541	32,185
Residential Total		**10,216**	**$807,228**	**82,829,600**	**15,049,619**	**5,240,026**	**35,543**	**$459,855**	**56,118,132**	**12,321,089**	**4,381,812**
Percentage of 5 year plan goal - Residential								**57%**	**68%**		**84%**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	336	$873	181,302	157,080	50,362	1,710	$3,419	763,497	446,034	212,082
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	2,323	$40,345	2,764,028	1,517,455	535,054	756	$32,509	2,147,361	785,662	335,525
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	5	$195	5,535	3,389	1,130					
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	15	$487	22,070	4,414	1,471					
Geothermal Heat Pump	Rebate for geothermal heat pump.	245	$57,118	10,433,360	2,523,170	521,668	225	$42,454	9,581,657	2,395,414	479,083
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	20	$5,195	466,519	93,304	31,101	6	$1,125	132,958	26,592	8,864
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	265	$4,710								
Ag/Commercial & Industrial Motors											
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	5	$7,793	1,851,197	370,239	123,413					
Agricultural											
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	3	$97	8,133	1,356	678					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	32	$1,521	126,539	29,987	10,545					
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	42	$1,363	83,782	24,137	8,378					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		10	$132,104	10,761,279	2,441,085	813,695					
Ag, Commercial and Industrial Total		**3,301**	**$251,801**	**26,703,744**	**7,165,616**	**2,097,495**	**2,697**	**$79,506**	**12,625,474**	**3,653,702**	**1,035,554**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**32%**	**47%**		**49%**
II. Demand Response Programs											
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price	45	$10,341				8	$1,721			
III. Energy Audit & Technical Support Programs											
Energy Audit Services - Residential *	Energy Audit Services - Residential							$1,052			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	23,350	$68,110				18,115	$70,105			
Peak Alert	Peak Alert	23,350									
Living with Energy in Iowa	Living with Energy in Iowa magazine.	18,350	$31,385				18,115	$75,986			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	23,345	$73,979				18,115	$66,358			
TOTAL		**101,957**	**$1,242,843**	**109,533,344**	**22,215,234**	**7,337,521**	**92,593**	**$754,584**	**68,743,606**	**15,974,791**	**5,417,366**
Percentage of 5 year plan goal achieved								**61%**	**63%**		**74%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Guthrie County Rural Electric Cooperative Association	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	20	$3,289	97,514	6,965	7	18	2,761	101,803	7,272	8
ENERGY STAR Qualified Room Air Conditioner	1	$33	883	98	0	2	$77	1,766	196	0
Geothermal Heat Pump	25	$51,809	6,592,211	329,611	11	26	$43,625	6,855,900	342,795	12
Air Source Heat Pump	29	$26,053	3,392,330	226,155	9	31	$31,090	3,626,284	241,752	11
Heat Recovery Ventilators										
Residential Contractor Rebates	20	$4,000				29	$5,836			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	431	$1,134	204,585	28,025	26	2,098	$3,126	1,114,042	152,608	139
Local CFL Rebate Program(s)	1,000	$2,632	474,674	65,024	60	131	$488	62,182	8,518	9
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures										
ENERGY STAR LED lighting										
ENERGY STAR Ceiling Fan	1	$20	2,996	166	0					
Exterior Lighting										
High Efficiency Exterior Lighting	59	$2,329	58,652	13,330	1	97	$5,882	103,783	23,587	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	55	$8,224	220,117	14,674	2	32	$4,620	128,632	8,575	1
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	120	$4,737	397,550	44,172	2					
Flow Restrictors - Shower	120	$7,895	753,836	75,384	6					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$1,704	65,465	5,951	2	54	$3,578	113,472	10,316	4
ENERGY STAR Qualified Dishwasher	15	$493	19,276	1,752	1	17	$650	21,846	1,986	2
ENERGY STAR Qualified Refrigerator	20	$658	31,410	2,094	0	56	$2,143	87,948	5,863	1
ENERGY STAR Qualified Dehumidifier	5	$164	14,085	1,174	0	1	$38	2,817	235	0
ENERGY STAR Qualified Freezer	10	$329	11,076	738	0	11	$421	12,184	812	0
Appliance Recycling	10	$765	107,322	11,925	2					
Efficient Television	5	$263	9,919	827	0					
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,316	66,126	2,204	0					
Additional Low Income										
Energy Efficiency Kits	15	$691	152,057	16,895	2					
Building Shell - Existing Home Only										
Weatherization Rebates	46	$17,572	1,023,471	35,030	5					
Residential Total	**2,036**	**$136,109**	**13,695,553**	**882,196**	**136**	**2,603**	**$104,336**	**12,232,658**	**804,516**	**187**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	73	$192	39,390	10,942	4					
High Efficiency Interior Lighting	365	$6,163	426,013	83,664	1	73	$3,652	198,672	31,042	1
Exterior Lighting										
High Efficiency Exterior Lighting	1	$39	1,107	226	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$99	4,414	294	0					
Geothermal Heat Pump	225	$48,026	9,581,657	479,083	27	225	$42,454	9,581,657	479,083	30
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	4	$1,053	93,304	6,220	0					
Commercial Contractor Rebate (GS & AS)	229	$2,842								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,579	370,239	24,683	2					
Agricultural										
Ventilation Thermostat Controller										
Circulating Fans --- BESS Lab Ratings	5	$241	19,772	1,648	1					
Hog Farrowing - Single Crate Heating Pads (<=85W)	7	$230	13,964	1,396						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$26,766	2,152,256	162,739	16					
Ag, Commercial and Industrial Total	**915**	**$87,230**	**12,702,116**	**770,894**	**52**	**298**	**$46,105**	**9,780,329**	**510,125**	**31**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Commercial and Industrial Time-of-Day Price	9	$1,957				8	$1,721			
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *										
IV. Educational & Research Programs										
Member Information and Education	4,660	$13,018				3,666	$16,603			
Peak Alert	4,660									
Living with Energy in Iowa	3,660	$6,277				3,666	$11,098			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,660	$13,656				3,666	$12,706			
TOTAL	**20,600**	**$258,248**	**26,397,668**	**1,653,090**	**188**	**13,907**	**$192,570**	**22,012,987**	**1,314,641**	**218**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progra

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Guthrie County Rural Electric Cooperative Association	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	20	$3,268	97,514	6,965	7	14	$2,094	62,643	4,475	5
ENERGY STAR Qualified Room Air Conditioner	1	$33	883	98	0	4	$127	3,531	392	
Geothermal Heat Pump	29	$59,706	7,646,965	382,348	12	21	$35,384	5,537,457	276,873	10
Air Source Heat Pump	32	$28,627	3,743,261	249,551	10	17	$15,149	1,865,877	124,392	4
Heat Recovery Ventilators						1	$159	12,432	622	
Residential Contractor Rebates	23	$4,600				24	$6,090			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	431	$1,127	204,585	28,025	26	1,554	$3,253	756,623	103,647	19
Local CFL Rebate Program(s)	1,000	$2,614	474,674	65,024	60	68	$173	32,278	4,422	4
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures										
ENERGY STAR LED lighting										
ENERGY STAR Ceiling Fan	1	$20	2,996	166	0					
Exterior Lighting										
High Efficiency Exterior Lighting	60	$2,353	59,646	13,556	1	78	$2,969	88,887	20,201	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	56	$8,301	223,555	14,904	2	19	$2,664	73,598	4,907	1
Heat Pump Water Heater - (Integrated)						1	$634	22,946	1,912	
Flow Restrictors - Faucet	150	$5,882	496,937	55,215	3					
Flow Restrictors - Shower	150	$9,804	942,296	94,230	8					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$1,693	65,465	5,951	2	42	$3,020	104,319	9,484	4
ENERGY STAR Qualified Dishwasher	15	$490	19,276	1,752	1	14	$444	17,991	1,636	1
ENERGY STAR Qualified Refrigerator	20	$654	31,410	2,094	0	39	$1,237	61,249	4,083	
ENERGY STAR Qualified Dehumidifier	5	$163	14,085	1,174	0	1	$32	2,817	235	
ENERGY STAR Qualified Freezer	10	$327	11,076	738	0	8	$254	8,861	591	
Appliance Recycling	10	$765	107,322	11,925	2	8	$647	78,419	8,713	2
Efficient Television	6	$314	11,903	992	0					
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,307	66,126	2,204	0					
Additional Low Income										
Energy Efficiency Kits	18	$824	182,468	20,274	2					
Building Shell - Existing Home Only										
Weatherization Rebates	54	$20,624	1,217,600	41,652	6					
Residential Total	**2,120**	**$153,495**	**15,620,041**	**998,839**	**142**	**1,913**	**$74,330**	**8,729,928**	**566,585**	**51**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	73	$191	39,390	10,942	4	88	$184	43,746	12,152	1
High Efficiency Interior Lighting	437	$7,644	520,850	100,829	1					
Exterior Lighting										
High Efficiency Exterior Lighting	1	$39	1,107	226	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$98	4,414	294	0					
Geothermal Heat Pump	10	$4,575	425,851	21,293	1					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	4	$1,046	93,304	6,220	0					
Commercial Contractor Rebate (GS & AS)	14	$732								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,569	370,239	24,683	2					
Agricultural										
Ventilation Thermostat Controller										
Circulating Fans --- BESS Lab Ratings	6	$287	23,726	1,977	1					
Hog Farrowing - Single Crate Heating Pads (<=85W)	8	$261	15,958	1,596						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$26,591	2,152,256	162,739	16					
Ag, Commercial and Industrial Total	**559**	**$43,034**	**3,647,096**	**330,798**	**27**	**88**	**$184**	**43,746**	**12,152**	**1**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Commercial and Industrial Time-of-Day Price	9	$2,007								
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *										
IV. Educational & Research Programs										
Member Information and Education	4,665	$13,315				3,659	$16,067			
Peak Alert	4,665									
Living with Energy in Iowa	3,665	$6,277				3,659	$13,245			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,665	$14,226				3,659	$12,649			
TOTAL	**20,348**	**$232,354**	**19,267,137**	**1,329,637**	**169**	**12,978**	**$116,475**	**8,773,674**	**578,737**	**52**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progra

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Guthrie County Rural Electric Cooperative Association	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	20	$3,247	97,514	6,965	7	18	2,438	70,914	5,065	5
ENERGY STAR Qualified Room Air Conditioner	1	$32	883	98	0	1	$31	883	98	
Geothermal Heat Pump	32	$65,455	8,438,030	421,902	14	17	$25,813	4,482,704	224,135	8
Air Source Heat Pump	35	$31,169	4,094,191	272,946	11	16	$13,656	1,626,171	108,411	3
Heat Recovery Ventilators										
Residential Contractor Rebates	25	$5,000				20	$5,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	409	$1,062	194,142	26,595	25	8,502	$17,515	3,783,952	518,350	71
Local CFL Rebate Program(s)	950	$2,468	450,941	61,773	57	76	$190	36,075	4,942	5
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures						4	$75	3,398	207	
ENERGY STAR LED lighting						13	$488	17,279	960	1
ENERGY STAR Ceiling Fan	1	$19	2,996	166	0	4	$75	11,982	666	
Exterior Lighting										
High Efficiency Exterior Lighting	61	$2,377	60,640	13,782	1	73	$2,738	83,189	18,907	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	57	$8,377	226,994	15,133	2	36	$4,813	134,120	8,941	1
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	173	$6,740	573,134	63,682	3					
Flow Restrictors - Shower	173	$11,234	1,086,781	108,678	9					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$1,682	65,465	5,951	2	48	$3,369	117,885	10,717	4
ENERGY STAR Qualified Dishwasher	15	$487	19,276	1,752	1	22	$688	28,271	2,570	2
ENERGY STAR Qualified Refrigerator	20	$649	31,410	2,094	0	41	$1,281	64,390	4,293	
ENERGY STAR Qualified Dehumidifier	5	$162	14,085	1,174	0	4	$125	11,268	939	
ENERGY STAR Qualified Freezer	10	$325	11,076	738	0	11	$344	12,184	812	
Appliance Recycling	10	$765	107,322	11,925	2	10	$925	90,520	10,058	2
Efficient Television	7	$364	13,886	1,157	0	9	$450	17,854	1,488	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,299	66,126	2,204	0					
Additional Low Income										
Energy Efficiency Kits	14	$636	141,920	15,769	2					
Building Shell - Existing Home Only										
Weatherization Rebates	60	$23,281	1,402,439	47,963	6	1	$424	45,362	1,512	
Residential Total	**2,107**	**$166,829**	**17,099,249**	**1,082,447**	**142**	**8,926**	**$80,438**	**10,638,401**	**923,071**	**103**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	69	$179	37,232	10,342	4	469	$961	220,430	61,230	4
High Efficiency Interior Lighting	491	$8,656	588,297	113,319	2	345	$9,959	679,119	106,112	3
Exterior Lighting										
High Efficiency Exterior Lighting	1	$39	1,107	226	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$97	4,414	294	0					
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	4	$1,039	93,304	6,220	0	6	$1,125	132,958	8,864	1
Commercial Contractor Rebate (GS & AS)	4	$208								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,558	370,239	24,683	2					
Agricultural										
Ventilation Thermostat Controller	1	$32	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	7	$333	27,680	2,307	1					
Hog Farrowing - Single Crate Heating Pads (<=85W)	9	$292	17,953	1,795						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$26,419	2,152,256	162,739	16					
Ag, Commercial and Industrial Total	**592**	**$38,854**	**3,295,193**	**322,151**	**26**	**820**	**$12,045**	**1,032,507**	**176,206**	**8**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Commercial and Industrial Time-of-Day Price	9	$2,075								
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *										
IV. Educational & Research Programs										
Member Information and Education	4,670	$13,620				3,524	$15,685			
Peak Alert	4,670									
Living with Energy in Iowa	3,670	$6,277				3,524	$17,997			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,670	$14,795				3,524	$12,068			
TOTAL	**20,388**	**$242,449**	**20,394,443**	**1,404,599**	**168**	**20,318**	**$138,233**	**11,670,908**	**1,099,277**	**111**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progra

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Guthrie County Rural Electric Cooperative Association	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	20	$3,226	97,514	6,965	7	13	$1,843	56,364	4,026	4
ENERGY STAR Qualified Room Air Conditioner	1	$32	883	98	0	2	$64	1,766	196	0
Geothermal Heat Pump	34	$69,097	8,965,407	448,270	15	24	$43,456	6,328,523	316,426	11
Air Source Heat Pump	37	$32,774	4,328,145	288,543	11	17	$13,868	1,835,195	122,346	4
Heat Recovery Ventilators						1	$159	12,432	622	
Residential Contractor Rebates	26	$5,200				32	$8,133			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	376	$970	178,478	24,449	23	11,201	$22,429	4,629,540	634,184	87
Local CFL Rebate Program(s)	874	$2,255	414,865	56,831	52	41	$104	19,462	2,666	3
ENERGY STAR CFL/LED Fixtures						2	$20	4,364	218	0
T8 or better Lighting Fixtures						22	$592	32,679	1,993	1
ENERGY STAR LED lighting						108	$2,999	143,546	7,975	5
ENERGY STAR Ceiling Fan	1	$19	2,996	166	0					
Exterior Lighting										
High Efficiency Exterior Lighting	63	$2,439	62,628	14,234	1	88	$2,465	109,190	24,816	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	58	$8,452	230,433	15,362	2	45	$6,417	177,466	11,831	2
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	182	$7,045	602,950	66,994	4					
Flow Restrictors - Shower	182	$11,742	1,143,319	114,332	9					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$1,671	65,465	5,951	2	44	$3,425	118,103	10,737	4
ENERGY STAR Qualified Dishwasher	15	$484	19,276	1,752	1	25	$794	32,126	2,921	2
ENERGY STAR Qualified Refrigerator	20	$645	31,410	2,094	0	43	$1,366	67,531	4,502	0
ENERGY STAR Qualified Dehumidifier	5	$161	14,085	1,174	0	5	$159	14,085	1,174	0
ENERGY STAR Qualified Freezer	10	$323	11,076	738	0	12	$381	13,291	886	0
Appliance Recycling	10	$765	107,322	11,925	2	16	$1,512	132,467	14,719	3
Efficient Television	7	$361	13,886	1,157	0	16	$813	31,740	2,645	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,290	66,126	2,204	0	1	$635	33,063	1,102	0
Additional Low Income										
Energy Efficiency Kits	7	$316	70,960	7,884	1					
Building Shell - Existing Home Only										
Weatherization Rebates	62	$23,484	1,411,729	48,273	6	8	$5,119	279,977	9,333	1
Residential Total	**2,019**	**$172,752**	**17,838,952**	**1,119,399**	**137**	**11,766**	**$116,753**	**14,072,910**	**1,175,316**	**131**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	63	$163	33,994	9,443	4	618	$1,239	270,127	75,035	4
High Efficiency Interior Lighting	515	$8,970	614,434	118,621	2	170	$7,378	727,957	113,743	33
Exterior Lighting										
High Efficiency Exterior Lighting	1	$39	1,107	226	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$97	4,414	294	0					
Geothermal Heat Pump	10	$4,516	425,851	21,293	1					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	4	$1,032	93,304	6,220	0					
Commercial Contractor Rebate (GS & AS)	14	$723								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,548	370,239	24,683	2					
Agricultural										
Ventilation Thermostat Controller	1	$32	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	7	$331	27,680	2,307	1					
Hog Farrowing - Single Crate Heating Pads (<=85W)	9	$290	17,953	1,795						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$26,248	2,152,256	162,739	16					
Ag, Commercial and Industrial Total	**630**	**$43,989**	**3,743,944**	**347,847**	**26**	**788**	**$8,617**	**998,085**	**188,779**	**38**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Commercial and Industrial Time-of-Day Price	9	$2,129								
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *							$526			
IV. Educational & Research Programs										
Member Information and Education	4,675	$13,926				3,626	$7,482			
Peak Alert	4,675									
Living with Energy in Iowa	3,675	$6,277				3,626	$16,566			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,670	$15,366				3,626	$15,119			
TOTAL	**20,353**	**$254,439**	**21,582,896**	**1,467,245**	**163**	**23,432**	**$165,063**	**15,070,995**	**1,364,095**	**169**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progra

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Guthrie County Rural Electric Cooperative Association	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	20	$3,205	97,514	6,965	7	10	$1,563	51,565	3,683	4
ENERGY STAR Qualified Room Air Conditioner	1	$32	883	98	0	2	$63	1,766	196	0
Geothermal Heat Pump	36	$72,692	9,492,784	474,639	15	13	$19,031	3,427,950	171,397	6
Air Source Heat Pump	39	$34,359	4,562,099	304,140	12	12	$10,606	1,311,675	87,445	3
Heat Recovery Ventilators						4	$625	49,727	2,486	
Residential Contractor Rebates	27	$5,400				19	$4,750			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	346	$887	164,237	22,498	21	9,675	$18,679	3,926,282	537,847	74
Local CFL Rebate Program(s)	804	$2,062	381,638	52,279	48	29	$106	13,766	1,886	2
ENERGY STAR CFL/LED Fixtures						8	$140	17,457	873	0
T8 or better Lighting Fixtures						114	$2,058	125,292	7,640	1
ENERGY STAR LED lighting						172	$1,915	228,611	12,701	8
ENERGY STAR Ceiling Fan	1	$19	2,996	166	0					
Exterior Lighting										
High Efficiency Exterior Lighting	65	$2,500	64,616	14,685	1	85	$1,163	103,876	23,608	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	59	$8,526	233,871	15,591	2	19	$3,063	88,063	5,871	1
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	187	$7,192	619,515	68,835	4					
Flow Restrictors - Shower	187	$11,987	1,174,728	117,473	9					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$1,660	65,465	5,951	2	35	$2,494	86,959	7,905	3
ENERGY STAR Qualified Dishwasher	15	$481	19,276	1,752	1	22	$688	28,271	2,570	2
ENERGY STAR Qualified Refrigerator	20	$641	31,410	2,094	0	50	$1,563	78,525	5,235	1
ENERGY STAR Qualified Dehumidifier	5	$160	14,085	1,174	0	7	$219	19,719	1,643	0
ENERGY STAR Qualified Freezer	10	$321	11,076	738	0	5	$156	5,538	369	0
Appliance Recycling	10	$765	107,322	11,925	2	10	$1,121	96,164	10,685	2
Efficient Television	7	$359	13,886	1,157	0	22	$1,100	43,643	3,637	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,282	66,126	2,204	0	3	$1,500	99,189	3,306	1
Additional Low Income										
Energy Efficiency Kits	4	$179	40,548	4,505	1					
Building Shell - Existing Home Only										
Weatherization Rebates	62	$23,333	1,411,729	48,273	6	19	$11,395	640,199	21,340	2
Residential Total	**1,934**	**$178,043**	**18,575,805**	**1,157,145**	**132**	**10,335**	**$83,998**	**10,444,235**	**912,324**	**111**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	58	$149	31,296	8,693	3	535	$1,035	229,194	63,665	4
High Efficiency Interior Lighting	515	$8,912	614,434	118,621	2	168	$11,520	541,612	84,627	14
Exterior Lighting										
High Efficiency Exterior Lighting	1	$38	1,107	226	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$96	4,414	294	0					
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	4	$1,026	93,304	6,220	0					
Commercial Contractor Rebate (GS & AS)	4	$205								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,538	370,239	24,683	2					
Agricultural										
Ventilation Thermostat Controller	1	$32	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	7	$329	27,680	2,307	1					
Hog Farrowing - Single Crate Heating Pads (<=85W)	9	$288	17,953	1,795						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$26,080	2,152,256	162,739	16					
Ag, Commercial and Industrial Total	**605**	**$38,694**	**3,315,395**	**325,805**	**25**	**703**	**$12,555**	**770,807**	**148,292**	**18**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Commercial and Industrial Time-of-Day Price	9	$2,173								
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *							$526			
IV. Educational & Research Programs										
Member Information and Education	4,680	$14,231				3,640	$14,268			
Peak Alert	4,680									
Living with Energy in Iowa	3,680	$6,277				3,640	$17,080			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,680	$15,936				3,640	$13,816			
TOTAL	**20,268**	**$255,354**	**21,891,200**	**1,482,950**	**157**	**21,958**	**$142,243**	**11,215,042**	**1,060,616**	**129**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progra

Harrison County Rural Electric Cooperative
Woodbine, Iowa

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before January 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required… and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on December 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Harrison County Rural Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals, and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before January 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Harrison County Rural Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant. Harrison County Rural Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Harrison County Rural Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Harrison County Rural Electric Cooperative.

Harrison County Rural Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Harrison County Rural Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters, and appliances. Harrison County Rural Electric Cooperative offers similar programs for the small commercial member-consumers, but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Harrison County Rural Electric Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine

what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Harrison County Rural Electric Cooperative also offers energy audits for all member-consumers.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Harrison County Rural Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Harrison County Rural Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it yourself ideas. Harrison County Rural Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, and through energy education outreach to our local schools and other community organizations. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Harrison County Rural Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Harrison County Rural Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers’ energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Harrison County Rural Electric Cooperative. Harrison County Rural Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Harrison County Rural Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	35	$6,251	142,952	27,102	10,211	8	$1,688	35,213	5,549	2,515
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	38	$1,213	29,990	8,857	3,332	2	$68	1,578	525	175
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	42	$104,210	11,154,301	1,580,193	557,715	107	$302,200	28,416,910	4,528,118	1,420,846
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	246	$184,519	28,982,588	5,757,246	1,932,173	141	$106,305	16,611,972	3,715,112	1,107,465
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	11,462	$25,789	5,479,719	1,995,611	750,646	1,739	$4,231	831,376	154,491	113,887
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.						6,418	$15,568	3,068,298	1,680,341	420,314
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	335	$83,798	1,628,453	324,212	108,564	204	$59,880	829,287	168,113	55,286
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	270	$2,870	900,898	300,299	100,100					
Flow Restrictors - Shower	Incentive for low-flow shower head.	135	$1,435	854,145	256,244	85,415					
Tank Insulation	Incentive for water heater tank insulation.	135	$1,435	230,769	69,231	23,077					
Pipe Insulation	Incentive for water pipe insulation.	135	$1,435	240,509	48,102	16,034					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	36	$2,296	87,912	20,868	7,992	94	$7,388	244,322	78,422	22,211
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	225	$7,044	291,209	70,008	26,474	57	$2,573	73,772	20,590	6,706
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	182	$5,688	287,879	50,932	19,192	90	$4,112	142,358	28,575	9,490
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	270	$8,445	301,199	53,249	20,080	27	$1,346	30,119	6,248	2,008
Appliance Recycling	Incentives for appliance recycling.	384	$23,229	3,407,452	1,134,437	378,946	54	$2,752	454,649	158,093	51,061
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	50	$2,130	508,491	169,497	56,499	298	$6,554	3,030,607	1,036,195	336,735
Weatherization Rebates	Rebates for various insulation measures.						12	$7,740	607,792	60,777	20,259
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	110	$68,716	5,025,636	420,326	167,521	28	$18,809	1,275,257	95,344	42,508
Residential Total		**14,090**	**$530,503**	**59,554,102**	**12,286,412**	**4,263,970**	**9,279**	**$541,214**	**55,653,511**	**11,736,493**	**3,611,469**
Percentage of 5 year plan goal - Residential								**102%**	**93%**		**85%**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	1,357	$2,716	737,470	544,513	204,853					
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	2,759	$5,992	2,593,039	1,492,119	560,551	1,114	$3,951	776,083	230,606	219,319
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	5	$7,785	86,802	13,020	4,340	13	$35,100	225,685	45,136	11,284
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	10	$7,065	261,738	52,348	17,449					
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	25	$4,560	138,611	27,722	9,241					
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	320	$127,930	3,420,576	684,115	228,038					
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	100	$6,060	37,289,340	7,457,868	2,485,956					
Ag, Commercial and Industrial Total		**4,576**	**$162,108**	**44,527,576**	**10,271,705**	**3,510,428**	**1,127**	**$39,051**	**1,001,768**	**275,742**	**230,603**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**24%**	**2%**		**7%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	8,151	$596,071				7,659	$781,584			
Air Conditioning Load Control	Load control for air conditioning	7,171	$518,957				6,873	$702,863			
Space Heating Load Control (Interruptible)	Load control for space heating.	8,217	$613,994				1,473	$115,649			
Dual-Fuel Space Heating	Duel fuel space heating	155	$12,922				31	$2,434			
Crop Drying											
Load Control	Crop drying load control.						29	$2,896			
Irrigation											
Load Control	Irrigation load control.	660	$48,353				623	$63,837			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	15	$3,000								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	5	$1,500								
Energy Audit Services - Residential *	Energy Audit Services - Residential	30	$3,000				20	$2,200			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	11,865	$24,360				11,754	$85,053			
Peak Alert	Peak Alert	11,865	$1,640								
Living with Energy in Iowa	Living with Energy in Iowa magazine.	11,865	$28,620				11,754	$33,424			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	11,865	$32,545				11,754	$48,321			
TOTAL		**90,530**	**$2,577,572**	**104,081,678**	**22,558,117**	**7,774,398**	**62,376**	**$2,418,526**	**56,655,278**	**12,012,234**	**3,842,071**
Percentage of 5 year plan goal achieved								**94%**	**54%**		**49%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Harrison County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	5	$815	19,829	1,416	2					
ENERGY STAR Qualified Room Air Conditioner	5	$159	3,946	438	0					
Geothermal Heat Pump	7	$16,296	1,859,050	92,953	11	19	$54,300	5,045,993	252,300	32
Air Source Heat Pump	48	$36,138	5,655,139	377,009	49	39	$29,850	4,594,801	306,320	44
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,514	$3,406	723,809	99,152	91	155	$382	74,102	10,151	10
Local CFL Rebate Program(s)						1,954	$5,752	934,162	127,967	130
Residential Water Heating (low income included)										
High Efficiency Water Heater	66	$16,453	320,146	21,343	3	44	$13,200	152,381	10,159	1
Flow Restrictors - Faucet	54	$574	180,180	20,020	1					
Flow Restrictors - Shower	27	$287	170,829	17,083	1					
Tank Insulation	27	$287	46,154	4,615	0					
Pipe Insulation	27	$287	48,102	3,207	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$300	12,210	1,110	0	22	$1,650	68,498	6,227	2
ENERGY STAR Qualified Dishwasher	29	$920	37,534	3,412	3	9	$338	11,648	1,059	1
ENERGY STAR Qualified Refrigerator	24	$743	37,962	2,531	0	16	$600	25,308	1,687	0
ENERGY STAR Qualified Freezer	35	$1,105	39,044	2,603	0	8	$300	8,924	595	0
Appliance Recycling	76	$4,588	672,843	74,828	13					
Additional Low Income										
Energy Efficiency Kits	10	$426	101,698	11,300	1	50	$1,688	508,491	56,499	7
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	11	$6,998	502,564	16,752	1	5	$3,000	226,440	7,548	1
Residential Total	**1,970**	**$89,782**	**10,431,038**	**749,773**	**178**	**2,321**	**$111,060**	**11,650,749**	**780,512**	**230**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	179	$359	97,279	27,022	11					
High Efficiency Interior Lighting	367	$830	344,085	74,367	1					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,557	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,413	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$912	27,722	1,848	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	64	$25,586	684,115	45,608	6					
Variable Speed Drive Motor Incentive	20	$1,212	7,457,868	497,191	43					
Ag, Commercial and Industrial Total	**638**	**$31,869**	**8,680,777**	**650,393**	**61**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	1,496	$112,273			748	1,430	$112,273			794
Air Conditioning Load Control	1,305	$97,748			914	1,245	$97,748			967
Space Heating Load Control (Interruptible)	1,528	$115,649			6,876	1,473	$115,649			7,358
Dual-Fuel Space Heating	31	$2,434			186	31	$2,434			206
Crop Drying										
Load Control						7	$550			16
Irrigation										
Load Control	122	$9,107			805	116	$9,107			850
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600								
Expert Energy Services - C&I	1	$300								
Energy Audit Services - Residential *	6	$600								
IV. Educational & Research Programs										
Member Information and Education	2,373	$4,872				2,379	$16,967			
Peak Alert	2,373	$328								
Living with Energy in Iowa	2,373	$5,724				2,379	$6,784			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,373	$6,509				2,379	$8,394			
TOTAL	**16,592**	**$477,794**	**19,111,815**	**1,400,166**	**9,767**	**13,760**	**$480,966**	**11,650,749**	**780,512**	**10,421**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Harrison County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	5	$1,030	19,829	1,416	2	1	$300	5,625	402	
ENERGY STAR Qualified Room Air Conditioner	6	$201	4,735	526	1					
Geothermal Heat Pump	8	$18,562	2,124,629	106,231	12	34	$97,500	9,029,672	451,484	58
Air Source Heat Pump	49	$36,589	5,772,955	384,864	50	34	$25,500	4,005,724	267,048	38
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,899	$4,273	907,868	124,366	114					
Local CFL Rebate Program(s)						2,496	$5,940	1,193,280	163,463	166
Residential Water Heating (low income included)										
High Efficiency Water Heater	67	$16,628	325,691	21,713	3	45	$13,500	172,494	11,500	1
Flow Restrictors - Faucet	54	$574	180,180	20,020	1					
Flow Restrictors - Shower	27	$287	170,829	17,083	1					
Tank Insulation	27	$287	46,154	4,615	0					
Pipe Insulation	27	$287	48,102	3,207	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$379	12,210	1,110	0	26	$1,950	63,492	5,772	2
ENERGY STAR Qualified Dishwasher	37	$1,162	47,888	4,353	3	12	$450	15,531	1,412	1
ENERGY STAR Qualified Refrigerator	30	$938	47,453	3,164	0	14	$525	22,145	1,476	
ENERGY STAR Qualified Freezer	45	$1,394	50,200	3,347	0	2	$75	2,231	149	
Appliance Recycling	77	$4,616	683,652	76,029	13	22	$743	178,898	20,150	5
Additional Low Income										
Energy Efficiency Kits	10	$426	101,698	11,300	1	73	$1,651	742,397	82,489	11
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	17	$10,328	776,689	25,890	2	2	$1,292	89,377	2,979	
Residential Total	**2,390**	**$97,961**	**11,320,760**	**809,233**	**205**	**2,761**	**$149,426**	**15,520,866**	**1,008,324**	**282**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	225	$450	122,278	33,966	14					
High Efficiency Interior Lighting	459	$1,012	430,969	93,157	1					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,557	17,360	868	0	13	$35,100	225,685	11,284	2
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,413	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$912	27,722	1,848	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	64	$25,586	684,115	45,608	6					
Variable Speed Drive Motor Incentive	20	$1,212	7,457,868	497,191	43					
Ag, Commercial and Industrial Total	**776**	**$32,142**	**8,792,660**	**676,128**	**64**	**13**	**$35,100**	**225,685**	**11,284**	**2**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	1,563	$115,641			782	1,548	$144,575			859
Air Conditioning Load Control	1,367	$100,680			957	1,387	$129,538			1,078
Space Heating Load Control (Interruptible)	1,585	$119,118			7,133					
Dual-Fuel Space Heating	31	$2,507			186					
Crop Drying										
Load Control						6	$560			13
Irrigation										
Load Control	128	$9,381			845	117	$10,927			857
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600								
Expert Energy Services - C&I	1	$300								
Energy Audit Services - Residential *	6	$600								
IV. Educational & Research Programs										
Member Information and Education	2,373	$4,872				2,378	$13,462			
Peak Alert	2,373	$328								
Living with Energy in Iowa	2,373	$5,724				2,378	$6,657			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,373	$6,509				2,378	$8,752			
TOTAL	**17,342**	**$496,363**	**20,113,420**	**1,485,361**	**10,171**	**12,966**	**$498,997**	**15,746,551**	**1,019,608**	**3,091**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Harrison County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,248	32,556	2,325	3	1	188	3,994	285	
ENERGY STAR Qualified Room Air Conditioner	8	$242	6,314	702	1	2	$68	1,578	175	
Geothermal Heat Pump	8	$20,853	2,124,629	106,231	12	20	$49,900	5,311,572	265,579	34
Air Source Heat Pump	49	$36,994	5,772,955	384,864	50	27	$17,805	3,181,016	212,068	31
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,290	$5,152	1,094,796	149,972	137					
Local CFL Rebate Program(s)						1,968	$3,876	940,856	128,884	131
Residential Water Heating (low income included)										
High Efficiency Water Heater	67	$16,787	325,691	21,713	3	44	$11,880	160,706	10,714	1
Flow Restrictors - Faucet	54	$574	180,180	20,020	1					
Flow Restrictors - Shower	27	$287	170,829	17,083	1					
Tank Insulation	27	$287	46,154	4,615	0					
Pipe Insulation	27	$287	48,102	3,207	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	7	$459	17,094	1,554	1	24	$1,980	58,608	5,328	2
ENERGY STAR Qualified Dishwasher	45	$1,407	58,242	5,295	4	17	$871	22,002	2,000	2
ENERGY STAR Qualified Refrigerator	36	$1,136	56,943	3,796	0	25	$1,461	39,544	2,636	
ENERGY STAR Qualified Freezer	54	$1,686	60,240	4,016	1	8	$530	8,924	595	
Appliance Recycling	77	$4,644	683,652	76,029	13	17	$711	141,192	15,824	3
Additional Low Income										
Energy Efficiency Kits	10	$426	101,698	11,300	1	75	$1,281	762,737	84,749	11
Weatherization Rebates						12	$7,740	607,792	20,259	2
Building Shell - Existing Home Only										
Weatherization Rebates	22	$13,698	1,005,127	33,504	3					
Residential Total	**2,816**	**$106,167**	**11,785,201**	**846,226**	**231**	**2,240**	**$98,291**	**11,240,521**	**749,096**	**217**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	271	$543	147,277	40,910	16					
High Efficiency Interior Lighting	551	$1,198	517,852	111,947	2	28	$1,234	16,587	5,426	
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,557	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,413	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$912	27,722	1,848	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	64	$25,586	684,115	45,608	6					
Variable Speed Drive Motor Incentive	20	$1,212	7,457,868	497,191	43					
Ag, Commercial and Industrial Total	**914**	**$32,421**	**8,904,542**	**701,862**	**67**	**28**	**$1,234**	**16,587**	**5,426**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	1,630	$119,110			815	1,505	$162,008			835
Air Conditioning Load Control	1,432	$103,701			1,002	1,347	$145,000			1,047
Space Heating Load Control (Interruptible)	1,642	$122,692			7,389					
Dual-Fuel Space Heating	31	$2,582			186					
Crop Drying										
Load Control						7	$754			16
Irrigation										
Load Control	132	$9,662			871	114	$12,272			835
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600								
Expert Energy Services - C&I	1	$300								
Energy Audit Services - Residential *	6	$600								
IV. Educational & Research Programs										
Member Information and Education	2,373	$4,872				2,317	$22,824			
Peak Alert	2,373	$328								
Living with Energy in Iowa	2,373	$5,724				2,317	$6,814			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,373	$6,509				2,317	$9,421			
TOTAL	**18,099**	**$515,268**	**20,689,743**	**1,548,088**	**10,562**	**12,192**	**$458,618**	**11,257,108**	**754,522**	**2,950**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Harrison County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,465	32,556	2,325	3	4	$975	17,607	1,258	2
ENERGY STAR Qualified Room Air Conditioner	9	$284	7,103	789	1					
Geothermal Heat Pump	9	$23,060	2,390,207	119,510	14	16	$47,100	4,249,258	212,463	27
Air Source Heat Pump	50	$37,190	5,890,770	392,718	51	20	$14,400	2,356,308	157,087	23
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,677	$6,023	1,279,812	175,317	161					
Local CFL Rebate Program(s)										
Residential Water Heating (low income included)										
High Efficiency Water Heater	67	$16,882	325,691	21,713	3	44	$13,200	243,956	16,264	2
Flow Restrictors - Faucet	54	$574	180,180	20,020	1					
Flow Restrictors - Shower	27	$287	170,829	17,083	1					
Tank Insulation	27	$287	46,154	4,615	0					
Pipe Insulation	27	$287	48,102	3,207	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	9	$538	21,978	1,998	1	15	$1,125	36,630	3,330	1
ENERGY STAR Qualified Dishwasher	53	$1,651	68,596	6,236	5	12	$450	15,531	1,412	1
ENERGY STAR Qualified Refrigerator	43	$1,333	68,015	4,534	0	25	$863	39,544	2,636	0
ENERGY STAR Qualified Freezer	63	$1,979	70,280	4,685	1	3	$113	3,347	223	0
Appliance Recycling	77	$4,675	683,652	76,029	13	14	$1,155	133,793	14,934	3
Additional Low Income										
Energy Efficiency Kits	10	$426	101,698	11,300	1	50	$967	508,491	56,499	7
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	27	$17,115	1,233,565	41,119	3	9	$6,078	411,188	13,706	1
Residential Total	**3,237**	**$114,056**	**12,619,188**	**903,199**	**259**	**212**	**$86,426**	**8,015,652**	**479,812**	**68**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	317	$634	172,276	47,854	19					
High Efficiency Interior Lighting	643	$1,380	604,736	130,737	2	2	$442	2,785	435	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,557	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,413	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$912	27,722	1,848	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	64	$25,586	684,115	45,608	6					
Variable Speed Drive Motor Incentive	20	$1,212	7,457,868	497,191	43					
Ag, Commercial and Industrial Total	**1,052**	**$32,694**	**9,016,425**	**727,596**	**70**	**2**	**$442**	**2,785**	**435**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	1,697	$122,683			849	1,552	$179,620			861
Air Conditioning Load Control	1,499	$106,812			1,049	1,433	$165,847			1,113
Space Heating Load Control (Interruptible)	1,701	$126,372			7,655					
Dual-Fuel Space Heating	31	$2,660			186					
Crop Drying										
Load Control						6	$694			13
Irrigation										
Load Control	136	$9,952			898	138	$15,971			1,011
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600								
Expert Energy Services - C&I	1	$300								
Energy Audit Services - Residential *	6	$600				10	$700			
IV. Educational & Research Programs										
Member Information and Education	2,373	$4,872				2,332	$11,439			
Peak Alert	2,373	$328								
Living with Energy in Iowa	2,373	$5,724				2,332	$6,413			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,373	$6,509				2,332	$10,795			
TOTAL	**18,855**	**$534,162**	**21,635,613**	**1,630,795**	**10,965**	**10,349**	**$478,347**	**8,018,437**	**480,247**	**3,067**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Harrison County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	9	$1,693	38,182	2,727	3	2	$225	7,988	571	1
ENERGY STAR Qualified Room Air Conditioner	10	$327	7,892	877	1					
Geothermal Heat Pump	10	$25,439	2,655,786	132,789	15	18	$53,400	4,780,415	239,021	31
Air Source Heat Pump	50	$37,608	5,890,770	392,718	51	21	$18,750	2,474,123	164,942	24
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	3,082	$6,935	1,473,433	201,840	185	1,584	$3,849	757,274	103,736	105
Local CFL Rebate Program(s)										
Residential Water Heating (low income included)										
High Efficiency Water Heater	68	$17,048	331,235	22,082	3	27	$8,100	99,750	6,650	1
Flow Restrictors - Faucet	54	$574	180,180	20,020	1					
Flow Restrictors - Shower	27	$287	170,829	17,083	1					
Tank Insulation	27	$287	46,154	4,615	0					
Pipe Insulation	27	$287	48,102	3,207	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	10	$620	24,420	2,220	1	7	$683	17,094	1,554	1
ENERGY STAR Qualified Dishwasher	61	$1,904	78,950	7,177	5	7	$464	9,060	824	1
ENERGY STAR Qualified Refrigerator	49	$1,538	77,506	5,167	0	10	$663	15,818	1,055	0
ENERGY STAR Qualified Freezer	73	$2,281	81,435	5,429	1	6	$328	6,693	446	0
Appliance Recycling	77	$4,706	683,652	76,029	13	1	$143	766	153	0
Additional Low Income										
Energy Efficiency Kits	10	$426	101,698	11,300	1	50	$967	508,491	56,499	7
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	33	$20,577	1,507,691	50,256	4	12	$8,439	548,251	18,275	2
Residential Total	**3,677**	**$122,537**	**13,397,915**	**955,538**	**287**	**1,745**	**$96,011**	**9,225,723**	**593,725**	**172**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	365	$730	198,361	55,100	22					
High Efficiency Interior Lighting	739	$1,572	695,397	150,344	2	1,084	$2,275	756,711	213,457	3
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,557	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,413	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$912	27,722	1,848	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	64	$25,586	684,115	45,608	6					
Variable Speed Drive Motor Incentive	20	$1,212	7,457,868	497,191	43					
Ag, Commercial and Industrial Total	**1,196**	**$32,982**	**9,133,172**	**754,449**	**73**	**1,084**	**$2,275**	**756,711**	**213,457**	**3**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	1,765	$126,364			883	1,624	$183,108			901
Air Conditioning Load Control	1,568	$110,016			1,098	1,461	$164,730			1,135
Space Heating Load Control (Interruptible)	1,761	$130,164			7,925					
Dual-Fuel Space Heating	31	$2,739			186					
Crop Drying										
Load Control						3	$338			7
Irrigation										
Load Control	142	$10,250			937	138	$15,560			1,011
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600								
Expert Energy Services - C&I	1	$300								
Energy Audit Services - Residential *	6	$600				10	$1,500			
IV. Educational & Research Programs										
Member Information and Education	2,373	$4,872				2,348	$20,361			
Peak Alert	2,373	$328								
Living with Energy in Iowa	2,373	$5,724				2,348	$6,756			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,373	$6,509				2,348	$10,959			
TOTAL	**19,642**	**$553,985**	**22,531,087**	**1,709,987**	**11,388**	**13,109**	**$501,598**	**9,982,434**	**807,182**	**3,230**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate- regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required ... and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Hawkeye REG (HREC) was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of HREC and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant. HREC developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report", constituted the compilation of the required information for HREC and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including HREC.

HREC offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. HREC offers programs for residential member- consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. HREC offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of HREC, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio (one ethanol plant), prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. HREC also offers incentives for energy audits for all member- consumers.

In addition to the rebate opportunities, HREC offers demand response programs that help us to be both environmentally and fiscally responsible. These programs are water heater load control, home heating and air conditioning load control, irrigation, low temperature grain drying and C&I load control. These optional incentive programs allow member-consumers to receive rebates for equipment and/or reduced energy rates and demand charges in exchange for our ability to curtail load during peak times.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, HREC is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. HREC publishes a newsletter once a month that includes energy efficiency tips and information to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. HREC consistently shares the energy efficiency message on our website, in our bill stuffers, on Twitter, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to "get the facts" and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment - the cost to operate the product over its lifetime. A great example of this is a ground-source heat pump system for heating and air conditioning. While there is a premium over a conventional HVAC system upfront, the very low operating costs make is a very "energy wise" investment. As a member of the National Rural Electric Cooperative Association (NRECA), HREC has access to the

Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which HREC participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local businesses to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for HREC. HREC has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Hawkeye REC	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	39	$4,875	87,273	16,783	6,234	101	$14,460	294,545	67,290	21,038
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	25	$781	14,236	4,745	1,582	68	$1,700	38,721	13,290	4,303
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	64	$72,000	16,997,030	2,390,207	849,852	162	$124,600	43,023,733	7,276,853	2,151,186
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	64	$28,800	7,540,186	1,413,785	502,679	109	$37,343	12,841,878	2,709,752	856,125
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	4,000	$8,760	1,912,308	916,860	261,960	121	$486	57,847	9,364	7,924
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	3,700	$9,250	1,768,885	733,488	242,313	12,489	$12,632	5,970,703	3,884,668	817,904
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						390	$2,195	857,142	53,738	42,858
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	35	$438	47,148	7,803	2,875	1,156	$6,616	799,665	74,490	48,760
ENERGY STAR LED lighting	Rebate for LED lighting.						1,149	$3,791	1,538,120	118,172	85,451
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)						3	$45	7,278	3,465	1,485
LED Holiday Lighting	Rebate for holiday lighting.	379	$3,790	353,380	83,528	29,448	1,034	$2,282	964,101	359,133	80,343
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	515	$128,750	2,855,392	580,319	190,359	368	$155,781	2,036,195	377,854	135,746
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	49	$18,375	1,132,400	240,731	94,367	9	$2,700	207,992	40,443	17,333
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.						1	$300	22,444	1,870	1,870
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	1,250	$1,563	4,170,825	1,390,275	463,425	9	$20	30,030	11,865	3,337
Flow Restrictors - Shower	Incentive for low-flow shower head.	175	$1,094	1,107,225	300,533	110,723	8	$65	50,616	17,717	5,062
Pipe Insulation	Incentive for water pipe insulation.	250	$1,038	445,388	89,078	29,693					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	550	$34,375	1,343,100	355,200	122,100	605	$15,125	1,477,410	460,428	134,310
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	481	$15,031	622,539	157,076	56,594	401	$10,075	518,999	171,428	47,181
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	550	$17,188	869,963	168,720	57,998	681	$17,100	1,077,173	238,949	71,811
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	65	$1,219	184,415	42,321	15,368	115	$2,875	326,273	74,948	27,189
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	161	$5,031	179,604	33,095	11,974	47	$1,175	52,431	17,030	3,495
Appliance Recycling	Incentives for appliance recycling.	288	$17,688	2,787,836	856,776	310,440	509	$16,475	4,453,632	1,702,964	498,728
Smart Strip	Incentive for smart power supply strip.	205	$1,281	227,550	58,275	22,755	2	$10	2,220	777	222
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.						2	$1,000	66,600	4,440	2,220
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	105	$26,250	3,189,974	317,405	116,939					
Residential Total		**12,950**	**$397,575**	**47,836,654**	**10,157,002**	**3,499,676**	**19,539**	**$428,851**	**76,715,748**	**17,690,928**	**5,065,882**
Percentage of 5 year plan goal - Residential								**108%**	**160%**		**145%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Hawkeye REC	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	2,000	$4,380	1,086,912	905,760	301,920					
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	650	$7,313	905,050	435,120	141,414	6,921	$42,805	7,717,109	3,631,963	1,361,384
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	65	$1,219	153,434	79,487	31,313	84	$1,260	555,897	56,552	50,536
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	5	$625	15,485	3,097	1,032	46	$1,890	143,232	10,271	9,549
Air Cooled Chillers	Rebate for water cooled chillers.	5	$125	15,540	2,331	777					
Water Cooled Chillers	Rebate for air cooled chillers.	2	$75	10,656	2,664	533					
Geothermal Heat Pump	Rebate for geothermal heat pump.	15	$16,875	3,983,679	597,552	199,184	4	$1,050	929,525	92,953	46,476
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.						9	$1,350	1,060,339	117,815	70,689
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	35	$8,750	194,056	35,115	12,937	163	$26,822	901,664	229,353	60,111
Heat Pump Water Heater	Rebate for heat pump water heater.						2	$600	46,220	9,630	3,852
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	200	$12,500	2,137,860	427,572	142,524					
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.						32	$3,944	1,634,195	330,964	108,946
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	10	$6,250	1,471,028	294,206	98,069	12	$6,000	1,765,233	304,012	117,682
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	5	$1,875	829,753	165,951	55,317	2	$600	331,901	88,508	22,127
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	10	$600	262,670	65,668	21,889	49	$2,192	343,296	67,042	28,608
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.						66	$1,696	258,222	67,589	21,518
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	5	$938	276,806	55,361	18,454	10	$1,347	553,613	88,578	36,908
Efficient Livestock Waterers	Rebate for efficient livestock waterer.						66	$4,400	629,451	120,802	52,454
Premium Motors Rebate Program - Dairy Vacuum Pump	Rebate for premium motors for dairy vacuum pumps.	10	$625	96,104	16,017	5,339					
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	10	$3,750	2,220,433	391,841	130,614					
Hog Farrowing - Heat Lamp or Pad Controller	Rebate for controller for heat pad or lamp.	10	$625	77,913	14,252	4,751					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		70	$46,624	16,317,000	2,952,600	1,087,800	196	$18,431	4,058,850	1,021,128	304,932
Ag, Commercial and Industrial Total		**3,107**	**$113,148**	**30,054,378**	**6,444,593**	**2,253,866**	**7,662**	**$114,387**	**20,928,745**	**6,237,161**	**2,295,772**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**101%**	**70%**		**102%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	20,100	$512,620				16,540	$309,836			
Air Conditioning Load Control	Load control for air conditioning	10	$375				2	$75			
Space Heating Load Control (Interruptible)	Load control for space heating.	2,195	$1,581,805				439	$316,361			
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	Dual fuel for space heating and air conditioning.						2,481	$926,126			
Industrial Interruptible Price	Industrial Interruptible Price						425	$671,353			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	250	$250,000				68	$74,134			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	15	$3,750				8	$12,220			
Energy Audit Services - Residential *	Energy Audit Services - Residential	260	$52,000				33	$14,814			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	1,000	$5,000								
Member Information and Education	Member Information and Education	27,000	$80,000				27,149	$38,988			
Peak Alert	Peak Alert	27,000									
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	27,000	$79,135				27,149	$111,172			
TOTAL		**120,887**	**$3,075,408**	**77,891,032**	**16,601,595**	**5,753,542**	**101,495**	**$3,018,317**	**97,644,493**	**23,928,089**	**7,361,654**
Percentage of 5 year plan goal achieved								**98%**	**125%**		**128%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Hawkeye REC	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	5	$625	11,189	799	1	18	2,890	51,935	3,710	6
ENERGY STAR Qualified Room Air Conditioner	5	$156	2,847	316	0	12	$300	6,833	759	1
Geothermal Heat Pump	10	$11,250	2,655,786	132,789	15	32	$21,700	8,498,515	424,926	55
Air Source Heat Pump	10	$4,500	1,178,154	78,544	10	24	$8,640	2,827,570	188,505	27
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,000	$2,190	478,077	65,490	60					
Local CFL Rebate Program(s)	750	$1,875	358,558	49,118	45	9,602	$9,601	4,590,495	628,835	639
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	5	$63	6,735	411	0					
ENERGY STAR LED lighting						14	$28	18,741	1,041	1
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	64	$640	59,674	4,973	16	511	$1,022	476,456	39,705	142
Residential Water Heating (low income included)										
High Efficiency Water Heater	110	$27,500	609,890	40,659	6	95	$42,933	526,723	35,115	5
Heat Pump Water Heater - (Integrated)	5	$1,875	115,551	9,629	1	1	$300	23,110	1,926	0
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	250	$313	834,165	92,685	5					
Flow Restrictors - Shower	25	$156	158,175	15,818	1					
Pipe Insulation	50	$208	89,078	5,939	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	100	$6,250	244,200	22,200	8	181	$4,525	442,002	40,182	16
ENERGY STAR Qualified Dishwasher	75	$2,344	97,070	8,825	7	124	$3,100	160,488	14,590	12
ENERGY STAR Qualified Refrigerator	100	$3,125	158,175	10,545	1	168	$4,200	265,734	17,716	2
ENERGY STAR Qualified Dehumidifier	10	$188	28,372	2,364	0	19	$475	53,906	4,492	0
ENERGY STAR Qualified Freezer	25	$781	27,889	1,859	0	41	$1,025	45,738	3,049	0
Appliance Recycling	45	$2,750	436,357	48,620	8	117	$5,625	1,094,418	122,147	24
Smart Strip	25	$156	27,750	2,775						
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Building Shell - Existing Home Only										
Weatherization Rebates	15	$3,750	455,711	16,706	1					
Residential Total	**2,684**	**$70,694**	**8,033,400**	**611,063**	**188**	**10,959**	**$106,364**	**19,082,664**	**1,526,696**	**932**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Hawkeye REC	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	400	$876	217,382	60,384	24					
High Efficiency Interior Lighting	125	$1,406	174,048	27,195	0	892	$4,880	1,132,406	173,358	6
Exterior Lighting										
High Efficiency Exterior Lighting	7	$131	16,524	3,372	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0					
Air Cooled Chillers	1	$25	3,108	155	0					
Water Cooled Chillers	2	$75	10,656	533	1					
Geothermal Heat Pump	3	$3,375	796,736	39,837	44					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$1,250	27,722	1,848	0					
Heat Pump Water Heater										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	40	$2,500	427,572	28,505	4					
Variable Speed Drive Motor Incentive										
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10					
Dairy Heat Reclaimer	1	$375	165,951	11,063	5					
Livestock Ventilation Fans	2	$120	52,534	4,378	0					
Circulating Fans --- BESS Lab Ratings						8	$288	31,861	2,655	1
Scroll compressor (milk cooling)	1	$188	55,361	3,691	0					
Efficient Livestock Waterers						4	$200	38,148	3,179	
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$750	444,087	26,123	2					
Hog Farrowing - Heat Lamp or Pad Controller	2	$125	15,583	950						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	10	$7,300	2,331,000	155,400	78	2	$3,796	1,313,040	87,536	
Ag, Commercial and Industrial Total	**606**	**$19,996**	**5,054,786**	**384,322**	**170**	**906**	**$9,164**	**2,515,456**	**266,728**	**7**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	4,020	$102,524			2,231	4,020	$102,524			2,231
Air Conditioning Load Control	2	$75			2	2	$75			2
Space Heating Load Control (Interruptible)	439	$316,361			2,193	439	$316,361			2,193
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning										
Industrial Interruptible Price						74	$129,861			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	50	$50,000				37	$63,509			
Expert Energy Services - C&I	3	$750				2	$2,745			
Energy Audit Services - Residential *	52	$10,400				3	$4,119			
IV. Educational & Research Programs										
Model Housing Education	200	$1,000								
Member Information and Education	5,400	$16,000				5,420	$13,392			
Peak Alert	5,400									
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,400	$15,827				5,420	$20,572			
TOTAL	**24,256**	**$603,627**	**13,088,186**	**995,385**	**4,783**	**27,282**	**$768,686**	**21,598,120**	**1,793,424**	**5,364**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Hawkeye REC	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$875	15,664	1,119	2	29	$4,030	85,190	6,084	10
ENERGY STAR Qualified Room Air Conditioner	5	$156	2,847	316	0	17	$425	9,680	1,076	2
Geothermal Heat Pump	12	$13,500	3,186,943	159,347	18	68	$35,800	18,059,345	902,967	116
Air Source Heat Pump	12	$5,400	1,413,785	94,252	12	26	$9,360	3,063,200	204,213	29
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,000	$2,190	478,077	65,490	60					
Local CFL Rebate Program(s)	750	$1,875	358,558	49,118	45	2,764	$2,764	1,321,405	181,014	184
ENERGY STAR CFL/LED Fixtures						30	$150	65,934	3,297	1
T8 or better Lighting Fixtures	6	$75	8,083	493	0					
ENERGY STAR LED lighting						58	$116	77,642	4,313	3
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	70	$700	65,268	5,439	18	498	$996	464,335	38,695	138
Residential Water Heating (low income included)										
High Efficiency Water Heater	105	$26,250	582,167	38,811	5					
Heat Pump Water Heater - (Integrated)	8	$3,000	184,882	15,407	2					
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	250	$313	834,165	92,685	5	5	$5	16,683	1,854	
Flow Restrictors - Shower	30	$188	189,810	18,981	2	4	$20	25,308	2,531	
Pipe Insulation	50	$208	89,078	5,939	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	105	$6,563	256,410	23,310	8	140	$3,500	341,880	31,080	12
ENERGY STAR Qualified Dishwasher	85	$2,656	110,012	10,001	8	102	$2,550	132,015	12,001	10
ENERGY STAR Qualified Refrigerator	105	$3,281	166,084	11,072	1	173	$4,325	273,643	18,243	2
ENERGY STAR Qualified Dehumidifier	11	$206	31,209	2,601	0	21	$525	59,580	4,965	
ENERGY STAR Qualified Freezer	28	$875	31,235	2,082	0	6	$150	6,693	446	
Appliance Recycling	49	$3,000	472,101	52,592	9	157	$4,300	1,362,666	152,633	32
Smart Strip	30	$188	33,300	3,330		1	$5	1,110	111	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Building Shell - Existing Home Only										
Weatherization Rebates	18	$4,500	546,853	20,047	2					
Residential Total	**2,736**	**$75,998**	**9,056,530**	**672,431**	**198**	**4,099**	**$69,021**	**25,366,309**	**1,565,523**	**539**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Hawkeye REC	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	400	$876	217,382	60,384	24					
High Efficiency Interior Lighting	135	$1,519	187,972	29,371	0	1,965	$12,420	2,483,433	378,186	14
Exterior Lighting										
High Efficiency Exterior Lighting	10	$188	23,605	4,817	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0					
Air Cooled Chillers	1	$25	3,108	155	0					
Water Cooled Chillers										
Geothermal Heat Pump	3	$3,375	796,736	39,837	44					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	6	$1,500	33,267	2,218	0	151	$21,390	835,131	55,675	8
Heat Pump Water Heater						1	$300	23,110	1,926	
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	40	$2,500	427,572	28,505	4					
Variable Speed Drive Motor Incentive						3	$1,889	782,793	52,186	5
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10	4	$2,000	588,411	39,227	21
Dairy Heat Reclaimer	1	$375	165,951	11,063	5	2	$600	331,901	22,127	12
Livestock Ventilation Fans	2	$120	52,534	4,378	0	18	$432	93,506	7,792	3
Circulating Fans --- BESS Lab Ratings						35	$840	136,597	11,383	4
Scroll compressor (milk cooling)	1	$188	55,361	3,691	0	1	$300	55,361	3,691	
Efficient Livestock Waterers						7	$350	66,760	5,563	
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$750	444,087	26,123	2					
Hog Farrowing - Heat Lamp or Pad Controller	2	$125	15,583	950						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	12	$4,284	2,797,200	186,480	94	187	$5,383	548,550	59,844	
Ag, Commercial and Industrial Total	**620**	**$17,324**	**5,536,880**	**418,860**	**185**	**2,374**	**$45,904**	**5,945,553**	**637,600**	**67**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	4,020	$102,524			2,231	3,066				
Air Conditioning Load Control	2	$75			2					
Space Heating Load Control (Interruptible)	439	$316,361			2,193					
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning						439	$256,770			
Industrial Interruptible Price						89	$132,608			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	50	$50,000								
Expert Energy Services - C&I	3	$750								
Energy Audit Services - Residential *	52	$10,400				17	$5,695			
IV. Educational & Research Programs										
Model Housing Education	200	$1,000								
Member Information and Education	5,400	$16,000				5,420	$7,618			
Peak Alert	5,400									
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,400	$15,827				5,420	$21,749			
TOTAL	**24,322**	**$606,258**	**14,593,410**	**1,091,291**	**4,808**	**20,924**	**$539,365**	**31,311,862**	**2,203,123**	**606**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Hawkeye REC	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,000	17,902	1,279	2	24	3,430	70,987	5,071	8
ENERGY STAR Qualified Room Air Conditioner	5	$156	2,847	316	0	13	$325	7,403	823	1
Geothermal Heat Pump	13	$14,625	3,452,522	172,626	20	14	$15,200	3,718,100	185,905	24
Air Source Heat Pump	13	$5,850	1,531,600	102,107	13	26	$6,780	3,063,200	204,213	29
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,000	$2,190	478,077	65,490	60	11	$274	5,259	720	1
Local CFL Rebate Program(s)	750	$1,875	358,558	49,118	45	5	$145	2,390	327	
ENERGY STAR CFL/LED Fixtures						3	$260	6,593	330	
T8 or better Lighting Fixtures	7	$88	9,430	575	0					
ENERGY STAR LED lighting						8	$142	10,709	595	
Exterior Lighting										
High Efficiency Exterior Lighting						1	$15	2,426	495	
LED Holiday Lighting	75	$750	69,930	5,828	19	25	$264	23,310	1,943	7
Residential Water Heating (low income included)										
High Efficiency Water Heater	100	$25,000	554,445	36,963	5	95	$38,903	526,723	35,115	5
Heat Pump Water Heater - (Integrated)	10	$3,750	231,102	19,259	2	1	$300	23,110	1,926	
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	250	$313	834,165	92,685	5	4	$15	13,347	1,483	
Flow Restrictors - Shower	35	$219	221,445	22,145	2	4	$45	25,308	2,531	
Pipe Insulation	50	$208	89,078	5,939	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	110	$6,875	268,620	24,420	9	101	$2,525	246,642	22,422	9
ENERGY STAR Qualified Dishwasher	96	$3,000	124,249	11,295	9	84	$2,150	108,718	9,883	8
ENERGY STAR Qualified Refrigerator	110	$3,438	173,993	11,600	1	134	$3,425	211,955	14,130	1
ENERGY STAR Qualified Dehumidifier	13	$244	36,883	3,074	0	14	$350	39,720	3,310	
ENERGY STAR Qualified Freezer	32	$1,000	35,698	2,380	0					
Appliance Recycling	57	$3,500	551,082	61,367	10	96	$3,075	803,579	90,035	19
Smart Strip	40	$250	44,400	4,440		1	$5	1,110	111	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Building Shell - Existing Home Only										
Weatherization Rebates	21	$5,250	637,995	23,388	2					
Residential Total	**2,795**	**$79,579**	**9,724,019**	**716,291**	**206**	**664**	**$77,628**	**8,910,589**	**581,368**	**112**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Hawkeye REC	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	400	$876	217,382	60,384	24					
High Efficiency Interior Lighting	145	$1,631	201,896	31,546	0	32	$10,220	46,460	6,660	
Exterior Lighting										
High Efficiency Exterior Lighting	13	$244	30,687	6,263	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0					
Air Cooled Chillers	1	$25	3,108	155	0					
Water Cooled Chillers										
Geothermal Heat Pump	3	$3,375	796,736	39,837	44					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	7	$1,750	38,811	2,587	0					
Heat Pump Water Heater										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	40	$2,500	427,572	28,505	4					
Variable Speed Drive Motor Incentive						3	$885	366,662	24,444	2
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10	3	$1,500	441,308	29,421	16
Dairy Heat Reclaimer	1	$375	165,951	11,063	5					
Livestock Ventilation Fans	2	$120	52,534	4,378	0	1	$676	90,350	7,529	2
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)	1	$188	55,361	3,691	0	3	$747	166,084	11,072	1
Efficient Livestock Waterers						21	$2,150	200,280	16,690	
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$750	444,087	26,123	2					
Hog Farrowing - Heat Lamp or Pad Controller	2	$125	15,583	950						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	14	$10,220	3,263,400	217,560	109	3	$5,142	932,600	62,173	17
Ag, Commercial and Industrial Total	**636**	**$23,679**	**6,029,630**	**453,930**	**201**	**66**	**$21,320**	**2,243,744**	**157,989**	**38**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	4,020	$102,524			2,231	3,131				1,738
Air Conditioning Load Control	2	$75			2					
Space Heating Load Control (Interruptible)	439	$316,361			2,193					
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning						681	$196,260			4,535
Industrial Interruptible Price						91	$139,312			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	50	$50,000				15	$5,025			
Expert Energy Services - C&I	3	$750				2	$3,000			
Energy Audit Services - Residential *	52	$10,400				6	$1,500			
IV. Educational & Research Programs										
Model Housing Education	200	$1,000								
Member Information and Education	5,400	$16,000				5,443	$5,818			
Peak Alert	5,400									
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,400	$15,827				5,443	$22,183			
TOTAL	**24,397**	**$616,194**	**15,753,649**	**1,170,221**	**4,832**	**15,542**	**$472,046**	**11,154,333**	**739,357**	**6,423**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Hawkeye REC	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	9	$1,125	20,140	1,439	2	15	$2,320	42,269	3,019	5
ENERGY STAR Qualified Room Air Conditioner	5	$156	2,847	316	0	17	$425	9,680	1,076	2
Geothermal Heat Pump	14	$15,750	3,718,100	185,905	22	26	$23,400	6,905,044	345,252	44
Air Source Heat Pump	14	$6,300	1,649,416	109,961	14	10	$5,775	1,178,154	78,544	11
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,000	$2,190	478,077	65,490	60					
Local CFL Rebate Program(s)	750	$1,875	358,558	49,118	45	118	$122	56,413	7,728	8
ENERGY STAR CFL/LED Fixtures						3	$15	6,593	330	0
T8 or better Lighting Fixtures	8	$100	10,777	657	0	610	$3,740	421,969	25,730	7
ENERGY STAR LED lighting						194	$388	259,700	14,428	9
Exterior Lighting										
High Efficiency Exterior Lighting						2	$30	4,852	990	0
LED Holiday Lighting	80	$800	74,592	6,216	20					
Residential Water Heating (low income included)										
High Efficiency Water Heater	100	$25,000	554,445	36,963	5	85	$35,092	471,278	31,419	5
Heat Pump Water Heater - (Integrated)	12	$4,500	277,322	23,110	3	6	$1,800	138,661	11,555	1
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	250	$313	834,165	92,685	5					
Flow Restrictors - Shower	40	$250	253,080	25,308	2					
Pipe Insulation	50	$208	89,078	5,939	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	115	$7,188	280,830	25,530	9	123	$3,075	300,366	27,306	11
ENERGY STAR Qualified Dishwasher	107	$3,344	138,486	12,590	10	86	$2,150	111,306	10,119	9
ENERGY STAR Qualified Refrigerator	115	$3,594	181,901	12,127	1	126	$3,150	199,301	13,287	1
ENERGY STAR Qualified Dehumidifier	15	$281	42,557	3,546	0	35	$875	99,301	8,275	1
ENERGY STAR Qualified Freezer	36	$1,125	40,160	2,677	0					
Appliance Recycling	66	$4,063	640,872	71,344	12	80	$2,000	691,768	77,680	17
Smart Strip	50	$313	55,500	5,550						
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						2	$1,000	66,600	2,220	0
Building Shell - Existing Home Only										
Weatherization Rebates	24	$6,000	729,137	26,729	2					
Residential Total	**2,860**	**$84,473**	**10,430,039**	**763,199**	**214**	**1,538**	**$85,357**	**10,963,254**	**658,956**	**131**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Hawkeye REC	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	400	$876	217,382	60,384	24					
High Efficiency Interior Lighting	155	$1,744	215,820	33,722	0	2,098	$12,061	2,684,656	429,270	8
Exterior Lighting										
High Efficiency Exterior Lighting	16	$300	37,768	7,708	0	10	$150	66,178	6,016	
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0	4	$140	10,839	723	1
Air Cooled Chillers	1	$25	3,108	155	0					
Water Cooled Chillers										
Geothermal Heat Pump	3	$3,375	796,736	39,837	44	4	$1,050	929,525	46,476	57
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)						6	$900	706,892	47,126	65
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	8	$2,000	44,356	2,957	0	6	$2,890	33,267	2,218	0
Heat Pump Water Heater										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	40	$2,500	427,572	28,505	4					
Variable Speed Drive Motor Incentive						20	$600	248,585	16,572	2
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10	1	$500	147,103	9,807	5
Dairy Heat Reclaimer	1	$375	165,951	11,063	5					
Livestock Ventilation Fans	2	$120	52,534	4,378	0					
Circulating Fans --- BESS Lab Ratings						4	$112	15,611	1,301	0
Scroll compressor (milk cooling)	1	$188	55,361	3,691	0	5	$150	276,806	18,454	2
Efficient Livestock Waterers						7	$350	66,760	5,563	
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$750	444,087	26,123	2					
Hog Farrowing - Heat Lamp or Pad Controller	2	$125	15,583	950						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	16	$11,680	3,729,600	248,640	125	2	$1,513	932,600	62,173	17
Ag, Commercial and Industrial Total	**652**	**$25,557**	**6,522,380**	**489,001**	**216**	**2,166**	**$20,416**	**6,118,822**	**645,700**	**158**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	4,020	$102,524			2,231	3,153	$98,165			1,750
Air Conditioning Load Control	2	$75			2					
Space Heating Load Control (Interruptible)	439	$316,361			2,193					
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning						680	$237,820			4,529
Industrial Interruptible Price						91	$149,931			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	50	$50,000				11	$3,850			
Expert Energy Services - C&I	3	$750				2	$3,475			
Energy Audit Services - Residential *	52	$10,400				1	$2,000			
IV. Educational & Research Programs										
Model Housing Education	200	$1,000								
Member Information and Education	5,400	$16,000				5,433	$7,092			
Peak Alert	5,400									
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,400	$15,827				5,433	$23,020			
TOTAL	**24,478**	**$622,967**	**16,952,419**	**1,252,200**	**4,856**	**18,508**	**$631,126**	**17,082,076**	**1,304,656**	**6,568**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Hawkeye REC	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	10	$1,250	22,378	1,598	2	15	$1,790	44,165	3,155	5
ENERGY STAR Qualified Room Air Conditioner	5	$156	2,847	316	0	9	$225	5,125	569	1
Geothermal Heat Pump	15	$16,875	3,983,679	199,184	23	22	$28,500	5,842,729	292,136	38
Air Source Heat Pump	15	$6,750	1,767,231	117,815	15	23	$6,788	2,709,754	180,650	26
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)						110	$212	52,588	7,204	7
Local CFL Rebate Program(s)	700	$1,750	334,654	45,843	42					
ENERGY STAR CFL/LED Fixtures						354	$1,770	778,021	38,901	16
T8 or better Lighting Fixtures	9	$113	12,124	739	0	546	$2,876	377,697	23,030	6
ENERGY STAR LED lighting						875	$3,117	1,171,328	65,074	39
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	90	$900	83,916	6,993	23					
Residential Water Heating (low income included)										
High Efficiency Water Heater	100	$25,000	554,445	36,963	5	93	$38,853	511,471	34,098	5
Heat Pump Water Heater - (Integrated)	14	$5,250	323,543	26,962	3	1	$300	23,110	1,926	0
Solar Water Heaters (w/ Electric auxiliary tank)						1	$300	22,444	1,870	0
Flow Restrictors - Faucet	250	$313	834,165	92,685	5					
Flow Restrictors - Shower	45	$281	284,715	28,472	2					
Pipe Insulation	50	$208	89,078	5,939	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	120	$7,500	293,040	26,640	10	60	$1,500	146,520	13,320	5
ENERGY STAR Qualified Dishwasher	118	$3,688	152,723	13,884	11	5	$125	6,471	588	0
ENERGY STAR Qualified Refrigerator	120	$3,750	189,810	12,654	1	80	$2,000	126,540	8,436	1
ENERGY STAR Qualified Dehumidifier	16	$300	45,395	3,783	0	26	$650	73,766	6,147	1
ENERGY STAR Qualified Freezer	40	$1,250	44,622	2,975	0					
Appliance Recycling	71	$4,375	687,425	76,517	13	59	$1,475	501,202	56,234	12
Smart Strip	60	$375	66,600	6,660						
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Building Shell - Existing Home Only										
Weatherization Rebates	27	$6,750	820,279	30,070	2					
Residential Total	**1,875**	**$86,833**	**10,592,667**	**736,691**	**159**	**2,279**	**$90,481**	**12,392,932**	**733,339**	**163**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Hawkeye REC	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	400	$876	217,382	60,384	24					
High Efficiency Interior Lighting	90	$1,013	125,315	19,580	0	1,934	$3,224	1,370,153	373,910	6
Exterior Lighting										
High Efficiency Exterior Lighting	19	$356	44,850	9,153	0	74	$1,110	489,719	44,520	
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0	43	$1,750	132,392	8,826	15
Air Cooled Chillers	1	$25	3,108	155	0					
Water Cooled Chillers										
Geothermal Heat Pump	3	$3,375	796,736	39,837	44					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)						3	$450	353,446	23,563	32
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	9	$2,250	49,900	3,327	0	6	$2,542	33,267	2,218	0
Heat Pump Water Heater						1	$300	23,110	1,926	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	40	$2,500	427,572	28,505	4					
Variable Speed Drive Motor Incentive						6	$570	236,155	15,744	2
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10	4	$2,000	588,411	39,227	21
Dairy Heat Reclaimer	1	$375	165,951	11,063	5					
Livestock Ventilation Fans	2	$120	52,534	4,378	0	30	$1,084	159,440	13,287	4
Circulating Fans --- BESS Lab Ratings						19	$456	74,152	6,179	2
Scroll compressor (milk cooling)	1	$188	55,361	3,691	0	1	$150	55,361	3,691	0
Efficient Livestock Waterers						27	$1,350	257,502	21,459	
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$750	444,087	26,123	2					
Hog Farrowing - Heat Lamp or Pad Controller	2	$125	15,583	950						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	18	$13,140	4,195,800	279,720	140	2	$2,597	332,060	33,206	7
Ag, Commercial and Industrial Total	**593**	**$26,592**	**6,910,701**	**507,754**	**232**	**2,150**	**$17,583**	**4,105,170**	**587,755**	**91**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	4,020	$102,524			2,231	3,170	$109,147			1,759
Air Conditioning Load Control	2	$75			2					
Space Heating Load Control (Interruptible)	439	$316,361			2,193					
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning						681	$235,276			4,535
Industrial Interruptible Price						80	$119,641			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	50	$50,000				5	$1,750			
Expert Energy Services - C&I	3	$750				2	$3,000			
Energy Audit Services - Residential *	52	$10,400				6	$1,500			
IV. Educational & Research Programs										
Model Housing Education	200	$1,000								
Member Information and Education	5,400	$16,000				5,433	$5,068			
Peak Alert	5,400									
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,400	$15,827				5,433	$23,648			
TOTAL	**23,434**	**$626,362**	**17,503,368**	**1,244,445**	**4,817**	**19,239**	**$607,094**	**16,498,102**	**1,321,095**	**6,548**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Heartland Power Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Heartland Power Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Heartland Power Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Heartland Power Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Heartland Power Cooperative.

Heartland Power Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Heartland Power Cooperative offers programs for residential member-consumers in the form of

prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Heartland Power Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Heartland Power Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Heartland Power Cooperative also offers energy audits for all member-consumers and performs grain dryer audits to improve efficiency within the agricultural sector.

In addition to the rebate opportunities, Heartland Power Cooperative offers two demand response programs that help us to be both environmentally and fiscally responsible. These programs are water heater load control and air conditioning load control. These optional incentive programs allow member-consumers to receive a bill credit per year in exchange for our ability to curtail load during peak times.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Heartland Power Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Heartland Power Cooperative publishes a newsletter once a month and provides the Living With Energy In Iowa publication to all members. Both the newsletter and magazine offer many energy efficiency tips to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Heartland Power Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Heartland Power Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Heartland Power Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine

whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Heartland Power Cooperative. Heartland Power Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Heartland Power Cooperative	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	65	$9,625	165,346	32,501	11,810	116	$22,229	364,476	84,251	26,033
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	34	$1,063	19,361	5,884	2,151	37	$2,426	21,069	8,353	2,341
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	75	$84,375	19,918,395	2,987,759	995,920	173	$140,053	45,945,098	8,896,883	2,297,255
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	50	$22,500	5,890,770	1,178,154	392,718	52	$20,801	6,126,400	1,335,242	408,427
Heat Recovery Ventilators	Rebate for heat recovery ventilators.						2	$119	25,042	6,260	1,252
Residential Lighting (low income included)											
Interior Lighting											
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	27,151	$67,878	12,980,269	4,942,072	1,778,119	21,185	$33,442	10,128,062	4,464,390	1,387,406
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						316	$3,199	694,505	57,474	34,726
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	979	$12,238	1,318,807	213,071	80,415	649	$3,255	448,947	46,103	27,375
ENERGY STAR LED lighting	Rebate for LED lighting.	371	$928	496,643	67,528	27,591	659	$2,292	882,177	69,237	49,009
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	282	$5,288	327,930	214,228	72,729	372	$5,826	375,303	253,572	85,184
LED Holiday Lighting	Rebate for holiday lighting.	600	$6,000	559,440	132,090	46,620	247	$1,552	230,302	91,143	19,192
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	405	$101,250	2,245,502	467,582	149,700	325	$162,234	1,400,266	315,675	93,352
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	157	$58,875	3,628,301	797,302	302,358	20	$15,285	462,204	82,814	38,518
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	16	$6,000	359,107	69,203	29,926					
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	1,100	$1,375	3,670,326	1,386,568	407,814	8	$8	26,693	4,820	2,966
Flow Restrictors - Shower	Incentive for low-flow shower head.	867	$5,419	5,485,509	1,999,965	548,551	13	$65	82,251	11,389	8,225
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	320	$20,000	781,440	208,680	71,040	383	$16,682	935,286	297,924	85,026
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	141	$4,406	182,491	47,652	16,590	202	$9,846	261,440	81,420	23,767
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	220	$6,875	347,985	67,488	23,199	388	$20,736	613,720	132,551	40,914
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	270	$4,013	766,033	186,780	63,836	80	$3,872	226,972	58,633	18,914
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	60	$1,875	66,933	12,643	4,462	21	$525	23,427	7,585	1,562
Appliance Recycling	Incentives for appliance recycling.	292	$17,875	2,810,986	907,119	313,149	310	$16,781	2,532,641	843,551	284,945
Smart Strip	Incentive for smart power supply strip.	635	$3,969	704,850	281,829	70,485	3	$15	3,330	1,554	333
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	14	$10,500	466,200	41,070	15,540	2	$1,000	66,600	2,220	2,220
Additional Low Income											
Weatherization Rebates	Rebates for various insulation measures.	26	$6,500	981,684	91,187	35,470					
Residential Total		**34,130**	**$458,824**	**64,174,308**	**16,338,353**	**5,460,194**	**25,563**	**$482,243**	**71,876,210**	**17,153,042**	**4,938,943**
Percentage of 5 year plan goal - Residential								**105%**	**112%**		**90%**

Heartland Power Cooperative	Measure Description	5 Year Plan (2010-2014) Estimated Achievable Potential Goals: Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	5 Year Plan (2010-2014) Plan to Date Results: Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	2,500	$5,475	1,358,640	1,132,200	377,400					
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	840	$10,125	1,220,112	571,928	190,643	6,273	$35,140	10,792,107	2,104,683	1,226,099
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	150	$2,813	167,249	102,398	34,133	58	$870	383,834	51,138	34,894
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.						3,892	$126,103	12,053,135	1,673,360	803,543
Geothermal Heat Pump	Rebate for geothermal heat pump.	25	$28,125	6,639,465	995,920	331,973	22	$6,600	5,842,729	345,252	292,136
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	10	$4,500	1,178,154	235,631	78,544	78	$10,239	9,219,055	7,483,243	2,570,340
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	50	$12,500	277,223	55,445	18,482	14	$5,000	58,891	5,450	3,926
Ag/Commercial & Industrial Motors											
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	30	$11,250	9,795,195	1,959,039	653,013	249	$58,833	24,478,961	2,093,721	1,631,931
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.						6	$3,123	882,617	166,719	58,842
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	5	$1,875	829,753	165,951	55,317	1	$423	165,951	33,189	11,063
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	25	$1,500	95,904	23,976	7,992	86	$3,957	426,213	170,543	35,518
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.						21	$1,008	179,422	34,286	17,143
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.						6	$1,629	332,168	73,814	22,144
Efficient Livestock Waterers	Rebate for efficient livestock waterer.						18	$1,023	171,668	60,402	14,306
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.						7	$2,090	1,554,303	457,148	91,430
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program							140	$36,655	13,659,986	4,298,775	1,169,854
Ag, Commercial and Industrial Total		**3,635**	**$78,163**	**21,561,695**	**5,242,486**	**1,747,495**	**10,871**	**$292,693**	**80,201,040**	**19,051,722**	**7,983,168**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**374%**	**372%**		**457%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	13,300	$114,800				11,683	$135,197			
Water Heater Storage	Water heater storage.	650	$91,650				1,683	$37,844			
Air Conditioning Load Control	Load control for air conditioning						698	$7,542			
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	Dual fuel for space heating and air conditioning.						1,132	$12,395			
Dual-Fuel Space Heating	Duel fuel space heating	4,745	$1,870,011				3,642	$928,479			
Crop Drying											
Off Peak Pricing	Crop drying off peak pricing.	70	$13,844				61	$7,129			
Irrigation											
Load Control	Irrigation load control.						21	$644			
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price						91	$113,505			
Industrial Interruptible Price	Industrial Interruptible Price						19	$1,205			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	75	$22,500				7	$3,774			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.						1	$200			
Energy Audit Services - Residential *	Energy Audit Services - Residential	220	$1,000				22	$5,225			
IV. Educational & Research Programs											
Domestic Water Heater Enhancement	Domestic Water Heater Enhancement										
Member Information and Education	Member Information and Education	26,215	$185,000				21,224	$257,947			
Peak Alert	Peak Alert	18,215	$22,000				21,224	$27,478			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	26,215	$125,000				12,739	$32,378			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	26,215	$107,591				21,224	$115,401			
TOTAL		**153,685**	**$3,090,382**	**85,736,003**	**21,580,839**	**7,207,690**	**131,905**	**$2,461,280**	**152,077,249**	**36,204,764**	**12,922,110**
Percentage of 5 year plan goal achieved								**80%**	**177%**		**179%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Heartland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	10	$1,438	24,864	1,776	3	26	4,150	76,519	5,466	9
ENERGY STAR Qualified Room Air Conditioner	5	$156	2,847	316	0	7	$175	3,986	443	1
Geothermal Heat Pump	15	$16,875	3,983,679	199,184	23	64	$40,525	16,997,030	849,852	109
Air Source Heat Pump	10	$4,500	1,178,154	78,544	10	10	$3,540	1,178,154	78,544	11
Heat Recovery Ventilators						2	$119	25,042	1,252	
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	4,259	$10,648	2,036,130	278,922	256	7,676	$7,675	3,669,719	502,701	511
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	128	$1,600	172,428	10,514	4					
ENERGY STAR LED lighting	33	$83	44,176	2,454	1	3	$6	4,016	223	0
Exterior Lighting										
High Efficiency Exterior Lighting	55	$1,031	62,190	13,853	1					
LED Holiday Lighting	100	$1,000	93,240	7,770	25	193	$386	179,953	14,996	54
Residential Water Heating (low income included)										
High Efficiency Water Heater	91	$22,750	504,545	33,636	5	94	$76,571	419,197	27,946	4
Heat Pump Water Heater - (Integrated)	20	$7,500	462,204	38,517	4	2	$2,716	46,220	3,852	0
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	400	$500	1,334,664	148,296	8					
Flow Restrictors - Shower	400	$2,500	2,530,800	253,080	20					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	60	$3,750	146,520	13,320	5	136	$3,400	332,112	30,192	12
ENERGY STAR Qualified Dishwasher	25	$781	32,357	2,942	2	55	$1,375	71,184	6,471	5
ENERGY STAR Qualified Refrigerator	40	$1,250	63,270	4,218	0	94	$2,350	148,685	9,912	1
ENERGY STAR Qualified Dehumidifier	50	$938	141,858	11,822	1	21	$525	59,580	4,965	0
ENERGY STAR Qualified Freezer	10	$313	11,156	744	0	18	$450	20,080	1,339	0
Appliance Recycling	52	$3,188	504,528	56,195	9	36	$2,644	351,668	39,074	7
Smart Strip	400	$2,500	444,000	44,400		2	$10	2,220	222	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,500	66,600	2,220	0					
Additional Low Income										
Weatherization Rebates	3	$750	106,727	3,924	1					
Residential Total	**6,168**	**$85,549**	**13,946,936**	**1,206,645**	**378**	**8,439**	**$146,617**	**23,585,366**	**1,577,450**	**726**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Heartland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	500	$1,095	271,728	75,480	30					
High Efficiency Interior Lighting	168	$2,025	244,022	38,129	1	348	$2,155	445,733	69,646	2
Exterior Lighting										
High Efficiency Exterior Lighting	30	$563	33,450	6,827	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning										
Geothermal Heat Pump	5	$5,625	1,327,893	66,395	74					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$900	235,631	15,709	20					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1					
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	6	$2,250	1,959,039	130,603	2					
Agricultural										
Dairy Pre-coolers Incentive										
Dairy Heat Reclaimer	1	$375	165,951	11,063	5					
Livestock Ventilation Fans	5	$300	19,181	1,598	1	78	$2,608	399,760	33,313	11
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)						2	$660	110,723	7,382	1
Efficient Livestock Waterers						13	$650	123,983	10,332	
Variable Speed Drive Motor - Dairy Vacuum Pump						7	$2,090	1,554,303	91,430	8
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program						2	$3,864	997,320	66,488	8
Ag, Commercial and Industrial Total	**727**	**$15,633**	**4,312,339**	**349,499**	**132**	**450**	**$12,027**	**3,631,821**	**278,590**	**30**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	2,620	$98,000			1,310	2,581	$37,840			1,432
Water Heater Storage	130	$18,330			130	10	$5,500			11
Air Conditioning Load Control						116	$1,751			90
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning										
Dual-Fuel Space Heating	949	$374,002			5,694	562	$444,076			3,743
Crop Drying										
Off Peak Pricing	14	$2,769			28	10				22
Irrigation										
Load Control						16				
Commercial and Industrial Time-of-Day Price						28				
Industrial Interruptible Price						19	$1,205			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	15	$4,500								
Expert Energy Services - C&I										
Energy Audit Services - Residential *	44	$200				2	$300			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement										
Member Information and Education	5,243	$31,000				4,203	$94,454			
Peak Alert	3,603	$4,000				4,203	$6,275			
Living with Energy in Iowa	5,243	$24,000				4,203	$12,324			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,243	$18,800				4,203	$21,308			
TOTAL	**29,999**	**$676,782**	**18,259,275**	**1,556,145**	**7,673**	**29,045**	**$783,677**	**27,217,187**	**1,856,040**	**6,055**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Heartland Power Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	10	$1,438	24,864	1,776	3	32	$6,080	109,589	7,827	14
ENERGY STAR Qualified Room Air Conditioner	5	$156	2,847	316	0	13	$325	7,403	823	1
Geothermal Heat Pump	15	$16,875	3,983,679	199,184	23	60	$34,900	15,934,716	796,736	103
Air Source Heat Pump	10	$4,500	1,178,154	78,544	10	16	$5,160	1,885,046	125,670	18
Heat Recovery Ventilators										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	4,812	$12,030	2,300,507	315,138	289	1,099	$1,099	525,407	71,974	73
ENERGY STAR CFL/LED Fixtures						56	$280	123,077	6,154	2
T8 or better Lighting Fixtures	161	$2,013	216,882	13,225	5					
ENERGY STAR LED lighting	54	$135	72,288	4,016	2	49	$98	65,594	3,644	2
Exterior Lighting										
High Efficiency Exterior Lighting	55	$1,031	62,190	13,853	1					
LED Holiday Lighting	110	$1,100	102,564	8,547	28	46	$92	42,890	3,574	13
Residential Water Heating (low income included)										
High Efficiency Water Heater	86	$21,500	476,823	31,788	4	75	$23,100	324,259	21,618	3
Heat Pump Water Heater - (Integrated)	26	$9,750	600,865	50,072	5	2	$1,000	46,220	3,852	
Solar Water Heaters (w/ Electric auxiliary tank)	3	$1,125	67,333	5,611	1					
Flow Restrictors - Faucet	172	$215	573,906	63,767	3					
Flow Restrictors - Shower	115	$719	727,605	72,761	6					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	62	$3,875	151,404	13,764	5	80	$2,000	195,360	17,760	7
ENERGY STAR Qualified Dishwasher	26	$813	33,651	3,059	2	46	$1,150	59,536	5,412	5
ENERGY STAR Qualified Refrigerator	42	$1,313	66,434	4,429	0	86	$2,150	136,031	9,069	1
ENERGY STAR Qualified Dehumidifier	52	$975	147,532	12,294	1	15	$375	42,557	3,546	
ENERGY STAR Qualified Freezer	11	$344	12,271	818	0	3	$75	3,347	223	
Appliance Recycling	55	$3,375	533,210	59,382	10	87	$2,200	708,687	79,628	17
Smart Strip	44	$275	48,840	4,884		1	$5	1,110	111	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,500	66,600	2,220	0					
Additional Low Income										
Weatherization Rebates	4	$1,000	158,508	5,650	1					
Residential Total	**5,932**	**$86,055**	**11,608,955**	**965,097**	**400**	**1,766**	**$80,089**	**20,210,829**	**1,157,621**	**259**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Heartland Power Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	500	$1,095	271,728	75,480	30					
High Efficiency Interior Lighting	168	$2,025	244,022	38,129	1	454	$2,590	840,543	107,097	3
Exterior Lighting										
High Efficiency Exterior Lighting	30	$563	33,450	6,827	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning						71	$2,840	219,880	14,659	24
Geothermal Heat Pump	5	$5,625	1,327,893	66,395	74					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$900	235,631	15,709	20					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1					
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	6	$2,250	1,959,039	130,603	2	4	$2,135	884,563	58,971	6
Agricultural										
Dairy Pre-coolers Incentive						3	$1,500	441,308	29,421	16
Dairy Heat Reclaimer	1	$375	165,951	11,063	5					
Livestock Ventilation Fans	5	$300	19,181	1,598	1					
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)										
Efficient Livestock Waterers										
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program						96	$22,788	8,191,376	805,280	
Ag, Commercial and Industrial Total	**727**	**$15,633**	**4,312,339**	**349,499**	**132**	**628**	**$31,853**	**10,577,670**	**1,015,428**	**49**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	2,640	$4,200			1,320	2,643	$9,905			1,467
Water Heater Storage	130	$18,330			130	422	$19,623			468
Air Conditioning Load Control						186	$697			145
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning										
Dual-Fuel Space Heating	949	$374,002			5,694	1,114	$466,800			7,419
Crop Drying										
Off Peak Pricing	14	$2,769			28	9	$1,548			20
Irrigation										
Load Control						2	$148			
Commercial and Industrial Time-of-Day Price						28	$64,450			
Industrial Interruptible Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	15	$4,500								
Expert Energy Services - C&I										
Energy Audit Services - Residential *	44	$200				5	$2,279			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement										
Member Information and Education	5,243	$34,000				4,191	$88,303			
Peak Alert	3,623	$4,200				4,191	$8,247			
Living with Energy in Iowa	5,243	$24,500				4,191	$11,780			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,243	$20,625				4,191	$21,862			
TOTAL	**29,803**	**$589,014**	**15,921,294**	**1,314,596**	**7,704**	**23,567**	**$807,584**	**30,788,499**	**2,173,049**	**9,827**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Heartland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	15	$2,250	38,539	2,753	4	23	6,229	68,096	4,864	8
ENERGY STAR Qualified Room Air Conditioner	8	$250	4,555	506	1	12	$1,801	6,833	759	1
Geothermal Heat Pump	15	$16,875	3,983,679	199,184	23	23	$35,228	6,108,308	305,415	39
Air Source Heat Pump	10	$4,500	1,178,154	78,544	10	11	$5,013	1,295,969	86,398	12
Heat Recovery Ventilators										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	5,409	$13,523	2,585,918	354,235	325	918	$2,306	438,875	60,120	61
ENERGY STAR CFL/LED Fixtures						3	$1,634	6,593	330	
T8 or better Lighting Fixtures	195	$2,438	262,684	16,017	6					
ENERGY STAR LED lighting	74	$185	99,061	5,503	3	4	$538	5,355	297	
Exterior Lighting										
High Efficiency Exterior Lighting	57	$1,069	67,042	14,843	1	370	$5,796	370,451	84,194	4
LED Holiday Lighting	120	$1,200	111,888	9,324	30	8	$1,074	7,459	622	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	81	$20,250	449,100	29,940	4	55	$28,313	244,589	16,306	2
Heat Pump Water Heater - (Integrated)	31	$11,625	716,416	59,701	7	3	$2,469	69,331	5,778	1
Solar Water Heaters (w/ Electric auxiliary tank)	4	$1,500	89,777	7,481	1					
Flow Restrictors - Faucet	174	$218	580,579	64,509	3					
Flow Restrictors - Shower	116	$725	733,932	73,393	6					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	64	$4,000	156,288	14,208	5	58	$8,607	141,636	12,876	5
ENERGY STAR Qualified Dishwasher	28	$875	36,239	3,294	3	39	$5,771	50,476	4,589	4
ENERGY STAR Qualified Refrigerator	44	$1,375	69,597	4,640	0	81	$13,061	128,122	8,541	1
ENERGY STAR Qualified Dehumidifier	54	$1,013	153,207	12,767	1	14	$2,222	39,720	3,310	
ENERGY STAR Qualified Freezer	12	$375	13,387	892	0					
Appliance Recycling	58	$3,563	561,891	62,568	11	56	$8,662	469,969	52,832	11
Smart Strip	54	$338	59,940	5,994						
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	3	$2,250	99,900	3,330	1					
Additional Low Income										
Weatherization Rebates	5	$1,250	185,981	6,749	1					
Residential Total	**6,631**	**$91,644**	**12,237,753**	**1,030,377**	**444**	**1,678**	**$128,724**	**9,451,782**	**647,231**	**151**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Heartland Power Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	500	$1,095	271,728	75,480	30					
High Efficiency Interior Lighting	168	$2,025	244,022	38,129	1	22	$8,175	44,868	5,754	
Exterior Lighting										
High Efficiency Exterior Lighting	30	$563	33,450	6,827	0					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning						1,400	$56,123	4,335,660	289,044	482
Geothermal Heat Pump	5	$5,625	1,327,893	66,395	74					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$900	235,631	15,709	20	62	$7,839	7,334,009	2,444,670	674
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1					
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	6	$2,250	1,959,039	130,603	2	6	$2,448	1,118,630	74,575	7
Agricultural										
Dairy Pre-coolers Incentive						1	$623	147,103	9,807	5
Dairy Heat Reclaimer	1	$375	165,951	11,063	5	1	$423	165,951	11,063	6
Livestock Ventilation Fans	5	$300	19,181	1,598	1	3	$1,173			
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)						3	$819	166,084	11,072	1
Efficient Livestock Waterers						1	$173	9,537	795	
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program						41	$9,737	2,235,645	149,043	17
Ag, Commercial and Industrial Total	**727**	**$15,633**	**4,312,339**	**349,499**	**132**	**1,540**	**$87,533**	**15,557,487**	**2,995,823**	**1,192**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	2,660	$4,200			1,330	2,214	$33,512			1,229
Water Heater Storage	130	$18,330			130	427	$6,463			474
Air Conditioning Load Control						197	$2,982			153
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning										
Dual-Fuel Space Heating	949	$374,002			5,694	959	$14,516			6,387
Crop Drying										
Off Peak Pricing	14	$2,769			28	14	$2,769			31
Irrigation										
Load Control						1	$490			
Commercial and Industrial Time-of-Day Price						35	$49,055			
Industrial Interruptible Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	15	$4,500				3	$1,574			
Expert Energy Services - C&I										
Energy Audit Services - Residential *	44	$200				2	$1,096			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement										
Member Information and Education	5,243	$37,000				4,345	$51,970			
Peak Alert	3,643	$4,400				4,345	$6,336			
Living with Energy in Iowa	5,243	$25,000				4,345	$8,274			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,243	$21,640				4,345	$22,877			
TOTAL	**30,542**	**$599,317**	**16,550,092**	**1,379,877**	**7,758**	**24,450**	**$418,171**	**25,009,269**	**3,643,054**	**9,617**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Heartland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	15	$2,250	38,539	2,753	4	15	$2,880	44,040	3,146	5
ENERGY STAR Qualified Room Air Conditioner	8	$250	4,555	506	1	4	$100	2,278	253	0
Geothermal Heat Pump	15	$16,875	3,983,679	199,184	23	15	$15,300	3,983,679	199,184	26
Air Source Heat Pump	10	$4,500	1,178,154	78,544	10	8	$4,013	942,523	62,835	9
Heat Recovery Ventilators										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	6,022	$15,055	2,878,980	394,381	361	11,147	$21,967	5,329,124	730,017	742
ENERGY STAR CFL/LED Fixtures						33	$165	72,527	3,626	1
T8 or better Lighting Fixtures	230	$2,875	309,832	18,892	7	444	$2,415	307,138	18,728	5
ENERGY STAR LED lighting	95	$238	127,173	7,065	4	105	$210	140,559	7,809	5
Exterior Lighting										
High Efficiency Exterior Lighting	57	$1,069	67,042	14,843	1					
LED Holiday Lighting	130	$1,300	121,212	10,101	33					
Residential Water Heating (low income included)										
High Efficiency Water Heater	76	$19,000	421,378	28,092	4	47	$16,550	196,070	13,071	2
Heat Pump Water Heater - (Integrated)	37	$13,875	855,077	71,256	8	3	$2,100	69,331	5,778	1
Solar Water Heaters (w/ Electric auxiliary tank)	4	$1,500	89,777	7,481	1					
Flow Restrictors - Faucet	176	$220	587,252	65,250	4	5	$5	16,683	1,854	0
Flow Restrictors - Shower	117	$731	740,259	74,026	6	5	$25	31,635	3,164	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	66	$4,125	161,172	14,652	5	59	$1,425	144,078	13,098	5
ENERGY STAR Qualified Dishwasher	30	$938	38,828	3,530	3	54	$1,350	69,890	6,354	5
ENERGY STAR Qualified Refrigerator	46	$1,438	72,761	4,851	0	73	$1,825	115,468	7,698	1
ENERGY STAR Qualified Dehumidifier	56		158,881	13,240	1	11	$275	31,209	2,601	0
ENERGY STAR Qualified Freezer	13	$406	14,502	967	0					
Appliance Recycling	62	$3,781	591,338	65,908	11	73	$1,825	506,983	57,761	16
Smart Strip	64	$400	71,040	7,104						
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	3	$2,250	99,900	3,330	1					
Additional Low Income										
Weatherization Rebates	7	$1,750	265,235	9,574	1					
Residential Total	**7,339**	**$94,825**	**12,876,565**	**1,095,530**	**488**	**12,101**	**$72,430**	**12,003,216**	**1,136,975**	**824**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Heartland Power Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	500	$1,095	271,728	75,480	30					
High Efficiency Interior Lighting	168	$2,025	244,022	38,129	1	1,354	$6,231	2,368,061	267,201	2
Exterior Lighting										
High Efficiency Exterior Lighting	30	$563	33,450	6,827	0	27	$405	178,681	16,244	
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning						1,200	$48,000	3,716,280	247,752	413
Geothermal Heat Pump	5	$5,625	1,327,893	66,395	74	4	$1,200	1,062,314	53,116	65
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$900	235,631	15,709	20	3	$450	353,446	23,563	32
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1	6	$1,800	22,860	1,524	0
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	6	$2,250	1,959,039	130,603	2	164	$4,915	2,035,907	135,727	13
Agricultural										
Dairy Pre-coolers Incentive										
Dairy Heat Reclaimer	1	$375	165,951	11,063	5					
Livestock Ventilation Fans	5	$300	19,181	1,598	1	4	$144	21,259	1,772	1
Circulating Fans --- BESS Lab Ratings						21	$1,008	179,422	17,143	3
Scroll compressor (milk cooling)										
Efficient Livestock Waterers						4	$200	38,148	3,179	
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program						1	$266	2,235,645	149,043	17
Ag, Commercial and Industrial Total	**727**	**$15,633**	**4,312,339**	**349,499**	**132**	**2,788**	**$64,619**	**12,212,025**	**916,264**	**546**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	2,680	$4,200			1,340	2,121	$47,428			1,177
Water Heater Storage	130	$18,330			130	408	$4,983			453
Air Conditioning Load Control						163	$2,002			127
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning						969	$11,895			6,454
Dual-Fuel Space Heating	949	$374,002			5,694					
Crop Drying										
Off Peak Pricing	14	$2,769			28	14	$2,769			31
Irrigation										
Load Control										
Commercial and Industrial Time-of-Day Price										
Industrial Interruptible Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	15	$4,500				2	$600			
Expert Energy Services - C&I										
Energy Audit Services - Residential *	44	$200				1	$350			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement										
Member Information and Education	5,243	$40,000				4,334	$12,626			
Peak Alert	3,663	$4,600				4,334	$5,932			
Living with Energy in Iowa	5,243	$25,500								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,243	$22,705				4,334	$23,903			
TOTAL	**31,290**	**$607,264**	**17,188,904**	**1,445,029**	**7,812**	**31,569**	**$249,537**	**24,215,241**	**2,053,239**	**9,611**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Heartland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	15	$2,250	38,539	2,753	4	20	$2,890	66,231	4,731	8
ENERGY STAR Qualified Room Air Conditioner	8	$250	4,555	506	1	1	$25	569	63	0
Geothermal Heat Pump	15	$16,875	3,983,679	199,184	23	11	$14,100	2,921,365	146,068	19
Air Source Heat Pump	10	$4,500	1,178,154	78,544	10	7	$3,075	824,708	54,981	8
Heat Recovery Ventilators										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	6,649	$16,623	3,178,734	435,443	399	345	$395	164,937	22,594	23
ENERGY STAR CFL/LED Fixtures						224	$1,120	492,307	24,615	10
T8 or better Lighting Fixtures	265	$3,313	356,980	21,767	8	205	$840	141,809	8,647	2
ENERGY STAR LED lighting	115	$288	153,946	8,553	5	498	$1,440	666,653	37,036	22
Exterior Lighting										
High Efficiency Exterior Lighting	58	$1,088	69,467	15,338	1	2	$30	4,852	990	0
LED Holiday Lighting	140	$1,400	130,536	10,878	35					
Residential Water Heating (low income included)										
High Efficiency Water Heater	71	$17,750	393,656	26,244	4	54	$17,700	216,150	14,410	2
Heat Pump Water Heater - (Integrated)	43	$16,125	993,739	82,812	9	10	$7,000	231,102	19,259	2
Solar Water Heaters (w/ Electric auxiliary tank)	5	$1,875	112,221	9,352	1					
Flow Restrictors - Faucet	178	$223	593,925	65,992	4	3	$3	10,010	1,112	0
Flow Restrictors - Shower	119	$744	752,913	75,291	6	8	$40	50,616	5,062	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	68	$4,250	166,056	15,096	5	50	$1,250	122,100	11,100	4
ENERGY STAR Qualified Dishwasher	32	$1,000	41,416	3,765	3	8	$200	10,354	941	1
ENERGY STAR Qualified Refrigerator	48	$1,500	75,924	5,062	0	54	$1,350	85,415	5,694	1
ENERGY STAR Qualified Dehumidifier	58	$1,088	164,555	13,713	1	19	$475	53,906	4,492	0
ENERGY STAR Qualified Freezer	14	$438	15,618	1,041	0					
Appliance Recycling	65	$3,969	620,019	69,095	12	58	$1,450	495,334	55,650	12
Smart Strip	73	$456	81,030	8,103						
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	4	$3,000	133,200	4,440	1	2	$1,000	66,600	2,220	0
Additional Low Income										
Weatherization Rebates	7	$1,750	265,235	9,574	1					
Residential Total	**8,060**	**$100,751**	**13,504,098**	**1,162,544**	**532**	**1,579**	**$54,383**	**6,625,018**	**419,665**	**116**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Heartland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	500	$1,095	271,728	75,480	30					
High Efficiency Interior Lighting	168	$2,025	244,022	38,129	1	4,095	$15,989	7,092,902	776,401	12
Exterior Lighting										
High Efficiency Exterior Lighting	30	$563	33,450	6,827	0	31	$465	205,152	18,650	
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning						1,221	$19,140	3,781,315	252,088	420
Geothermal Heat Pump	5	$5,625	1,327,893	66,395	74	18	$5,400	4,780,415	239,021	295
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$900	235,631	15,709	20	13	$1,950	1,531,600	102,107	141
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1	8	$3,200	36,031	2,402	0
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	6	$2,250	1,959,039	130,603	2	75	$49,335	20,439,861	1,362,657	131
Agricultural										
Dairy Pre-coolers Incentive						2	$1,000	294,206	19,614	11
Dairy Heat Reclaimer	1	$375	165,951	11,063	5					
Livestock Ventilation Fans	5	$300	19,181	1,598	1	1	$32	5,195	433	0
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)						1	$150	55,361	3,691	0
Efficient Livestock Waterers										
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**727**	**$15,633**	**4,312,339**	**349,499**	**132**	**5,465**	**$96,661**	**38,222,037**	**2,777,063**	**1,010**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	2,700	$4,200			1,350	2,124	$6,512			1,179
Water Heater Storage	130	$18,330			130	416	$1,275			462
Air Conditioning Load Control						36	$110			28
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning						163	$500			1,086
Dual-Fuel Space Heating	949	$374,002			5,694	1,007	$3,087			6,707
Crop Drying										
Off Peak Pricing	14	$2,769			28	14	$43			31
Irrigation										
Load Control						2	$6			
Commercial and Industrial Time-of-Day Price										
Industrial Interruptible Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	15	$4,500				2	$1,600			
Expert Energy Services - C&I						1	$200			
Energy Audit Services - Residential *	44	$200				12	$1,200			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement										
Member Information and Education	5,243	$43,000				4,151	$10,594			
Peak Alert	3,683	$4,800				4,151	$688			
Living with Energy in Iowa	5,243	$26,000								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,243	$23,821				4,151	$25,451			
TOTAL	**32,051**	**$618,006**	**17,816,437**	**1,512,043**	**7,867**	**23,274**	**$202,310**	**44,847,054**	**3,196,728**	**10,618**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Iowa Lakes Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about Dec. 31, 2009 on behalf of Iowa Lakes Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Iowa Lakes Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-owners. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Iowa Lakes Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Iowa Lakes Electric Cooperative.

Iowa Lakes Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-owners in various classes of electric service. Iowa Lakes Electric Cooperative offers programs for residential member-owners in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Iowa Lakes Electric Cooperative offers similar programs for the small commercial member-owners but alters them to allow for equipment used in a commercial setting. For the large industrial member-owners of Iowa Lakes Electric Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-owners in our portfolio, Iowa Lakes Electric Cooperative currently has 21 commercial and industrial accounts with have over 1,000 KVA, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-owners allows us to work directly with the member-owner to

determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-owner. Iowa Lakes Electric Cooperative also offers energy audits for all member-owners.

In addition to the rebate opportunities, Iowa Lakes Electric Cooperative offers demand response programs that help us to be both environmentally and fiscally responsible. These optional incentive programs allow member-owners to receive a bill credit per year in exchange for our ability to curtail load during peak times.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Iowa Lakes Electric Cooperative is dedicated to the education of our member-owners to help them make wise decisions when it comes to energy efficiency. Iowa Lakes Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Iowa Lakes Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, on our Facebook page, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our member-owners to "get the facts" and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages member-owners to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Iowa Lakes Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Iowa Lakes Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-owner, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-owners we serve. From that assessment we developed programs that matched our member-owners' energy usage. We also worked with local business to leverage local resources and pave the way for our member-owners to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Iowa Lakes Electric Cooperative. Iowa Lakes Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Iowa Lakes Electric Cooperative	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	149	$25,197	585,982	116,826	41,856	116	$25,291	551,168	134,610	39,372
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	15	$453	11,838	3,683	1,315					
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	169	$305,537	44,882,783	6,586,349	2,244,139	197	$368,380	52,318,985	7,808,010	2,615,949
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	455	$294,892	53,606,007	10,564,114	3,573,734	333	$243,195	38,525,636	8,003,592	2,568,375
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	40	$6,260	500,832	75,125	25,042	15	$2,296	187,812	27,545	9,390
Residential Contractor Rebates	Incentive for heat pump installs						219	$69,523			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	21,540	$47,406	10,297,779	3,752,642	1,410,655	14,284	$28,043	6,828,851	3,887,683	935,459
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	7,981	$29,929	3,815,533	1,399,259	522,676	33,926	$107,790	16,219,240	9,777,920	2,221,814
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						950	$2,484	2,087,910	222,197	104,395
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.						385	$6,151	319,025	61,022	19,453
ENERGY STAR LED lighting	Rebate for LED lighting.	664	$2,490	888,870	118,025	49,382	448	$4,878	599,720	47,448	33,318
Exterior Lighting											
LED Holiday Lighting	Rebate for holiday lighting.	1,360	$3,400	1,268,064	296,037	105,672	1,117	$5,442	1,041,491	430,303	86,791
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	1,101	$220,296	5,130,414	1,021,279	342,028	1,184	$389,301	5,998,529	1,226,738	399,903
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	65	$24,375	1,251,803	325,469	125,180		$10			
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.							$81			
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.							$2			
Drain Water Heat Recovery System	Rebate for drain water heat recovery system.										
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	2,306	$19,550	7,694,338	2,558,106	854,926	1,193	$4,321	3,980,636	1,751,003	442,292
Flow Restrictors - Shower	Incentive for low-flow shower head.	1,249	$20,669	7,902,423	2,365,665	790,242	602	$4,356	3,808,854	1,511,522	380,886
Tank Insulation	Incentive for water heater tank insulation.	140	$1,084	239,316	71,795	23,932					
Pipe Insulation	Incentive for water pipe insulation.	140	$1,084	249,417	49,883	16,628					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	142	$9,062	346,764	86,802	31,524	784	$59,153	1,929,302	564,158	175,391
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	536	$16,751	693,723	168,254	63,066	435	$19,445	563,004	156,838	51,181
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	424	$13,254	670,662	119,264	44,711	584	$26,376	923,743	192,552	61,583
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.							$19			
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	629	$19,660	701,681	124,793	46,779	113	$4,837	126,057	23,128	8,403
Appliance Recycling	Incentives for appliance recycling.	1,011	$55,861	8,852,575	2,950,744	985,321	556	$52,584	4,602,656	1,710,328	517,669
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	20	$25,000	666,000	59,940	22,200	2	$2,398	66,600	6,660	2,220
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	251	$12,620	2,552,625	803,416	283,625	710	$21,749	7,220,572	1,870,117	802,286
Weatherization Rebates	Rebates for various insulation measures.						38	$15,704	1,253,412	126,438	42,146
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	903	$330,236	29,123,986	2,620,813	1,025,934	169	$55,496	5,723,504	570,024	192,183
Residential Total		**41,290**	**$1,485,064**	**181,933,415**	**36,238,284**	**12,630,566**	**58,360**	**$1,519,303**	**154,876,707**	**40,109,833**	**11,710,459**
Percentage of 5 year plan goal - Residential								**102%**	**85%**		**93%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Iowa Lakes Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	1,194	$2,687	648,886	494,696	180,246	374	$637	203,253	193,836	56,460
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	1,585	$22,257	3,143,051	1,495,865	497,227	5,251	$92,947	21,856,260	8,370,037	3,175,265
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	100	$250	117,749	147,186	49,062	6	$180	34,021	6,943	6,943
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	2	$2,468	34,721	5,208	1,736					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	5	$3,085	130,869	26,174	8,725					
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	65	$15,120	349,983	72,305	23,332					
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	150	$58,380	1,603,395	320,679	106,893					
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	50	$13,895	18,644,670	3,728,934	1,242,978	258	$18,789	4,511,751	860,617	300,784
Agricultural											
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	60	$3,096	383,616	106,560	31,968					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	60	$3,600	287,712	79,920	23,976					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	20	$1,250	190,742	55,633	15,895	5	$266	38,575	6,949	3,215
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program							65	$47,438	13,360,868	4,494,732	1,136,940
Ag, Commercial and Industrial Total		**3,291**	**$126,088**	**25,535,394**	**6,533,160**	**2,182,038**	**5,959**	**$160,257**	**40,004,727**	**13,933,114**	**4,679,606**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**127%**	**157%**		**214%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	3,711	$367,367				14,628	$492,582			
Air Conditioning Load Control	Load control for air conditioning	2,441	$169,430				2,292	$225,705			
Space Heating Load Control (Interruptible)	Load control for space heating.	3,006	$218,011				543	$41,063			
Dual-Fuel Space Heating	Duel fuel space heating	340	$27,302				68	$5,142			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	30	$6,000					$71,889			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	20	$6,000					$197,398			
Energy Audit Services - Residential *	Energy Audit Services - Residential	110	$11,000				30	$709			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.							$13,555			
Member Information and Education	Member Information and Education	47,270	$43,800				47,895	$331,735			
Peak Alert	Peak Alert	47,270	$750								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,735	$207,290				47,795	$257,465			
TOTAL		**154,514**	**$2,668,102**	**207,468,810**	**42,771,445**	**14,812,604**	**177,570**	**$3,316,805**	**194,881,434**	**54,042,947**	**16,390,065**
Percentage of 5 year plan goal achieved								**124%**	**94%**		**111%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Iowa Lakes Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	24	$3,841	93,520	6,680	7	40	7,432	190,940	13,639	16
ENERGY STAR Qualified Room Air Conditioner	3	$93	2,368	263	0					
Geothermal Heat Pump	32	$58,538	8,498,515	424,926	49	39	$66,258	10,357,565	517,878	67
Air Source Heat Pump	86	$56,092	10,132,124	675,475	88	73	$56,680	8,600,524	573,368	83
Heat Recovery Ventilators	8	$1,252	100,166	5,008		2	$321	25,042	1,252	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,846	$6,264	1,360,607	186,385	171	7,411	$13,363	3,543,029	485,346	494
Local CFL Rebate Program(s)	1,081	$4,054	516,801	70,795	65	16,228	$47,055	7,758,234	1,062,772	1,081
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures						102	$113	70,559	4,302	1
ENERGY STAR LED lighting	52	$195	69,610	3,867	2		$5			
Exterior Lighting										
LED Holiday Lighting	218	$545	203,263	16,939	55	1,070	$4,303	997,668	83,139	297
Residential Water Heating (low income included)										
High Efficiency Water Heater	217	$43,529	1,011,671	67,445	9	189	$56,612	952,164	63,478	9
Heat Pump Water Heater - (Add-On)	8	$3,000	154,068	15,407	2		$8			
Heat Pump Water Heater - (Integrated)							$8			
Solar Water Heaters (w/ Electric auxiliary tank)										
Drain Water Heat Recovery System										
Flow Restrictors - Faucet	457	$3,875	1,524,854	169,428	9	357	$1,773	1,191,188	132,354	8
Flow Restrictors - Shower	248	$4,104	1,569,096	156,910	12	184	$1,802	1,164,168	116,417	10
Tank Insulation	28	$217	47,863	4,786	0					
Pipe Insulation	28	$217	49,883	3,326	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	21	$1,230	51,282	4,662	2	180	$14,588	454,334	41,303	16
ENERGY STAR Qualified Dishwasher	72	$2,251	93,187	8,472	6	90	$4,765	116,483	10,589	9
ENERGY STAR Qualified Refrigerator	57	$1,783	90,160	6,011	1	113	$6,025	178,738	11,916	1
ENERGY STAR Qualified Dehumidifier										
ENERGY STAR Qualified Freezer	84	$2,626	93,706	6,247	1	18	$993	20,080	1,339	0
Appliance Recycling	203	$11,220	1,773,168	197,359	34	110	$7,103	940,958	105,572	23
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	3	$3,750	99,900	3,330	1		$10			
Additional Low Income										
Energy Efficiency Kits	41	$2,132	416,963	46,329	5	65	$2,237	661,038	73,449	9
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	100	$36,479	3,216,292	113,511	6	33	$12,675	1,044,133	35,132	4
Residential Total	**5,917**	**$247,285**	**31,169,067**	**2,193,559**	**525**	**26,304**	**$304,127**	**38,266,843**	**3,333,245**	**2,128**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Iowa Lakes Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	178	$407	96,735	26,871	11					
High Efficiency Interior Lighting	282	$6,713	803,239	114,246	2	1,721	$20,145	8,318,415	1,112,036	19
Exterior Lighting										
High Efficiency Exterior Lighting	20	$50	23,550	9,812	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	1	$617	26,174	1,745	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	17	$3,524	83,849	5,590	1					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	30	$11,676	320,679	21,379	3					
Variable Speed Drive Motor Incentive	10	$1,779	3,728,934	248,596	22					
Agricultural										
Livestock Ventilation Fans	20	$1,200	127,872	10,656	3					
Circulating Fans --- BESS Lab Ratings	20	$1,200	95,904	7,992	2					
Efficient Livestock Waterers	5	$313	47,686	3,974		1	$50	9,537	795	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program						19	$13,122	11,514,255	767,617	88
Ag, Commercial and Industrial Total	**583**	**$27,479**	**5,354,622**	**450,860**	**43**	**1,741**	**$33,317**	**19,842,208**	**1,880,448**	**107**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	937	$69,195			469	915	$69,195			508
Air Conditioning Load Control	442	$31,913			309	422	$31,913			328
Space Heating Load Control (Interruptible)	561	$41,063			2,525	543	$41,063			2,712
Dual-Fuel Space Heating	68	$5,142			408	68	$5,142			453
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	6	$1,200								
Expert Energy Services - C&I	4	$1,200					$64,600			
Energy Audit Services - Residential *	20	$2,000				6	$100			
IV. Educational & Research Programs										
Model Housing Education							$3,597			
Member Information and Education	9,454	$8,760				9,462	$62,780			
Peak Alert	9,454	$150								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,143	$41,458				9,462	$45,754			
TOTAL	**28,589**	**$476,845**	**36,523,689**	**2,644,418**	**4,279**	**48,923**	**$661,590**	**58,109,051**	**5,213,692**	**6,236**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Iowa Lakes Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	27	$4,477	106,247	7,589	8	19	$5,280	98,586	7,042	9
ENERGY STAR Qualified Room Air Conditioner	2	$68	1,578	175	0					
Geothermal Heat Pump	32	$56,727	8,498,515	424,926	49	36	$73,438	9,560,830	478,041	62
Air Source Heat Pump	90	$58,121	10,603,386	706,892	92	87	$61,052	10,249,940	683,329	99
Heat Recovery Ventilators	8	$1,252	100,166	5,008			$149			
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	3,577	$7,871	1,710,081	234,258	215	2,745	$6,130	1,312,321	179,770	183
Local CFL Rebate Program(s)	1,339	$5,021	640,145	87,691	80	16,102	$56,001	7,697,996	1,054,520	1,072
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures						133	$4,389	118,872	7,249	2
ENERGY STAR LED lighting	92	$345	123,157	6,842	4		$17			
Exterior Lighting										
LED Holiday Lighting	245	$613	228,438	19,037	61	47	$1,125	43,823	3,652	13
Residential Water Heating (low income included)										
High Efficiency Water Heater	219	$43,952	1,020,678	68,045	9	228	$69,886	1,172,560	78,171	11
Heat Pump Water Heater - (Add-On)	10	$3,750	192,585	19,259	2					
Heat Pump Water Heater - (Integrated)							$57			
Solar Water Heaters (w/ Electric auxiliary tank)										
Drain Water Heat Recovery System										
Flow Restrictors - Faucet	460	$3,900	1,534,864	170,540	9	430	$2,496	1,434,764	159,418	10
Flow Restrictors - Shower	249	$4,120	1,575,423	157,542	12	215	$2,496	1,360,305	136,031	12
Tank Insulation	28	$217	47,863	4,786	0					
Pipe Insulation	28	$217	49,883	3,326	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	25	$1,620	61,050	5,550	2	179	$15,010	437,118	39,738	16
ENERGY STAR Qualified Dishwasher	89	$2,778	115,189	10,472	8	84	$4,473	108,718	9,883	8
ENERGY STAR Qualified Refrigerator	70	$2,191	110,723	7,382	1	126	$6,698	199,301	13,287	1
ENERGY STAR Qualified Dehumidifier										
ENERGY STAR Qualified Freezer	105	$3,283	117,133	7,809	1	19	$1,027	21,195	1,413	
Appliance Recycling	200	$10,959	1,751,980	195,005	33	168	$15,504	1,374,837	154,734	35
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	3	$3,750	99,900	3,330	1		$314			
Additional Low Income										
Energy Efficiency Kits	46	$2,345	467,812	51,979	6	195	$5,172	1,983,115	220,346	28
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	140	$51,380	4,547,065	160,075	9	69	$20,809	2,085,251	70,126	6
Residential Total	**7,084**	**$268,956**	**33,703,862**	**2,357,518**	**603**	**20,882**	**$351,523**	**39,259,532**	**3,296,750**	**1,567**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Iowa Lakes Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	198	$447	107,604	29,890	12	162	$286	88,040	24,456	11
High Efficiency Interior Lighting	270	$4,199	565,386	88,283	1		$2,295			
Exterior Lighting										
High Efficiency Exterior Lighting	20	$50	23,550	9,812	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,234	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	1	$617	26,174	1,745	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	12	$2,899	66,533	4,436	1					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	30	$11,676	320,679	21,379	3					
Variable Speed Drive Motor Incentive	10	$3,029	3,728,934	248,596	22	10	$11,400	2,361,553	157,437	6
Agricultural										
Livestock Ventilation Fans	10	$600	63,936	5,328	2					
Circulating Fans --- BESS Lab Ratings	10	$600	47,952	3,996	1					
Efficient Livestock Waterers	5	$313	47,686	3,974						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**567**	**$25,664**	**5,015,794**	**418,306**	**41**	**172**	**$13,981**	**2,449,593**	**181,893**	**17**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	659	$71,271			330	960	$99,183			533
Air Conditioning Load Control	465	$32,870			326	474	$48,971			368
Space Heating Load Control (Interruptible)	581	$42,295			2,615					
Dual-Fuel Space Heating	68	$5,297			408					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	6	$1,200								
Expert Energy Services - C&I	4	$1,200					$60,909			
Energy Audit Services - Residential *	21	$2,100				12	$567			
IV. Educational & Research Programs										
Model Housing Education							$2,762			
Member Information and Education	9,454	$8,760				9,518	$69,216			
Peak Alert	9,454	$150								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,145	$41,458				9,518	$47,865			
TOTAL	**29,508**	**$501,221**	**38,719,656**	**2,775,824**	**4,322**	**41,536**	**$694,977**	**41,709,125**	**3,478,643**	**2,485**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr.

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Iowa Lakes Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	29	$4,864	113,349	8,096	9	20	4,823	93,359	6,671	7
ENERGY STAR Qualified Room Air Conditioner	3	$83	2,368	263	0					
Geothermal Heat Pump	34	$61,621	9,029,672	451,484	52	46	$92,705	12,216,616	610,831	79
Air Source Heat Pump	91	$58,884	10,721,201	714,747	93	53	$40,127	5,537,324	369,155	53
Heat Recovery Ventilators	8	$1,252	100,166	5,008		10	$1,426	125,208	6,260	
Residential Contractor Rebates						78	$15,600			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	4,302	$9,469	2,056,687	281,738	258	3,600	$7,093	1,721,077	235,764	240
Local CFL Rebate Program(s)	1,594	$5,978	762,055	104,391	96	624	$1,521	298,320	40,866	42
ENERGY STAR CFL/LED Fixtures						536		1,178,021	58,901	24
T8 or better Lighting Fixtures						1	$47	692	42	
ENERGY STAR LED lighting	133	$499	178,042	9,891	5		$128			
Exterior Lighting										
LED Holiday Lighting	272	$680	253,613	21,134	68		$8			
Residential Water Heating (low income included)										
High Efficiency Water Heater	219	$43,994	1,020,678	68,045	9	393	$111,420	2,004,144	133,610	20
Heat Pump Water Heater - (Add-On)	13	$4,875	250,361	25,036	3					
Heat Pump Water Heater - (Integrated)							$5			
Solar Water Heaters (w/ Electric auxiliary tank)										
Drain Water Heat Recovery System										
Flow Restrictors - Faucet	461	$3,908	1,538,200	170,911	9	406	$32	1,354,684	150,520	9
Flow Restrictors - Shower	250	$4,137	1,581,750	158,175	13	203	$32	1,284,381	128,438	11
Tank Insulation	28	$217	47,863	4,786	0					
Pipe Insulation	28	$217	49,883	3,326	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	29	$1,733	70,818	6,438	2	149	$10,368	363,858	33,078	13
ENERGY STAR Qualified Dishwasher	107	$3,348	138,486	12,590	10	87	$3,751	112,601	10,236	9
ENERGY STAR Qualified Refrigerator	85	$2,662	134,449	8,963	1	141	$6,082	223,027	14,868	2
ENERGY STAR Qualified Dehumidifier										
ENERGY STAR Qualified Freezer	126	$3,941	140,559	9,371	1	20	$852	22,311	1,487	
Appliance Recycling	202	$11,183	1,769,852	196,991	34	107	$11,225	910,922	102,370	23
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	4	$5,000	133,200	4,440	1	2	$2,029	66,600	2,220	
Additional Low Income										
Energy Efficiency Kits	51	$2,558	518,661	57,629	7	50	$889	508,491	56,499	7
Weatherization Rebates						38	$15,704	1,253,412	42,146	5
Building Shell - Existing Home Only										
Weatherization Rebates	180	$66,082	5,801,987	204,426	11					
Residential Total	**8,249**	**$297,183**	**36,413,900**	**2,527,880**	**682**	**6,564**	**$325,867**	**29,275,048**	**2,003,962**	**544**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Iowa Lakes Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	219	$487	119,017	33,060	13	212	$351	115,213	32,004	14
High Efficiency Interior Lighting	302	$3,679	548,726	89,546	1	1,955	$18,372	1,755,032	270,202	76
Exterior Lighting										
High Efficiency Exterior Lighting	20	$50	23,550	9,812	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	1	$617	26,174	1,745	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	12	$2,899	66,533	4,436	1					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	30	$11,676	320,679	21,379	3					
Variable Speed Drive Motor Incentive	10	$3,029	3,728,934	248,596	22					
Agricultural										
Livestock Ventilation Fans	10	$600	63,936	5,328	2					
Circulating Fans --- BESS Lab Ratings	10	$600	47,952	3,996	1					
Efficient Livestock Waterers	5	$313	47,686	3,974						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**619**	**$23,950**	**4,993,186**	**421,871**	**43**	**2,167**	**$18,723**	**1,870,245**	**302,206**	**90**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	681	$73,409			341	3,824	$110,569			2,122
Air Conditioning Load Control	488	$33,856			342	459	$44,576			357
Space Heating Load Control (Interruptible)	601	$43,564			2,705					
Dual-Fuel Space Heating	68	$5,456			408					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	6	$1,200					$23,625			
Expert Energy Services - C&I	4	$1,200					$23,625			
Energy Audit Services - Residential *	22	$2,200				12	$25			
IV. Educational & Research Programs										
Model Housing Education							$1,816			
Member Information and Education	9,454	$8,760				9,610	$69,012			
Peak Alert	9,454	$150								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,147	$41,458				9,610	$50,357			
TOTAL	**30,793**	**$532,386**	**41,407,086**	**2,949,751**	**4,519**	**32,246**	**$668,195**	**31,145,293**	**2,306,168**	**3,113**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Iowa Lakes Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	33	$5,689	130,070	9,291	10	19	$4,384	87,024	6,216	7
ENERGY STAR Qualified Room Air Conditioner	3	$97	2,368	263	0					
Geothermal Heat Pump	35	$64,364	9,295,251	464,763	54	35	$60,869	9,295,251	464,763	60
Air Source Heat Pump	94	$60,826	11,074,648	738,310	96	45	$36,396	5,301,693	353,446	51
Heat Recovery Ventilators	8	$1,252	100,166	5,008		1	$150	12,521	626	
Residential Contractor Rebates						60	$26,162			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	5,042	$11,097	2,410,464	330,201	303					
Local CFL Rebate Program(s)	1,856	$6,960	887,311	121,549	111	912	$2,831	436,006	59,727	61
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures						41	$936	41,469	2,529	1
ENERGY STAR LED lighting	173	$649	231,588	12,866	7	190	$3,695	254,345	14,130	8
Exterior Lighting										
LED Holiday Lighting	299	$748	278,788	23,232	75		$6			
Residential Water Heating (low income included)										
High Efficiency Water Heater	223	$44,389	1,038,694	69,246	9	214	$89,211	1,067,881	71,192	11
Heat Pump Water Heater - (Add-On)	16	$6,000	308,136	30,814	3		$2			
Heat Pump Water Heater - (Integrated)							$11			
Solar Water Heaters (w/ Electric auxiliary tank)							$2			
Drain Water Heat Recovery System										
Flow Restrictors - Faucet	464	$3,933	1,548,210	172,023	9		$20			
Flow Restrictors - Shower	251	$4,154	1,588,077	158,808	13		$26			
Tank Insulation	28	$217	47,863	4,786	0					
Pipe Insulation	28	$217	49,883	3,326	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	32	$2,036	78,144	7,104	3	172	$12,874	420,024	38,184	15
ENERGY STAR Qualified Dishwasher	125	$3,907	161,783	14,708	11	112	$4,617	144,957	13,178	11
ENERGY STAR Qualified Refrigerator	99	$3,090	156,593	10,440	1	130	$5,335	205,628	13,709	1
ENERGY STAR Qualified Dehumidifier							$19			
ENERGY STAR Qualified Freezer	146	$4,560	162,870	10,858	1	29	$1,138	32,351	2,157	0
Appliance Recycling	202	$11,187	1,769,852	196,991	34	109	$12,549	901,215	101,428	23
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	5	$6,250	166,500	5,550	1		$45			
Additional Low Income										
Energy Efficiency Kits	56	$2,771	569,510	63,279	7		$1,991			
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	222	$81,017	7,146,285	251,757	13	21	$7,939	803,579	26,937	2
Residential Total	**9,440**	**$325,408**	**39,203,054**	**2,705,171**	**763**	**2,090**	**$271,208**	**19,003,943**	**1,168,222**	**252**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Iowa Lakes Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	339	$777	184,232	51,175	20					
High Efficiency Interior Lighting	342	$3,760	586,501	97,716	1	1,271	$18,822	1,468,592	206,225	46
Exterior Lighting										
High Efficiency Exterior Lighting	20	$50	23,550	9,812	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,234	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	1	$617	26,174	1,745	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	12	$2,899	66,533	4,436	1					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	30	$11,676	320,679	21,379	3					
Variable Speed Drive Motor Incentive	10	$3,029	3,728,934	248,596	22	188	$5,589	1,312,836	87,522	40
Agricultural										
Livestock Ventilation Fans	10	$600	63,936	5,328	2					
Circulating Fans --- BESS Lab Ratings	10	$600	47,952	3,996	1					
Efficient Livestock Waterers	5	$313	47,686	3,974		1	$66	6,660	555	1
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program						1	$33,641	1,436,623	287,325	81
Ag, Commercial and Industrial Total	**780**	**$25,554**	**5,113,537**	**449,024**	**50**	**1,461**	**$58,118**	**4,224,711**	**581,627**	**168**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	705	$75,611			353	4,378	$105,821			547
Air Conditioning Load Control	511	$34,872			358	473	$50,764			368
Space Heating Load Control (Interruptible)	621	$44,871			2,795					
Dual-Fuel Space Heating	68	$5,619			408					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	6	$1,200					$26,346			
Expert Energy Services - C&I	4	$1,200					$26,346			
Energy Audit Services - Residential *	23	$2,300					$17			
IV. Educational & Research Programs										
Model Housing Education							$1,750			
Member Information and Education	9,454	$8,760				9,611	$64,803			
Peak Alert	9,454	$150								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,149	$41,458				9,611	$55,718			
TOTAL	**32,215**	**$567,004**	**44,316,591**	**3,154,195**	**4,725**	**27,624**	**$660,891**	**23,228,654**	**1,749,848**	**1,334**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Iowa Lakes Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	36	$6,327	142,797	10,200	11	18	$3,372	81,259	5,804	7
ENERGY STAR Qualified Room Air Conditioner	4	$112	3,157	351	0					
Geothermal Heat Pump	36	$64,288	9,560,830	478,041	55	41	$75,110	10,888,723	544,436	70
Air Source Heat Pump	94	$60,969	11,074,648	738,310	96	75	$48,940	8,836,155	589,077	85
Heat Recovery Ventilators	8	$1,252	100,166	5,008		2	$250	25,042	1,252	
Residential Contractor Rebates						81	$27,761			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	5,773	$12,705	2,759,939	378,074	346	528	$1,457	252,425	34,579	35
Local CFL Rebate Program(s)	2,111	$7,916	1,009,221	138,249	127	60	$382	28,685	3,929	4
ENERGY STAR CFL/LED Fixtures						414	$2,484	909,889	45,494	18
T8 or better Lighting Fixtures						108	$666	87,434	5,331	2
ENERGY STAR LED lighting	214	$803	286,473	15,915	9	258	$1,033	345,374	19,187	11
Exterior Lighting										
LED Holiday Lighting	326	$815	303,962	25,330	82					
Residential Water Heating (low income included)										
High Efficiency Water Heater	223	$44,432	1,038,694	69,246	9	160	$62,172	801,781	53,452	8
Heat Pump Water Heater - (Add-On)	18	$6,750	346,653	34,665	4					
Heat Pump Water Heater - (Integrated)										
Solar Water Heaters (w/ Electric auxiliary tank)										
Drain Water Heat Recovery System										
Flow Restrictors - Faucet	464	$3,933	1,548,210	172,023	9					
Flow Restrictors - Shower	251	$4,154	1,588,077	158,808	13					
Tank Insulation	28	$217	47,863	4,786	0					
Pipe Insulation	28	$217	49,883	3,326	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	35	$2,443	85,470	7,770	3	104	$6,313	253,968	23,088	9
ENERGY STAR Qualified Dishwasher	143	$4,467	185,079	16,825	13	62	$1,839	80,244	7,295	6
ENERGY STAR Qualified Refrigerator	113	$3,529	178,738	11,916	1	74	$2,236	117,050	7,803	1
ENERGY STAR Qualified Dehumidifier										
ENERGY STAR Qualified Freezer	168	$5,250	187,412	12,494	2	27	$827	30,120	2,008	0
Appliance Recycling	204	$11,312	1,787,724	198,976	34	62	$6,203	474,725	53,564	13
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	5	$6,250	166,500	5,550	1					
Additional Low Income										
Energy Efficiency Kits	57	$2,814	579,680	64,409	7	400	$11,460	4,067,928	451,992	58
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	261	$95,279	8,412,357	296,165	16	46	$14,073	1,790,541	59,988	5
Residential Total	**10,600**	**$346,233**	**41,443,533**	**2,846,438**	**838**	**2,520**	**$266,578**	**29,071,340**	**1,908,281**	**332**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Iowa Lakes Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	260	$569	141,299	39,250	16					
High Efficiency Interior Lighting	389	$3,906	639,199	107,437	2	304	$33,313	10,314,220	1,586,803	231
Exterior Lighting										
High Efficiency Exterior Lighting	20	$50	23,550	9,812	0	6	$180	34,021	6,943	2
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	1	$617	26,174	1,745	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	12	$2,899	66,533	4,436	1					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	30	$11,676	320,679	21,379	3					
Variable Speed Drive Motor Incentive	10	$3,029	3,728,934	248,596	22	60	$1,800	837,362	55,824	14
Agricultural										
Livestock Ventilation Fans	10	$96	63,936	5,328	2					
Circulating Fans --- BESS Lab Ratings	10	$600	47,952	3,996	1					
Efficient Livestock Waterers						3	$150	22,378	1,865	2
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program						45	$675	409,990	81,998	11
Ag, Commercial and Industrial Total	**742**	**$23,442**	**5,058,256**	**441,978**	**45**	**418**	**$36,118**	**11,617,970**	**1,733,433**	**260**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	729	$77,880			365	4,551	$107,814			561
Air Conditioning Load Control	535	$35,918			375	464	$49,481			361
Space Heating Load Control (Interruptible)	642	$46,217			2,889					
Dual-Fuel Space Heating	68	$5,788			408					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	6	$1,200					$21,918			
Expert Energy Services - C&I	4	$1,200					$21,918			
Energy Audit Services - Residential *	24	$2,400								
IV. Educational & Research Programs										
Model Housing Education							$3,630			
Member Information and Education	9,454	$8,760				9,694	$65,924			
Peak Alert	9,454	$150								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,151	$41,458				9,594	$57,771			
TOTAL	**33,409**	**$590,646**	**46,501,788**	**3,288,416**	**4,920**	**27,241**	**$631,152**	**40,689,310**	**3,641,714**	**1,514**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

Linn County Rural Electric Cooperative

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In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Linn County Rural Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Linn County Rural Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Linn County Rural Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Linn County Rural Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Linn County Rural Electric Cooperative.

Linn County Rural Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Linn County Rural Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Linn County Rural Electric Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Linn County Rural Electric Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio (7 members with 12 month average demands of 1,000 kW to 2,500 kW and 17 members between 500 kW to 1,000 KW), prescriptive rebates are a challenge to design because each is unique. Providing both prescriptive and custom rebate programs for the larger member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Linn County Rural Electric Cooperative also offers energy evaluations for all member-consumers.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Linn County Rural Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Linn County Rural Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Linn County Rural Electric Cooperative uses its website and mobile page to convey the energy efficiency message, forms, usage data and more. In our latest End Use Survey, 89% of our members have a computer and 84% have high speed internet. Through energy education outreach to our local schools, each year we interact with over 3,000 students. We encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. Geothermal heat pumps is one of our best successes going from less than 10 units per year in the early 1980’s to over 200 units per year. In the future we hope to achieve the same successes with heat pump water heaters. As a member of the National Rural Electric Cooperative Association (NRECA), Linn County Rural Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Linn County Rural Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process, each program was reviewed by a qualified independent third-party to

determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs, our members will find it a little easier to participate.

Since original design we have allowed members that do not have electric water heaters to participate in the Energy Star Dishwasher and Energy Star Clothes Washer Programs at lower incentive amount. 210 accounts with propane water heaters and 813 with natural gas water heaters participated. No attempt has been made to analyze these gas incentives savings only to promote Energy Star units to all groups.

In order to access Linn County Rural Electric Cooperatives success we must look at the climate for energy efficiency in 2010. Federal tax credits of over $1000 per member were available from the federal government. Stimulus dollars also poured into state making it a perfect storm for members to participate in programs. This is not the case in 2011 to 2014 and has caused a slowed of program activity as the area continues its economic recovery. The cost of natural gas has also remained low for the past several years. As energy efficiency standards have increased the range of kwh saving has narrowed reducing the cost effectiveness of appliance programs for both the member and Linn County Rural Electric Cooperative.

This filing marks the end of this 5 year plan for Linn County Rural Electric Cooperative. Linn County Rural Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Linn County Rural Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	1,639	$245,914	7,122,134	1,500,575	508,724	1,684	$255,534	7,345,752	1,585,214	524,696
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	500	$16,235	441,391	147,130	49,043	44	$2,314	38,843	15,008	4,316
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	757	$1,546,943	199,612,154	28,359,692	9,980,608	738	$1,404,642	194,338,385	28,175,111	9,716,919
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	122	$110,830	14,271,181	2,737,259	951,412	119	$104,120	13,627,477	2,536,668	908,498
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	331	$53,691	4,114,889	589,262	205,744	224	$45,068	7,974,069	1,183,678	398,703
Residential Contractor Rebates	Incentive for heat pump installs	879	$175,800				701	$174,805			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	16,346	$42,492	7,759,029	3,307,571	1,062,881	176,797	$342,781	75,918,737	23,958,121	10,399,827
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	21,340	$55,473	10,129,553	4,318,042	1,387,610	6,057	$32,494	2,984,326	1,474,834	408,812
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.	2,718	$28,205	5,931,105	831,184	296,555	76	$1,757	165,844	20,732	8,293
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	1,420	$18,552	917,386	158,678	55,938	2,287	$40,204	2,442,869	176,020	148,956
ENERGY STAR LED lighting	Rebate for LED lighting.	524	$20,395	696,465	109,506	38,693	9,944	$121,427	13,216,894	1,256,697	734,272
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	400	$7,780	1,198,203	183,059	66,567	27	$802	80,879	10,815	4,493
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	700	$16,354	762,151	894,222	298,074	541	$19,290	1,090,560	702,203	247,854
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	1,143	$149,382	3,962,419	779,876	264,161	1,144	$211,285	3,973,198	858,305	264,880
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	50	$19,482	956,072	286,822	95,607	7	$2,926	133,850	66,925	13,385
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	281	$181,775	6,447,748	1,290,697	537,312	198	$127,629	4,543,253	843,257	378,605
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	105	$47,466	2,339,869	417,834	194,989	1	$440	22,284	9,285	1,857
Drain Water Heat Recovery System	Rebate for drain water heat recovery system.						1	$706	23,276	776	776
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	854	$33,231	2,829,227	878,658	314,359					
Flow Restrictors - Shower	Incentive for low-flow shower head.	854	$55,385	5,364,802	1,499,506	536,480					
Tank Insulation	Incentive for water heater tank insulation.	60	$1,169	101,834	30,550	10,183					
Pipe Insulation	Incentive for water pipe insulation.	60	$1,169	106,132	21,226	7,075					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	1,061	$66,166	2,572,522	690,135	233,866	2,113	$169,352	4,252,885	1,246,583	386,626
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	595	$19,313	764,604	205,024	69,509	793	$56,889	1,019,043	289,835	92,640
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	2,400	$77,903	3,769,182	741,272	251,279	2,980	$155,533	4,675,356	982,503	311,691
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	790	$25,643	2,225,404	546,961	185,450	349	$17,524	983,122	289,678	81,927
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	790	$25,643	875,012	172,049	58,334	258	$12,770	285,763	57,006	19,051
Appliance Recycling	Incentives for appliance recycling.	2,330	$178,176	25,006,142	8,752,746	2,778,460	1,191	$98,280	11,388,439	3,819,697	1,265,381
Efficient Television	Rebate for efficient television.	591	$30,676	1,172,414	279,382	97,701	685	$47,415	1,358,889	321,535	113,240
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	461	$299,102	15,242,043	1,452,568	508,068	32	$17,361	957,174	119,160	31,906
Advanced Lighting Package		255	$66,081	2,192,077	288,409	109,604	1	$203	8,596	2,149	430
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	78	$3,559	790,695	313,124	87,855	236	$890	2,392,359	531,635	265,818
Weatherization Rebates	Rebates for various insulation measures.	20	$7,533	439,903	46,718	15,573		$784			
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	571	$200,120	11,437,754	1,119,022	390,254	73	$22,369	1,337,597	131,375	44,586
Residential Total		**61,025**	**$3,827,637**	**341,551,496**	**62,948,759**	**21,647,969**	**209,301**	**$3,487,594**	**356,579,722**	**70,664,802**	**26,778,437**
Percentage of 5 year plan goal - Residential								**91%**	**104%**		**124%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Linn County Rural Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	1,144	$2,974	617,289	533,443	171,469	8,222	$16,096	5,340,865	3,072,610	1,483,574
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g.; CFLs, LEDS, florescent tubes, metal halide)	11,056	$209,210	16,384,415	7,988,156	2,820,332	13,035	$357,026	25,004,576	12,836,719	3,906,965
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	1,066	$34,564	1,431,784	903,766	305,870					
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	413	$13,406	607,648	119,568	40,510	127	$8,563	289,847	63,857	19,324
Air Cooled Chillers	Rebate for water cooled chillers.	267	$6,933	823,930	121,275	41,196	315	$3,350	972,052	243,013	48,603
Water Cooled Chillers	Rebate for air cooled chillers.						3	$387	15,870	3,968	794
Geothermal Heat Pump	Rebate for geothermal heat pump.	600	$259,762	25,551,086	3,832,663	1,277,554	718	$249,255	34,038,305	5,011,421	1,701,916
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	55	$14,270	1,282,927	241,035	85,528	13	$2,926	284,577	36,855	18,972
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	514	$120,057	19,804,120	2,831,912	990,206	26	$14,620	2,111,412	408,414	105,571
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	655	$34,025				11	$12,178			
Ag/Commercial & Industrial Appliances											
Commercial ENERGY STAR Refrigerators and Freezers	Rebates for ENERGY STAR refrigerators & freezers.	60	$7,793	307,486	76,871	25,624	7	$1,093	79,351	14,972	5,290
Ag/Commercial & Industrial Insulation											
Building Envelope	Rebates for insulation.	29	$44,266	2,690,387	336,603	112,696		$350			
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	60	$9,731	636,793	120,283	42,453	22	$5,688	233,491	77,830	15,566
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	117	$182,201	43,318,018	8,293,364	2,887,868	30	$72,672	23,906,575	5,820,495	1,593,772
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	5	$3,896	730,279	146,056	48,685		$1,187			
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	5	$5,195	823,847	164,769	54,923		$1,187			
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	162	$19,238	854,850	200,520	71,238	28	$6,547	252,510	50,502	16,834
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	22	$713	59,646	13,782	4,970		$1,187			
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	99	$4,704	391,479	91,279	32,623		$2,932			
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	5	$1,624	274,836	54,967	18,322		$1,187			
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	183	$11,872	1,732,872	411,123	144,406	12	$2,330	113,631	33,140	9,469
Premium Motors Rebate Program - Dairy Vacuum Pump	Rebate for premium motors for dairy vacuum pumps.							$440			
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	5	$2,598	1,102,315	194,526	64,842		$1,187			
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	325	$1,265	216,342	152,272	54,086		$1,187			
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	165	$5,351	329,142	92,160	32,914		$220			
Hog Farrowing - Double Crate Heating Pads(<=170W)	Rebate for double crate heating pads.							$220			
Hog Farrowing - Heat Lamp or Pad Controller	Rebate for controller for heat pad or lamp.	5	$325	38,679	7,075	2,358		$440			
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		100	$587,357	47,846,327	10,853,445	3,617,815	9	$46,715	4,042,596	951,059	269,507
Ag, Commercial and Industrial Total		**17,117**	**$1,583,329**	**167,856,499**	**37,780,915**	**12,948,491**	**22,578**	**$811,169**	**96,685,658**	**28,624,853**	**9,196,156**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**51%**	**58%**		**71%**

II. Demand Response Programs											
Residential Time-of-Day Price	Residential time of day price.	1,496	$57,000				1,226	$168,431			
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price	23	$4,500				5	$24,951			
Industrial Interruptible Price	Industrial Interruptible Price	61	$1,380,892				37	$1,068,502			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	150	$3,750								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	150	$75,000				2	$3,168			
Energy Audit Services - Residential *	Energy Audit Services - Residential	2,500	$225,000				919	$89,422			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	10	$62,500				9	$57,139			
Member Information and Education	Member Information and Education	130,000	$275,000				126,363	$305,328			
Peak Alert	Peak Alert						27,221				
Living with Energy in Iowa	Living with Energy in Iowa magazine.	130,000	$1,650								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	130,000	$200,000				126,363	$229,575			
TOTAL		**472,532**	**$7,696,258**	**509,407,996**	**100,729,675**	**34,596,461**	**514,024**	**$6,245,279**	**453,265,380**	**99,289,655**	**35,974,593**
Percentage of 5 year plan goal achieved								**81%**	**89%**		**104%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Linn County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	308	$46,842	1,338,840	95,631	92	350	53,726	1,672,794	119,485	127
ENERGY STAR Qualified Room Air Conditioner	100	$3,289	88,278	9,809	9	12	$591	10,593	1,177	1
Geothermal Heat Pump	123	$254,901	32,433,679	1,621,684	53	143	$299,140	37,707,448	1,885,372	68
Air Source Heat Pump	21	$19,342	2,456,515	163,768	7	19	$18,345	2,222,561	148,171	6
Heat Recovery Ventilators	56	$9,211	696,175	34,809		21	$3,957	261,065	13,053	
Residential Contractor Rebates	144	$28,800				166	$43,838			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	3,532	$9,295	1,676,550	229,664	212	10,923	$18,989	5,800,162	794,543	722
Local CFL Rebate Program(s)	4,611	$12,134	2,188,724	299,825	277	1,863	$12,535	884,319	121,140	123
ENERGY STAR CFL/LED Fixtures	400	$4,211	872,863	43,643	16					
T8 or better Lighting Fixtures	235	$3,107	151,428	9,233	2					
ENERGY STAR LED lighting	86	$3,395	114,305	6,350	3					
ENERGY STAR Ceiling Fan	60	$1,184	179,730	9,985	2					
Exterior Lighting										
High Efficiency Exterior Lighting	140	$3,288	152,430	59,615	2	196	$7,650	233,811	53,139	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	218	$28,882	756,035	50,402	7	346	$79,588	1,194,103	79,607	12
Heat Pump Water Heater - (Add-On)	10	$3,947	191,214	19,121	2	7	$2,926	133,850	13,385	2
Heat Pump Water Heater - (Integrated)	25	$16,447	573,643	47,804	5	11	$6,013	252,403	21,034	3
Solar Water Heaters (w/ Electric auxiliary tank)	5	$2,303	111,422	9,285	1	1	$440	22,284	1,857	0
Drain Water Heat Recovery System										
Flow Restrictors - Faucet	126	$4,974	417,427	46,381	3					
Flow Restrictors - Shower	126	$8,289	791,528	79,153	6					
Tank Insulation	12	$237	20,367	2,037	0					
Pipe Insulation	12	$237	21,226	1,415	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	202	$12,757	489,773	44,525	16	454	$38,989	954,007	86,728	35
ENERGY STAR Qualified Dishwasher	113	$3,717	145,210	13,201	10	173	$13,623	222,313	20,210	17
ENERGY STAR Qualified Refrigerator	456	$15,000	716,145	47,743	5	687	$40,559	1,078,928	71,929	8
ENERGY STAR Qualified Dehumidifier	150	$4,934	422,545	35,212	3	124	$6,669	349,304	29,109	3
ENERGY STAR Qualified Freezer	150	$4,934	166,142	11,076	2	47	$2,547	52,058	3,471	1
Appliance Recycling	500	$38,235	5,366,125	596,236	95	242	$19,185	2,191,803	243,534	49
Efficient Television	100	$5,263	198,378	16,532	4	91	$6,757	180,524	15,044	4
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	78	$51,316	2,578,914	85,964	14	12	$7,095	396,756	13,225	2
Advanced Lighting Package	30	$7,895	257,891	12,895	7	1	$203	8,596	430	0
Additional Low Income										
Energy Efficiency Kits	20	$921	202,742	22,527	3					
Weatherization Rebates	4	$1,526	87,981	3,115	1		$784			
Building Shell - Existing Home Only										
Weatherization Rebates	95	$33,847	1,907,085	65,098	10	3	$2,310	233,689	7,790	1
Residential Total	**12,248**	**$644,660**	**57,771,312**	**3,793,737**	**868**	**15,892**	**$686,459**	**56,063,373**	**3,743,430**	**1,185**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Linn County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	247	$650	133,278	37,022	15					
High Efficiency Interior Lighting	1,734	$31,937	2,528,187	439,729	6	3,354	$91,089	4,649,496	726,484	264
Exterior Lighting										
High Efficiency Exterior Lighting	204	$6,684	273,284	58,506	2					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	78	$2,566	114,762	7,651	5	12	$458	17,656	1,177	1
Air Cooled Chillers	50	$1,316	154,294	7,715	4	315	$3,350	972,052	48,603	24
Water Cooled Chillers						3	$387	15,870	794	0
Geothermal Heat Pump	120	$52,632	5,110,217	255,511	14	163	$62,864	6,924,344	346,217	22
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	9	$2,368	209,934	13,996	1					
Heat Recovery Ventilators	87	$20,605	3,352,059	167,603	50	11	$2,692	423,824	21,191	7
Commercial Contractor Rebate (GS & AS)	129	$6,789								
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	12	$1,579	61,497	5,125	1		$270			
Ag/Commercial & Industrial Insulation										
Building Envelope	5	$8,743	528,569	21,945	2		$350			
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	10	$1,645	106,132	7,075	1	22	$5,688	233,491	15,566	2
Variable Speed Drive Motor Incentive	20	$31,579	7,404,789	493,653	43	12	$37,454	11,827,570	788,505	63
Agricultural										
Dairy Pre-coolers Incentive	1	$789	146,056	9,737	5		$440			
Dairy Heat Reclaimer	1	$1,053	164,769	10,985	5		$440			
Livestock Ventilation Fans	25	$3,011	131,921	10,993	3		$440			
Ventilation Thermostat Controller	3	$99	8,133	678	0		$440			
Circulating Fans --- BESS Lab Ratings	15	$723	59,315	4,943	2		$440			
Scroll compressor (milk cooling)	1	$329	54,967	3,664	0		$440			
Efficient Livestock Waterers	30	$1,974	284,077	23,673		3	$683	28,408	2,367	
Premium Motors Rebate Program - Dairy Vacuum Pump							$440			
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$526	220,463	12,968	1		$440			
Hog Farrowing - Heat Lamps (<= 175W)	50	$197	33,283	8,321			$440			
Hog Farrowing - Single Crate Heating Pads (<=85W)	25	$822	49,870	4,987			$220			
Hog Farrowing - Double Crate Heating Pads(<=170W)							$220			
Hog Farrowing - Heat Lamp or Pad Controller	1	$66	7,736	472			$440			
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	20	$119,007	9,569,265	723,563	72		$8,870			
Ag, Commercial and Industrial Total	**2,878**	**$297,690**	**30,706,860**	**2,330,514**	**232**	**3,895**	**$218,994**	**25,092,711**	**1,950,903**	**383**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	279	$9,500				258	$3,970			258
Commercial and Industrial Time-of-Day Price	2	$550				1	$308			195
Industrial Interruptible Price	9	$230,188			3,179	7	$167,694			3,075
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	30	$750								
Expert Energy Services - C&I	30	$15,000								
Energy Audit Services - Residential *	500	$45,000				182	$16,751			
IV. Educational & Research Programs										
Model Housing Education	2	$12,500				2	$10,250			
Member Information and Education	25,000	$55,000				20,435	$67,632			
Peak Alert										
Living with Energy in Iowa	25,000	$330								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	25,000	$38,000				20,435	$42,791			
TOTAL	**90,978**	**$1,349,168**	**88,478,172**	**6,124,251**	**4,278**	**61,107**	**$1,214,849**	**81,156,084**	**5,694,334**	**5,096**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Linn County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	321	$48,497	1,395,203	99,657	96	347	$50,239	1,460,192	104,299	111
ENERGY STAR Qualified Room Air Conditioner	100	$3,268	88,278	9,809	9	11	$581	9,711	1,079	1
Geothermal Heat Pump	142	$292,353	37,443,759	1,872,188	61	123	$224,753	32,433,679	1,621,684	58
Air Source Heat Pump	23	$21,046	2,690,469	179,365	7	27	$26,273	3,097,011	206,467	9
Heat Recovery Ventilators	62	$10,131	770,765	38,538		29	$6,515	360,519	18,026	
Residential Contractor Rebates	165	$33,000				136	$32,972			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	3,532	$9,234	1,676,550	229,664	212	7,430	$14,176	3,616,440	495,403	90
Local CFL Rebate Program(s)	4,611	$12,055	2,188,724	299,825	277	1,798	$12,218	962,688	131,875	115
ENERGY STAR CFL/LED Fixtures	500	$5,229	1,091,079	54,554	20	15	$342	32,732	1,637	1
T8 or better Lighting Fixtures	259	$3,412	167,478	10,212	3	61	$1,505	52,705	3,214	2
ENERGY STAR LED lighting	95	$3,725	126,268	7,015	4	415	$13,618	551,590	30,644	18
ENERGY STAR Ceiling Fan	70	$1,373	209,686	11,649	2	8	$288	23,964	1,331	
Exterior Lighting										
High Efficiency Exterior Lighting	140	$3,279	152,430	59,615	2	36	$560	97,033	22,053	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	223	$29,346	773,228	51,549	7	171	$35,166	598,325	39,888	6
Heat Pump Water Heater - (Add-On)	10	$3,922	191,214	19,121	2					
Heat Pump Water Heater - (Integrated)	40	$26,144	917,829	76,486	8	19	$11,808	435,969	36,331	4
Solar Water Heaters (w/ Electric auxiliary tank)	10	$4,575	222,845	18,570	2					
Drain Water Heat Recovery System										
Flow Restrictors - Faucet	158	$6,196	523,440	58,160	3					
Flow Restrictors - Shower	158	$10,327	992,551	99,255	8					
Tank Insulation	12	$235	20,367	2,037	0					
Pipe Insulation	12	$235	21,226	1,415	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	207	$12,993	501,896	45,627	17	486	$35,411	950,597	86,418	35
ENERGY STAR Qualified Dishwasher	116	$3,791	149,066	13,551	10	150	$7,662	192,757	17,523	15
ENERGY STAR Qualified Refrigerator	468	$15,294	734,990	48,999	5	577	$29,473	906,174	60,412	6
ENERGY STAR Qualified Dehumidifier	154	$5,033	433,813	36,151	3	96	$4,903	270,429	22,536	2
ENERGY STAR Qualified Freezer	154	$5,033	170,572	11,371	2	56	$2,860	62,026	4,135	1
Appliance Recycling	600	$45,882	6,439,350	715,483	114	242	$24,052	2,265,259	251,695	48
Efficient Television	110	$5,752	218,216	18,185	4	141	$9,409	279,713	23,309	6
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	86	$56,209	2,843,418	94,781	15	7	$4,029	231,441	7,715	1
Advanced Lighting Package	41	$10,719	352,452	17,623	9					
Additional Low Income										
Energy Efficiency Kits	24	$1,098	243,291	27,032	3					
Weatherization Rebates	4	$1,516	87,981	3,115	1					
Building Shell - Existing Home Only										
Weatherization Rebates	108	$38,155	2,165,158	73,851	11	23	$5,159	270,059	9,002	3
Residential Total	**12,715**	**$729,057**	**66,003,591**	**4,304,453**	**918**	**12,404**	**$553,972**	**49,161,013**	**3,196,676**	**533**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Linn County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	247	$646	133,278	37,022	15	419	$857	267,840	74,400	4
High Efficiency Interior Lighting	2,077	$39,318	3,068,102	529,125	7	2,242	$77,213	6,841,477	1,068,981	213
Exterior Lighting										
High Efficiency Exterior Lighting	208	$6,784	279,078	59,689	2					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	81	$2,647	119,176	7,945	5	13	$4,190	129,475	8,632	6
Air Cooled Chillers	52	$1,359	160,466	8,023	4					
Water Cooled Chillers										
Geothermal Heat Pump	120	$52,288	5,110,217	255,511	14	23	$48,722	4,462,923	223,146	14
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	10	$2,614	233,259	15,551	1	1	$503	13,996	933	
Heat Recovery Ventilators	96	$22,588	3,698,824	184,941	56	3	$7,847	1,194,412	59,721	20
Commercial Contractor Rebate (GS & AS)	130	$6,797				3	$2,512			
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	12	$1,569	61,497	5,125	1					
Ag/Commercial & Industrial Insulation										
Building Envelope	6	$8,967	540,454	22,688	2					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	11	$1,797	116,745	7,783	1					
Variable Speed Drive Motor Incentive	22	$34,510	8,145,268	543,018	47	1	$7,699	1,234,903	82,327	8
Agricultural										
Dairy Pre-coolers Incentive	1	$784	146,056	9,737	5		$349			
Dairy Heat Reclaimer	1	$1,046	164,769	10,985	5		$349			
Livestock Ventilation Fans	30	$3,590	158,306	13,192	4		$2,094			
Ventilation Thermostat Controller	4	$131	10,845	904	0		$349			
Circulating Fans --- BESS Lab Ratings	18	$862	71,178	5,932	2		$2,094			
Scroll compressor (milk cooling)	1	$327	54,967	3,664	0		$349			
Efficient Livestock Waterers	34	$2,222	321,954	26,830		3	$506	28,408	2,367	
Premium Motors Rebate Program - Dairy Vacuum Pump										
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$523	220,463	12,968	1		$349			
Hog Farrowing - Heat Lamps (<= 175W)	60	$235	39,940	9,985			$349			
Hog Farrowing - Single Crate Heating Pads (<=85W)	30	$980	59,844	5,984						
Hog Farrowing - Double Crate Heating Pads(<=170W)										
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	20	$118,229	9,569,265	723,563	72	6	$18,312	2,764,827	184,322	5
Ag, Commercial and Industrial Total	**3,273**	**$310,880**	**32,491,690**	**2,500,635**	**244**	**2,714**	**$174,643**	**16,938,261**	**1,704,829**	**270**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	289	$9,500				255	$34,153			255
Commercial and Industrial Time-of-Day Price	3	$650				1	$3,048			184
Industrial Interruptible Price	10	$244,386			3,292	7	$156,599			3,075
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	30	$750								
Expert Energy Services - C&I	30	$15,000								
Energy Audit Services - Residential *	500	$45,000				188	$19,872			
IV. Educational & Research Programs										
Model Housing Education	2	$12,500				2	$13,375			
Member Information and Education	25,500	$55,000				25,274	$44,665			
Peak Alert										
Living with Energy in Iowa	25,500	$330								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	25,500	$39,000				25,274	$43,429			
TOTAL	**93,352**	**$1,462,053**	**98,495,281**	**6,805,089**	**4,454**	**66,119**	**$1,043,756**	**66,099,274**	**4,901,505**	**4,317**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Linn County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	331	$49,675	1,438,344	102,739	99	322	46,927	1,272,308	90,879	97
ENERGY STAR Qualified Room Air Conditioner	100	$3,247	88,278	9,809	9	11	$647	9,711	1,079	1
Geothermal Heat Pump	156	$319,091	41,135,398	2,056,770	67	155	$281,659	40,608,021	2,030,401	73
Air Source Heat Pump	25	$22,727	2,924,422	194,961	8	15	$12,863	1,615,293	107,686	4
Heat Recovery Ventilators	68	$11,039	845,355	42,268		114	$24,811	6,606,583	330,329	9
Residential Contractor Rebates	181	$36,200				125	$29,720			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	3,355	$8,714	1,592,533	218,155	201	44,599	$78,689	19,837,797	2,717,506	373
Local CFL Rebate Program(s)	4,380	$11,377	2,079,074	284,805	263	868	$3,969	412,017	56,441	57
ENERGY STAR CFL/LED Fixtures	600	$6,234	1,309,295	65,465	24	19	$510	41,461	2,073	1
T8 or better Lighting Fixtures	290	$3,788	187,143	11,411	3	107	$2,373	94,891	5,786	3
ENERGY STAR LED lighting	107	$4,169	142,217	7,901	4	1,346	$21,676	1,789,012	99,390	59
ENERGY STAR Ceiling Fan	80	$1,558	239,641	13,313	2	1	$59	2,996	166	
Exterior Lighting										
High Efficiency Exterior Lighting	140	$3,271	152,430	59,615	2	96	$3,471	193,276	43,926	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	228	$29,805	790,421	52,695	7	236	$41,240	819,764	54,651	8
Heat Pump Water Heater - (Add-On)	10	$3,896	191,214	19,121	2					
Heat Pump Water Heater - (Integrated)	52	$33,766	1,193,178	99,431	11	40	$25,344	917,829	76,486	9
Solar Water Heaters (w/ Electric auxiliary tank)	20	$9,091	445,689	37,141	4					
Drain Water Heat Recovery System										
Flow Restrictors - Faucet	182	$7,091	602,950	66,994	4					
Flow Restrictors - Shower	182	$11,818	1,143,319	114,332	9					
Tank Insulation	12	$234	20,367	2,037	0					
Pipe Insulation	12	$234	21,226	1,415	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	212	$13,227	514,019	46,729	17	494	$44,061	1,043,326	94,848	38
ENERGY STAR Qualified Dishwasher	119	$3,864	152,921	13,902	11	202	$13,527	259,580	23,598	20
ENERGY STAR Qualified Refrigerator	480	$15,584	753,836	50,256	5	673	$35,677	1,052,230	70,149	7
ENERGY STAR Qualified Dehumidifier	158	$5,130	445,081	37,090	3	30	$1,590	84,509	7,042	1
ENERGY STAR Qualified Freezer	158	$5,130	175,002	11,667	2	59	$3,127	65,349	4,357	1
Appliance Recycling	400	$30,588	4,292,900	476,989	76	270	$23,880	2,657,343	295,260	54
Efficient Television	121	$6,286	240,037	20,003	5	176	$13,839	349,145	29,095	8
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	94	$61,039	3,107,922	103,597	17	5	$2,521	145,147	4,838	1
Advanced Lighting Package	55	$14,286	472,801	23,640	12					
Additional Low Income										
Energy Efficiency Kits	19	$864	192,605	21,401	2					
Weatherization Rebates	4	$1,506	87,981	3,115	1					
Building Shell - Existing Home Only										
Weatherization Rebates	118	$41,409	2,368,578	80,782	12	18	$4,773	285,334	9,511	2
Residential Total	**12,449**	**$775,938**	**69,346,177**	**4,349,548**	**883**	**49,981**	**$716,953**	**80,162,922**	**6,155,497**	**828**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Linn County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	235	$610	126,803	35,223	14	2,169	$3,810	1,489,009	413,614	14
High Efficiency Interior Lighting	2,337	$44,777	3,479,874	597,196	8	3,080	$71,127	7,442,502	1,162,891	109
Exterior Lighting										
High Efficiency Exterior Lighting	213	$6,909	286,109	61,124	2					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	83	$2,695	122,118	8,141	5	56	$2,443	80,922	5,395	4
Air Cooled Chillers	54	$1,403	166,638	8,332	4					
Water Cooled Chillers										
Geothermal Heat Pump	120	$51,948	5,110,217	255,511	14	87	$33,107	3,696,390	184,820	11
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	11	$2,857	256,585	17,106	1					
Heat Recovery Ventilators	105	$24,545	4,045,589	202,279	61	7	$2,952	285,118	14,256	5
Commercial Contractor Rebate (GS & AS)	131	$6,805				1	$2,484			
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	12	$1,558	61,497	5,125	1	5	$524	65,861	4,391	1
Ag/Commercial & Industrial Insulation										
Building Envelope	6	$8,909	540,454	22,688	2					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	12	$1,948	127,359	8,491	1					
Variable Speed Drive Motor Incentive	24	$37,403	8,885,747	592,383	52	4	$10,107	1,728,864	115,258	11
Agricultural										
Dairy Pre-coolers Incentive	1	$779	146,056	9,737	5		$398			
Dairy Heat Reclaimer	1	$1,039	164,769	10,985	5		$398			
Livestock Ventilation Fans	34	$4,042	179,413	14,951	4	28	$4,013	252,510	16,834	5
Ventilation Thermostat Controller	5	$162	13,556	1,130	0		$398			
Circulating Fans --- BESS Lab Ratings	21	$999	83,041	6,920	2		$398			
Scroll compressor (milk cooling)	1	$325	54,967	3,664	0		$398			
Efficient Livestock Waterers	38	$2,468	359,831	29,986		3	$953	28,408	2,367	
Premium Motors Rebate Program - Dairy Vacuum Pump										
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$519	220,463	12,968	1		$398			
Hog Farrowing - Heat Lamps (<= 175W)	69	$269	45,931	11,483			$398			
Hog Farrowing - Single Crate Heating Pads (<=85W)	35	$1,136	69,818	6,982						
Hog Farrowing - Double Crate Heating Pads(<=170W)										
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	20	$117,462	9,569,265	723,563	72	1	$10,528	651,010	43,401	1
Ag, Commercial and Industrial Total	**3,570**	**$321,633**	**34,123,839**	**2,646,439**	**255**	**5,441**	**$144,834**	**15,720,594**	**1,963,227**	**161**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	389	$19,000				254	$45,770			254
Commercial and Industrial Time-of-Day Price	4	$800				1	$6,527			236
Industrial Interruptible Price	12	$273,334			3,593	7	$207,079			2,872
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	30	$750								
Expert Energy Services - C&I	30	$15,000								
Energy Audit Services - Residential *	500	$45,000				192	$16,056			
IV. Educational & Research Programs										
Model Housing Education	2	$12,500				2	$12,912			
Member Information and Education	26,000	$55,000				25,984	$58,500			
Peak Alert										
Living with Energy in Iowa	26,000	$330								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	26,000	$40,000				25,984	$45,664			
TOTAL	**94,986**	**$1,559,284**	**103,470,016**	**6,995,987**	**4,731**	**107,846**	**$1,254,295**	**95,883,516**	**8,118,724**	**4,351**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Linn County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	338	$50,387	1,468,262	104,876	101	285	$43,789	1,230,911	87,922	93
ENERGY STAR Qualified Room Air Conditioner	100	$3,226	88,278	9,809	9	6	$360	5,297	589	1
Geothermal Heat Pump	164	$333,290	43,244,905	2,162,245	71	151	$287,587	39,816,955	1,990,848	72
Air Source Heat Pump	26	$23,484	3,041,399	202,760	8	26	$20,507	3,010,717	200,714	9
Heat Recovery Ventilators	71	$11,452	882,650	44,132		29	$4,548	360,519	18,026	
Residential Contractor Rebates	190	$38,000				137	$31,242			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	3,087	$7,966	1,465,320	200,729	185	61,085	$120,781	25,249,987	3,458,902	474
Local CFL Rebate Program(s)	4,030	$10,400	1,912,938	262,046	242	1,122	$2,922	532,585	72,957	74
ENERGY STAR CFL/LED Fixtures	600	$6,194	1,309,295	65,465	24	31	$641	67,647	3,382	1
T8 or better Lighting Fixtures	313	$4,072	202,506	12,348	3	107	$2,373	95,939	5,850	3
ENERGY STAR LED lighting	116	$4,490	154,179	8,566	5	3,138	$36,590	4,170,818	231,712	138
ENERGY STAR Ceiling Fan	90	$1,742	269,596	14,978	3	12	$301	35,946	1,997	0
Exterior Lighting										
High Efficiency Exterior Lighting	140	$3,262	152,430	59,615	2	144	$4,906	386,242	87,782	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	234	$30,387	811,052	54,070	7	199	$29,003	690,471	46,031	7
Heat Pump Water Heater - (Add-On)	10	$3,871	191,214	19,121	2					
Heat Pump Water Heater - (Integrated)	70	$45,161	1,606,201	133,850	15	62	$39,862	1,422,635	118,553	14
Solar Water Heaters (w/ Electric auxiliary tank)	30	$13,548	668,534	55,711	6					
Drain Water Heat Recovery System										
Flow Restrictors - Faucet	191	$7,394	632,766	70,307	4					
Flow Restrictors - Shower	191	$12,323	1,199,856	119,986	10					
Tank Insulation	12	$232	20,367	2,037	0					
Pipe Insulation	12	$232	21,226	1,415	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	217	$13,458	526,143	47,831	17	363	$31,780	705,043	64,095	26
ENERGY STAR Qualified Dishwasher	122	$3,935	156,776	14,252	11	142	$17,820	182,477	16,589	14
ENERGY STAR Qualified Refrigerator	492	$15,871	772,682	51,512	5	588	$34,450	923,450	61,563	6
ENERGY STAR Qualified Dehumidifier	162	$5,226	456,349	38,029	3	41	$2,402	115,496	9,625	1
ENERGY STAR Qualified Freezer	162	$5,226	179,433	11,962	2	40	$2,344	44,304	2,954	0
Appliance Recycling	410	$31,353	4,400,222	488,914	78	212	$17,577	2,111,188	234,576	43
Efficient Television	127	$6,555	251,940	20,995	5	121	$8,976	240,037	20,003	5
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	99	$63,871	3,273,237	109,108	18	2	$878	45,958	1,532	0
Advanced Lighting Package	63	$16,258	541,572	27,079	14					
Additional Low Income										
Energy Efficiency Kits	10	$452	101,371	11,263	1	236	$890	2,392,359	265,818	34
Weatherization Rebates	4	$1,497	87,981	3,115	1					
Building Shell - Existing Home Only										
Weatherization Rebates	125	$43,494	2,498,466	85,262	13	16	$5,092	288,045	9,601	2
Residential Total	**12,008**	**$818,308**	**72,589,147**	**4,513,387**	**864**	**68,295**	**$747,621**	**84,125,026**	**7,011,622**	**1,020**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Linn County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	216	$557	116,551	32,375	13	3,024	$5,975	1,938,990	538,608	23
High Efficiency Interior Lighting	2,454	$46,739	3,654,126	627,141	8	2,763	$70,585	3,142,999	491,094	31
Exterior Lighting										
High Efficiency Exterior Lighting	218	$7,032	293,141	62,559	2					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	85	$2,742	125,061	8,337	5	34	$1,067	47,082	3,139	2
Air Cooled Chillers	55	$1,419	169,723	8,486	4					
Water Cooled Chillers										
Geothermal Heat Pump	120	$51,613	5,110,217	255,511	14	416	$90,844	17,711,161	885,558	55
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	12	$3,097	279,911	18,661	1	10	$1,882	226,262	15,084	1
Heat Recovery Ventilators	110	$25,548	4,238,236	211,912	64	5	$1,129	208,059	10,403	3
Commercial Contractor Rebate (GS & AS)	132	$6,813				5	$5,722			
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	12	$1,548	61,497	5,125	1	2	$299	13,490	899	0
Ag/Commercial & Industrial Insulation										
Building Envelope	6	$8,852	540,454	22,688	2					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	13	$2,097	137,972	9,198	1					
Variable Speed Drive Motor Incentive	25	$38,710	9,255,987	617,066	54	12	$15,579	8,928,101	595,207	64
Agricultural										
Dairy Pre-coolers Incentive	1	$774	146,056	9,737	5					
Dairy Heat Reclaimer	1	$1,032	164,769	10,985	5					
Livestock Ventilation Fans	36	$4,252	189,967	15,831	5					
Ventilation Thermostat Controller	5	$161	13,556	1,130	0					
Circulating Fans --- BESS Lab Ratings	22	$1,040	86,995	7,250	2					
Scroll compressor (milk cooling)	1	$323	54,967	3,664	0					
Efficient Livestock Waterers	40	$2,581	378,770	31,564		3	$188	28,408	2,367	
Premium Motors Rebate Program - Dairy Vacuum Pump										
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$516	220,463	12,968	1					
Hog Farrowing - Heat Lamps (<= 175W)	72	$279	47,928	11,982						
Hog Farrowing - Single Crate Heating Pads (<=85W)	37	$1,194	73,808	7,381						
Hog Farrowing - Double Crate Heating Pads(<=170W)										
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	20	$116,704	9,569,265	723,563	72	2	$6,705	626,759	41,784	10
Ag, Commercial and Industrial Total	**3,695**	**$325,687**	**34,937,157**	**2,715,585**	**260**	**6,276**	**$199,975**	**32,871,310**	**2,584,143**	**190**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	539	$19,000				235	$44,420			470
Commercial and Industrial Time-of-Day Price	6	$1,100				1	$6,605			238
Industrial Interruptible Price	14	$302,106			3,874	8	$263,949			4,275
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	30	$750								
Expert Energy Services - C&I	30	$15,000				1	$598			
Energy Audit Services - Residential *	500	$45,000				143	$21,152			
IV. Educational & Research Programs										
Model Housing Education	2	$12,500				1	$6,852			
Member Information and Education	26,500	$55,000				27,449	$69,365			
Peak Alert										
Living with Energy in Iowa	26,500	$330								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	26,500	$41,000				27,449	$48,348			
TOTAL	**96,324**	**$1,635,781**	**107,526,304**	**7,228,972**	**4,999**	**129,858**	**$1,408,885**	**116,996,335**	**9,595,765**	**6,194**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Linn County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	341	$50,513	1,481,485	105,820	102	380	$60,853	1,709,547	122,110	130
ENERGY STAR Qualified Room Air Conditioner	100	$3,205	88,278	9,809	9	4	$135	3,531	392	0
Geothermal Heat Pump	172	$347,308	45,354,413	2,267,721	74	166	$311,503	43,772,282	2,188,614	79
Air Source Heat Pump	27	$24,231	3,158,376	210,558	8	32	$26,132	3,681,896	245,460	10
Heat Recovery Ventilators	74	$11,859	919,945	45,997		31	$5,237	385,382	19,269	622
Residential Contractor Rebates	199	$39,800				137	$37,033			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,840	$7,282	1,348,075	184,668	170	52,760	$110,146	21,414,351	2,933,473	402
Local CFL Rebate Program(s)	3,708	$9,508	1,760,093	241,109	222	406	$850	192,718	26,400	27
ENERGY STAR CFL/LED Fixtures	618	$6,338	1,348,574	67,429	25	11	$264	24,004	1,200	0
T8 or better Lighting Fixtures	323	$4,173	208,832	12,734	3	2,012	$33,953	2,199,334	134,106	19
ENERGY STAR LED lighting	120	$4,615	159,496	8,861	5	5,045	$49,543	6,705,474	372,526	222
ENERGY STAR Ceiling Fan	100	$1,923	299,551	16,642	3	6	$154	17,973	999	0
Exterior Lighting										
High Efficiency Exterior Lighting	140	$3,253	152,430	59,615	2	69	$2,703	180,198	40,954	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	240	$30,962	831,683	55,446	7	192	$26,288	670,534	44,702	6
Heat Pump Water Heater - (Add-On)	10	$3,846	191,214	19,121	2					
Heat Pump Water Heater - (Integrated)	94	$60,256	2,156,898	179,741	20	66	$44,602	1,514,418	126,201	15
Solar Water Heaters (w/ Electric auxiliary tank)	40	$17,949	891,378	74,282	8					
Drain Water Heat Recovery System						1	$706	23,276	776	0
Flow Restrictors - Faucet	197	$7,577	652,644	72,516	4					
Flow Restrictors - Shower	197	$12,628	1,237,548	123,755	10					
Tank Insulation	12	$231	20,367	2,037	0					
Pipe Insulation	12	$231	21,226	1,415	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	223	$13,731	540,690	49,154	18	316	$19,111	599,912	54,537	22
ENERGY STAR Qualified Dishwasher	125	$4,006	160,631	14,603	11	126	$4,257	161,916	14,720	12
ENERGY STAR Qualified Refrigerator	504	$16,154	791,528	52,769	5	455	$15,374	714,574	47,638	5
ENERGY STAR Qualified Dehumidifier	166	$5,321	467,617	38,968	3	58	$1,960	163,384	13,615	1
ENERGY STAR Qualified Freezer	166	$5,321	183,863	12,258	2	56	$1,892	62,026	4,135	1
Appliance Recycling	420	$32,118	4,507,545	500,838	80	225	$13,586	2,162,846	240,316	46
Efficient Television	133	$6,821	263,843	21,987	5	156	$8,434	309,470	25,789	7
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	104	$66,667	3,438,552	114,618	19	6	$2,838	137,873	4,596	1
Advanced Lighting Package	66	$16,923	567,361	28,368	15					
Additional Low Income										
Energy Efficiency Kits	5	$224	50,686	5,632	1					
Weatherization Rebates	4	$1,487	87,981	3,115	1					
Building Shell - Existing Home Only										
Weatherization Rebates	125	$43,215	2,498,466	85,262	13	13	$5,035	260,470	8,682	2
Residential Total	**11,605**	**$859,675**	**75,841,269**	**4,686,844**	**848**	**62,729**	**$782,589**	**87,067,388**	**6,671,212**	**1,632**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Linn County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	199	$510	107,378	29,827	12	2,610	$5,454	1,645,026	456,952	20
High Efficiency Interior Lighting	2,454	$46,439	3,654,126	627,141	8	1,596	$47,012	2,928,102	457,516	39
Exterior Lighting										
High Efficiency Exterior Lighting	223	$7,154	300,172	63,993	2					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	86	$2,756	126,532	8,435	5	12	$405	14,713	981	1
Air Cooled Chillers	56	$1,436	172,809	8,640	4					
Water Cooled Chillers										
Geothermal Heat Pump	120	$51,282	5,110,217	255,511	14	29	$13,718	1,243,486	62,174	4
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	13	$3,333	303,237	20,216	1	2	$541	44,319	2,955	0
Heat Recovery Ventilators	116	$26,769	4,469,412	223,471	67					
Commercial Contractor Rebate (GS & AS)	133	$6,821				2	$1,460			
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	12	$1,538	61,497	5,125	1					
Ag/Commercial & Industrial Insulation										
Building Envelope	6	$8,795	540,454	22,688	2					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	14	$2,244	148,585	9,906	1					
Variable Speed Drive Motor Incentive	26	$40,000	9,626,226	641,748	56	1	$1,833	187,137	12,476	
Agricultural										
Dairy Pre-coolers Incentive	1	$769	146,056	9,737	5					
Dairy Heat Reclaimer	1	$1,026	164,769	10,985	5					
Livestock Ventilation Fans	37	$4,342	195,244	16,270	5					
Ventilation Thermostat Controller	5	$160	13,556	1,130	0					
Circulating Fans --- BESS Lab Ratings	23	$1,080	90,950	7,579	2					
Scroll compressor (milk cooling)	1	$321	54,967	3,664	0					
Efficient Livestock Waterers	41	$2,628	388,239	32,353						
Premium Motors Rebate Program - Dairy Vacuum Pump										
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$513	220,463	12,968	1					
Hog Farrowing - Heat Lamps (<= 175W)	74	$285	49,259	12,315						
Hog Farrowing - Single Crate Heating Pads (<=85W)	38	$1,218	75,802	7,580						
Hog Farrowing - Double Crate Heating Pads(<=170W)										
Hog Farrowing - Heat Lamp or Pad Controller	1	$64	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	20	$115,956	9,569,265	723,563	72		$2,300			
Ag, Commercial and Industrial Total	**3,701**	**$327,439**	**35,596,954**	**2,755,319**	**265**	**4,252**	**$72,723**	**6,062,782**	**993,053**	**64**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price						224	$40,118			448
Commercial and Industrial Time-of-Day Price	8	$1,400				1	$8,463			222
Industrial Interruptible Price	16	$330,878			4,139	8	$273,181			4,404
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	30	$750								
Expert Energy Services - C&I	30	$15,000				1	$2,570			
Energy Audit Services - Residential *	500	$45,000				214	$15,591			
IV. Educational & Research Programs										
Model Housing Education	2	$12,500				2	$13,750			
Member Information and Education	27,000	$55,000				27,221	$65,166			
Peak Alert						27,221				
Living with Energy in Iowa	27,000	$330								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	27,000	$42,000				27,221	$49,343			
TOTAL	**96,892**	**$1,689,972**	**111,438,223**	**7,442,163**	**5,252**	**149,094**	**$1,323,494**	**93,130,171**	**7,664,265**	**6,770**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Lyon Rural Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Lyon Rural Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Lyon Rural Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Lyon Rural Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Lyon Rural Electric Cooperative.

Lyon Rural Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Lyon Rural Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Lyon Rural Electric Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a

commercial setting. For the large commercial member-consumers of Lyon Rural Electric Cooperative, we offer a custom rebate program. Due to the low number of large commercial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large commercial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Lyon Rural Electric Cooperative also offers energy audits for all member-consumers.

In addition to the rebate opportunities, Lyon Rural Electric Cooperative offers one demand response program that helps us to be both environmentally and fiscally responsible. The water heater load control program is an optional incentive program that allows member-consumers to receive a bill credit per month per controlled water heater in exchange for our ability to curtail load during peak times.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Lyon Rural Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Lyon Rural Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Lyon Rural Electric Cooperative consistently shares the energy efficiency message on our website, by sponsoring a radio program with other Electric Cooperatives that feature energy efficiency ideas and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Lyon Rural Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Lyon Rural Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Lyon Rural Electric Cooperative. Lyon Rural Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Lyon Rural Electric Cooperative	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	25	$4,563	85,392	15,205	6,099	7	$1,325	22,113	4,005	1,579
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	24	$750	15,584	4,618	1,732	2	$65	1,298	577	144
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	110	$269,500	29,213,646	4,328,931	1,460,682	130	$268,152	34,525,219	5,616,985	1,726,260
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	48	$36,000	5,655,139	1,107,465	377,009	32	$19,624	3,770,092	801,145	251,339
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	10,069	$25,173	4,813,757	1,906,741	659,419	287	$1,119	137,208	90,507	18,796
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	7,500	$18,750	3,585,578	1,473,525	491,175	4,620	$11,087	2,208,716	1,200,824	302,564
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	250	$62,500	557,081	303,863	101,288					
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	143	$35,750	792,856	153,766	52,857	170	$37,429	942,557	194,426	62,837
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	210	$3,938	700,699	233,566	77,855					
Flow Restrictors - Shower	Incentive for low-flow shower head.	210	$3,938	1,328,670	398,601	132,867					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	15	$938	36,630	8,658	3,330	127	$6,790	310,134	90,576	28,194
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	85	$2,656	110,012	26,121	10,001	62	$2,174	80,245	25,888	7,296
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	82	$2,563	129,704	22,461	8,647	112	$3,240	177,156	36,381	11,811
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	123	$3,844	137,213	23,650	9,148	30	$936	33,466	6,694	2,231
Appliance Recycling	Incentives for appliance recycling.	164	$12,113	1,473,006	488,600	163,667	81	$5,053	673,803	296,878	75,752
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	150	$3,750	1,525,473	508,491	169,497	601	$17,971	6,112,062	2,939,078	679,118
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	19	$9,252	854,078	70,378	28,469	129	$42,642	5,789,804	539,062	192,994
Residential Total		**19,227**	**$495,974**	**51,014,518**	**11,074,639**	**3,753,743**	**6,390**	**$417,608**	**54,783,873**	**11,843,026**	**3,360,915**
Percentage of 5 year plan goal - Residential								**84%**	**107%**		**90%**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	1,608	$4,020	1,207,882	976,927	326,455	17	$30	12,770	17,257	3,451
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)						2,355	$13,544	2,164,416	1,180,497	295,749
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	15	$563	30,594	18,731	6,244	121	$1,044	133,799	109,224	27,306
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	25	$61,250	6,510,150	976,523	325,508	2	$4,418	520,812	104,162	26,040
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	15	$11,250	1,766,732	353,346	117,782		$31			
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.						4	$870	22,178	5,913	1,478
Ag/Commercial & Industrial Insulation											
Building Envelope	Rebates for insulation.						1	$586	248,224	49,645	9,929
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	10	$750	106,893	21,379	7,126					
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	5	$2,500	1,632,116	326,423	108,808					
Agricultural											
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	40	$3,500	185,947	46,487	15,496		$200			
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		50	$50,000	2,452,545	735,764	245,255	9	$14,380	850,907	249,549	117,417
Ag, Commercial and Industrial Total		**1,768**	**$133,833**	**13,892,859**	**3,455,580**	**1,152,672**	**2,509**	**$35,103**	**3,953,105**	**1,716,246**	**481,370**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**26%**	**28%**		**42%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	4,650	$418,500				4,778	$183,396			
Crop Drying											
Load Control	Crop drying load control.	60	$5,400				20				
Irrigation											
Load Control	Irrigation load control.	5	$450				4				
III. Energy Audit & Technical Support Programs											
Energy Audit Services - Residential *	Energy Audit Services - Residential	320	$100,000				31	$6,540			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	7,925	$8,040				7,997	$36,146			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	7,925	$949				7,997	$20,907			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,925	$26,425				7,997	$39,103			
TOTAL		**49,805**	**$1,189,570**	**64,907,377**	**14,530,218**	**4,906,414**	**37,723**	**$738,802**	**58,736,978**	**13,559,272**	**3,842,286**
Percentage of 5 year plan goal achieved								**62%**	**90%**		**78%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Lyon Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	3	$563	10,521	751	1	1	221	4,646	332	0
ENERGY STAR Qualified Room Air Conditioner	3	$94	1,948	216	0	1	$30	649	72	0
Geothermal Heat Pump	21	$51,450	5,577,151	278,858	32	28	$57,918	7,436,201	371,810	48
Air Source Heat Pump	9	$6,750	1,060,339	70,689	9	7	$4,673	824,708	54,981	8
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,823	$4,558	871,534	119,388	109	234	$418	111,870	15,325	16
Local CFL Rebate Program(s)	1,500	$3,750	717,116	98,235	90	1,500	$3,080	717,116	98,235	100
Exterior Lighting										
High Efficiency Exterior Lighting	50	$12,500	111,416	20,258	5					
Residential Water Heating (low income included)										
High Efficiency Water Heater	26	$6,500	144,156	9,610	1	38	$8,203	210,689	14,046	2
Flow Restrictors - Faucet	42	$788	140,140	15,571	1					
Flow Restrictors - Shower	42	$788	265,734	26,573	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	2	$125	4,884	444	0	26	$1,428	63,492	5,772	2
ENERGY STAR Qualified Dishwasher	11	$344	14,237	1,294	1	14	$370	18,120	1,647	1
ENERGY STAR Qualified Refrigerator	10	$313	15,818	1,055	0	19	$539	30,053	2,004	0
ENERGY STAR Qualified Freezer	15	$469	16,733	1,116	0	6	$221	6,693	446	0
Appliance Recycling	32	$2,150	285,954	31,773	5	29	$1,943	237,026	26,677	6
Additional Low Income										
Energy Efficiency Kits	30	$750	305,095	33,899	4	200	$4,721	2,033,964	225,996	29
Building Shell - Existing Home Only										
Weatherization Rebates	2	$1,027	89,377	2,979	0	9	$4,100	407,192	13,573	1
Residential Total	**3,621**	**$92,916**	**9,632,151**	**712,710**	**262**	**2,112**	**$87,866**	**12,102,420**	**830,915**	**214**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	322	$805	241,877	65,372	19	17	$30	12,770	3,451	1
High Efficiency Interior Lighting										
Exterior Lighting										
High Efficiency Exterior Lighting	3	$113	6,119	1,249	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	5	$12,250	1,302,030	65,102	9	1	$2,288	260,406	13,020	2
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	3	$2,250	353,346	23,556	1					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater						2	$400	11,089	739	0
Ag/Commercial & Industrial Insulation										
Building Envelope						1	$500	248,224	9,929	1
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	2	$150	21,379	1,425	0					
Variable Speed Drive Motor Incentive	1	$500	326,423	21,762	2					
Agricultural										
Livestock Ventilation Fans	8	$700	37,189	3,099	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	10	$10,000	490,509	49,051	10	1	$11,600	49,051	4,905	1
Ag, Commercial and Industrial Total	**354**	**$26,768**	**2,778,872**	**230,616**	**43**	**22**	**$14,818**	**581,539**	**32,045**	**5**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	930	$83,700			465	989	$43,204			549
Crop Drying										
Load Control	12	$1,080			24					
Irrigation										
Load Control	1	$90			7					
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	64	$20,000								
IV. Educational & Research Programs										
Member Information and Education	1,585	$1,608				1,587	$5,907			
Living with Energy in Iowa	1,585	$190				1,587	$4,390			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,585	$5,285				1,587	$6,412			
TOTAL	**9,737**	**$231,636**	**12,411,023**	**943,326**	**801**	**7,884**	**$162,597**	**12,683,959**	**862,960**	**768**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Lyon Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	3	$563	10,521	751	1	1	$318	2,564	183	
ENERGY STAR Qualified Room Air Conditioner	4	$125	2,597	289	0					
Geothermal Heat Pump	22	$53,900	5,842,729	292,136	34	36	$72,122	9,560,830	478,041	62
Air Source Heat Pump	9	$6,750	1,060,339	70,689	9	8	$4,763	942,523	62,835	9
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,877	$4,693	897,351	122,925	113	53	$701	25,338	3,471	4
Local CFL Rebate Program(s)	1,500	$3,750	717,116	98,235	90	1,572	$3,225	751,537	102,950	105
Exterior Lighting										
High Efficiency Exterior Lighting	50	$12,500	111,416	20,258	5					
Residential Water Heating (low income included)										
High Efficiency Water Heater	27	$6,750	149,700	9,980	1	35	$7,278	194,056	12,937	2
Flow Restrictors - Faucet	42	$788	140,140	15,571	1					
Flow Restrictors - Shower	42	$788	265,734	26,573	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	2	$125	4,884	444	0	37	$1,946	90,354	8,214	3
ENERGY STAR Qualified Dishwasher	13	$406	16,825	1,530	1	22	$605	28,474	2,589	2
ENERGY STAR Qualified Refrigerator	13	$406	20,563	1,371	0	33	$936	52,198	3,480	
ENERGY STAR Qualified Freezer	19	$594	21,195	1,413	0	8	$213	8,924	595	
Appliance Recycling	33	$2,219	296,763	32,974	5	31	$1,770	242,304	27,399	7
Additional Low Income										
Energy Efficiency Kits	30	$750	305,095	33,899	4	400	$2,877	4,067,928	451,992	58
Building Shell - Existing Home Only										
Weatherization Rebates	3	$1,440	135,065	4,502	0	37	$11,943	1,660,471	55,349	5
Residential Total	**3,689**	**$96,545**	**9,998,032**	**733,540**	**268**	**2,273**	**$108,697**	**17,627,501**	**1,210,035**	**257**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	318	$795	238,872	64,560	19					
High Efficiency Interior Lighting						2,350	$11,894	2,155,258	294,916	5
Exterior Lighting										
High Efficiency Exterior Lighting	3	$113	6,119	1,249	0	121	$1,044	133,799	27,306	1
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	5	$12,250	1,302,030	65,102	9					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	3	$2,250	353,346	23,556	1					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Ag/Commercial & Industrial Insulation										
Building Envelope										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	2	$150	21,379	1,425	0					
Variable Speed Drive Motor Incentive	1	$500	326,423	21,762	2					
Agricultural										
Livestock Ventilation Fans	8	$700	37,189	3,099	1		$200			
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	10	$10,000	490,509	49,051	10					
Ag, Commercial and Industrial Total	**350**	**$26,758**	**2,775,868**	**229,804**	**43**	**2,471**	**$13,138**	**2,289,057**	**322,222**	**6**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	930	$83,700			465	966	$38,567			536
Crop Drying										
Load Control	12	$1,080			24	10				22
Irrigation										
Load Control	1	$90			7	1				7
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	64	$20,000								
IV. Educational & Research Programs										
Member Information and Education	1,585	$1,608				1,600	$4,250			
Living with Energy in Iowa	1,585	$190				1,600	$4,358			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,585	$5,285				1,600	$7,273			
TOTAL	**9,801**	**$235,255**	**12,773,899**	**963,344**	**806**	**10,521**	**$176,283**	**19,916,558**	**1,532,257**	**828**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Lyon Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	5	$875	16,395	1,171	2		61			
ENERGY STAR Qualified Room Air Conditioner	5	$156	3,247	361	0	1	$35	649	72	
Geothermal Heat Pump	22	$53,900	5,842,729	292,136	34	26	$51,737	6,905,044	345,252	44
Air Source Heat Pump	10	$7,500	1,178,154	78,544	10	6	$4,053	706,892	47,126	7
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,000	$5,000	956,154	130,980	120					
Local CFL Rebate Program(s)	1,500	$3,750	717,116	98,235	90	1,500	$3,822	717,116	98,235	100
Exterior Lighting										
High Efficiency Exterior Lighting	50	$12,500	111,416	20,258	5					
Residential Water Heating (low income included)										
High Efficiency Water Heater	29	$7,250	160,789	10,719	1	36	$7,588	199,600	13,307	2
Flow Restrictors - Faucet	42	$788	140,140	15,571	1					
Flow Restrictors - Shower	42	$788	265,734	26,573	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	3	$188	7,326	666	0	23	$1,389	56,166	5,106	2
ENERGY STAR Qualified Dishwasher	17	$531	22,002	2,000	2	10	$370	12,943	1,177	1
ENERGY STAR Qualified Refrigerator	16	$500	25,308	1,687	0	20	$697	31,635	2,109	
ENERGY STAR Qualified Freezer	24	$750	26,773	1,785	0	2	$129	2,231	149	
Appliance Recycling	33	$2,219	296,763	32,974	5	12	$870	112,175	12,532	2
Additional Low Income										
Energy Efficiency Kits	30	$750	305,095	33,899	4		$30			
Building Shell - Existing Home Only										
Weatherization Rebates	3	$1,440	135,065	4,502	0	22	$7,042	989,143	32,972	3
Residential Total	**3,831**	**$98,883**	**10,210,205**	**752,062**	**277**	**1,658**	**$77,823**	**9,733,594**	**558,037**	**161**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	320	$800	240,374	64,966	19					
High Efficiency Interior Lighting							$106			
Exterior Lighting										
High Efficiency Exterior Lighting	3	$113	6,119	1,249	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	5	$12,250	1,302,030	65,102	9	1	$2,130	260,406	13,020	2
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	3	$2,250	353,346	23,556	1		$31			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater						2	$470	11,089	739	
Ag/Commercial & Industrial Insulation										
Building Envelope							$86			
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	2	$150	21,379	1,425	0					
Variable Speed Drive Motor Incentive	1	$500	326,423	21,762	2					
Agricultural										
Livestock Ventilation Fans	8	$700	37,189	3,099	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	10	$10,000	490,509	49,051	10					
Ag, Commercial and Industrial Total	**352**	**$26,763**	**2,777,370**	**230,210**	**43**	**3**	**$2,823**	**271,495**	**13,759**	**2**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	930	$83,700			465	922	$33,192			512
Crop Drying										
Load Control	12	$1,080			24	4				9
Irrigation										
Load Control	1	$90			7	1				7
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	64	$20,000								
IV. Educational & Research Programs										
Member Information and Education	1,585	$1,608				1,599	$8,784			
Living with Energy in Iowa	1,585	$190				1,599	$4,138			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,585	$5,285				1,599	$8,035			
TOTAL	**9,945**	**$237,598**	**12,987,575**	**982,271**	**816**	**7,385**	**$134,795**	**10,005,089**	**571,796**	**691**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Lyon Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	6	$1,125	21,041	1,503	2	3	$425	7,692	549	1
ENERGY STAR Qualified Room Air Conditioner	6	$188	3,896	433	1					
Geothermal Heat Pump	22	$53,900	5,842,729	292,136	34	21	$46,600	5,577,151	278,858	36
Air Source Heat Pump	10	$7,500	1,178,154	78,544	10	6	$2,835	706,892	47,126	7
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,123	$5,308	1,014,957	139,035	127					
Local CFL Rebate Program(s)	1,500	$3,750	717,116	98,235	90					
Exterior Lighting										
High Efficiency Exterior Lighting	50	$12,500	111,416	20,258	5					
Residential Water Heating (low income included)										
High Efficiency Water Heater	30	$7,500	166,334	11,089	2	27	$5,720	149,700	9,980	1
Flow Restrictors - Faucet	42	$788	140,140	15,571	1					
Flow Restrictors - Shower	42	$788	265,734	26,573	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	4	$250	9,768	888	0	20	$948	48,840	4,440	2
ENERGY STAR Qualified Dishwasher	20	$625	25,885	2,353	2	16	$444	20,708	1,883	2
ENERGY STAR Qualified Refrigerator	20	$625	31,635	2,109	0	18	$489	28,472	1,898	0
ENERGY STAR Qualified Freezer	30	$938	33,467	2,231	0	8	$223	8,924	595	0
Appliance Recycling	33	$2,219	296,763	32,974	5	7	$270	64,426	7,158	1
Additional Low Income										
Energy Efficiency Kits	30	$750	305,095	33,899	4					
Building Shell - Existing Home Only										
Weatherization Rebates	5	$2,467	224,442	7,481	1	40	$11,827	1,793,538	59,785	5
Residential Total	**3,973**	**$101,218**	**10,388,571**	**765,313**	**286**	**166**	**$69,781**	**8,406,343**	**412,272**	**55**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	322	$805	241,877	65,372	19					
High Efficiency Interior Lighting										
Exterior Lighting										
High Efficiency Exterior Lighting	3	$113	6,119	1,249	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	5	$12,250	1,302,030	65,102	9					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	3	$2,250	353,346	23,556	1					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Ag/Commercial & Industrial Insulation										
Building Envelope										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	2	$150	21,379	1,425	0					
Variable Speed Drive Motor Incentive	1	$500	326,423	21,762	2					
Agricultural										
Livestock Ventilation Fans	8	$700	37,189	3,099	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	10	$10,000	490,509	49,051	10	8	$2,780	801,856	112,512	2
Ag, Commercial and Industrial Total	**354**	**$26,768**	**2,778,872**	**230,616**	**43**	**8**	**$2,780**	**801,856**	**112,512**	**2**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	930	$83,700			465	944	$33,984			524
Crop Drying										
Load Control	12	$1,080			24	4				9
Irrigation										
Load Control	1	$90			7	1				7
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	64	$20,000				13	$4,786			
IV. Educational & Research Programs										
Member Information and Education	1,585	$1,608				1,604	$3,291			
Living with Energy in Iowa	1,585	$190				1,604	$3,888			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,585	$5,285				1,604	$8,607			
TOTAL	**10,089**	**$239,938**	**13,167,443**	**995,928**	**825**	**5,948**	**$127,117**	**9,208,199**	**524,784**	**597**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Lyon Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,438	26,915	1,923	3	2	$300	7,211	515	1
ENERGY STAR Qualified Room Air Conditioner	6	$188	3,896	433	1					
Geothermal Heat Pump	23	$56,350	6,108,308	305,415	35	19	$39,775	5,045,993	252,300	32
Air Source Heat Pump	10	$7,500	1,178,154	78,544	10	5	$3,300	589,077	39,272	6
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,246	$5,615	1,073,761	147,091	135					
Local CFL Rebate Program(s)	1,500	$3,750	717,116	98,235	90	48	$960	22,948	3,144	3
Exterior Lighting										
High Efficiency Exterior Lighting	50	$12,500	111,416	20,258	5					
Residential Water Heating (low income included)										
High Efficiency Water Heater	31	$7,750	171,878	11,459	2	34	$8,640	188,511	12,567	2
Flow Restrictors - Faucet	42	$788	140,140	15,571	1					
Flow Restrictors - Shower	42	$788	265,734	26,573	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	4	$250	9,768	888	0	21	$1,079	51,282	4,662	2
ENERGY STAR Qualified Dishwasher	24	$750	31,062	2,824	2		$385			
ENERGY STAR Qualified Refrigerator	23	$719	36,380	2,425	0	22	$579	34,799	2,320	0
ENERGY STAR Qualified Freezer	35	$1,094	39,044	2,603	0	6	$150	6,693	446	0
Appliance Recycling	33	$3,306	296,763	32,974	5	2	$200	17,872	1,986	0
Additional Low Income										
Energy Efficiency Kits	30	$750	305,095	33,899	4	1	$10,343	10,170	1,130	0
Building Shell - Existing Home Only										
Weatherization Rebates	6	$2,879	270,130	9,004	1	21	$7,730	939,460	31,315	3
Residential Total	**4,113**	**$106,413**	**10,785,559**	**790,118**	**296**	**181**	**$73,441**	**6,914,015**	**349,657**	**49**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	326	$815	244,882	66,184	20					
High Efficiency Interior Lighting						5	$1,544	9,158	833	0
Exterior Lighting										
High Efficiency Exterior Lighting	3	$113	6,119	1,249	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	5	$12,250	1,302,030	65,102	9					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	3	$2,250	353,346	23,556	1					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Ag/Commercial & Industrial Insulation										
Building Envelope										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	2	$150	21,379	1,425	0					
Variable Speed Drive Motor Incentive	1	$500	326,423	21,762	2					
Agricultural										
Livestock Ventilation Fans	8	$700	37,189	3,099	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	10	$10,000	490,509	49,051	10					
Ag, Commercial and Industrial Total	**358**	**$26,778**	**2,781,877**	**231,428**	**43**	**5**	**$1,544**	**9,158**	**833**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	930	$83,700			465	957	$34,449			531
Crop Drying										
Load Control	12	$1,080			24	2				4
Irrigation										
Load Control	1	$90			7	1				7
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	64	$20,000				18	$1,754			
IV. Educational & Research Programs										
Member Information and Education	1,585	$1,608				1,607	$13,914			
Living with Energy in Iowa	1,585	$190				1,607	$4,133			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,585	$5,285				1,607	$8,776			
TOTAL	**10,233**	**$245,143**	**13,567,436**	**1,021,546**	**835**	**5,985**	**$138,011**	**6,923,173**	**350,489**	**592**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Midland Power Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Midland Power Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Midland Power Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Midland Power Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Midland Power Cooperative.

Midland Power Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Midland Power Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Midland Power Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Midland Power Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Midland Power Cooperative also offers energy audits for all member-consumers.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Midland Power Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Midland Power Cooperative publishes a quarterly newsletter that contains at least one article per issue intended to educate members on improving energy efficiency. Our monthly cooperative newsletter includes at least one energy efficiency tip to help our members save energy with little or no cost.

These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Midland Power Cooperative consistently shares the energy efficiency message on our website, in our monthly e-newsletter, via direct mail promotions, on our Facebook page, at fairs and home shows, by newspaper, radio and television advertising, and through energy our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime, such as investments in geothermal or air source heat pumps. As a member of the National Rural

Electric Cooperative Association (NRECA), Midland Power Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Midland Power Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with contractors to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local contractors as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Midland Power Cooperative. Midland Power Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Midland Power Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	252	$36,383	979,319	199,322	69,951	140	$26,745	687,939	152,737	49,139
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	50	$1,592	41,800	13,933	4,644	3	$467	2,648	589	294
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	228	$453,724	60,323,212	8,319,747	3,016,161	322	$577,411	85,013,528	11,860,639	4,250,676
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	218	$172,093	25,573,074	4,675,609	1,704,872	193	$150,376	22,239,376	4,133,017	1,482,626
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	23	$3,620	287,533	30,609	14,377	39	$5,824	485,371	67,182	24,268
Residential Contractor Rebates	Incentive for heat pump installs	293	$60,100				451	$81,168			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	6,489	$14,978	3,090,435	1,268,223	423,347	65,453	$169,083	29,261,463	11,067,098	4,008,420
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	52,353	$137,472	24,914,593	10,352,780	3,412,958	3,436	$10,921	1,631,587	780,052	223,504
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						110	$757	241,601	12,734	12,080
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	130	$975	104,673	9,574	6,383	873	$14,373	773,082	108,658	47,139
ENERGY STAR LED lighting	Rebate for LED lighting.	40	$100	53,546	4,462	2,975	1,846	$16,745	2,458,266	236,207	136,570
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	384	$8,078	1,154,849	181,950	64,158	6	$128	17,973	1,331	999
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	284	$10,408	283,384	183,903	64,406	169	$6,172	267,979	135,738	60,905
LED Holiday Lighting	Rebate for holiday lighting.	140	$350	130,536	16,317	10,878	631	$1,875	584,171	206,292	48,681
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	975	$160,679	4,411,701	826,716	294,113	705	$215,451	3,320,621	649,805	221,375
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	28	$10,646	537,867	138,250	53,787					
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	64	$33,620	1,474,447	287,932	122,871	21	$12,070	482,024	68,849	40,168
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	2	$750	44,888	5,611	3,741					
Drain Water Heat Recovery System	Rebate for drain water heat recovery system.	5	$1,575	117,216	11,722	3,907					
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	620	$13,246	2,065,523	472,067	229,503	1,730	$4,650	5,238,867	1,901,210	582,097
Flow Restrictors - Shower	Incentive for low-flow shower head.	445	$20,126	2,809,436	641,121	280,944	965	$5,033	6,066,379	1,930,426	606,638
Tank Insulation	Incentive for water heater tank insulation.	164	$3,155	279,003	81,149	27,900					
Pipe Insulation	Incentive for water pipe insulation.	341	$4,286	606,114	87,976	40,408	107		189,269	12,618	12,618
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	235	$23,607	819,565	195,380	74,506	448	$39,552	1,058,678	291,940	96,244
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	334	$12,600	430,855	110,925	39,169	202	$7,951	259,921	63,015	23,629
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	444	$15,521	699,651	134,033	46,643	511	$37,581	803,276	159,961	53,552
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	220	$7,008	621,954	150,777	51,830					
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	174	$5,530	193,510	36,025	12,901	124	$4,767	137,479	25,931	9,165
Appliance Recycling	Incentives for appliance recycling.	627	$70,805	5,362,546	1,698,206	602,646	518	$39,558	4,371,763	1,473,746	489,744
Efficient Television	Rebate for efficient television.	64	$3,261	127,417	30,195	10,618					
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	32	$21,616	1,062,045	102,875	35,402	42	$39,489	1,247,704	111,651	41,591
Advanced Lighting Package		10	$2,549	86,272	12,941	4,314	11	$2,697	94,561	17,621	4,728
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	512	$22,610	5,197,431	2,001,932	577,492	1,184	$28,455	6,791,075	2,556,303	754,564
Weatherization Rebates	Rebates for various insulation measures.	228	$170,635	9,274,163	893,770	309,139	34	$18,381	1,335,438	156,828	44,875
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	544	$211,404	13,205,380	1,240,861	452,131	58	$30,475	1,761,563	134,866	59,335
Residential Total		**66,952**	**$1,715,100**	**166,363,941**	**34,416,893**	**12,069,072**	**80,332**	**$1,548,154**	**176,823,601**	**38,317,043**	**13,385,624**
Percentage of 5 year plan goal - Residential								**90%**	**106%**		**111%**

Midland Power Cooperative	Measure Description	5 Year Plan (2010-2014) Estimated Achievable Potential Goals					5 Year Plan (2010-2014) Plan to Date Results				
		Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	1,312	$3,384	708,984	546,313	196,940	2,436	$18,190	1,131,338	667,309	314,260
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	4,983	$103,131	9,999,293	3,714,316	1,472,637	21,950	$309,975	31,684,119	16,679,616	5,723,269
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	680	$45,957	839,941	618,543	208,830	86	$3,158	95,207	58,290	19,430
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	42	$8,325	62,132	11,932	4,142	187	$5,443	275,134	70,132	18,342
Water Cooled Chillers	Rebate for air cooled chillers.	20	$150	106,560	15,984	5,328					
Geothermal Heat Pump	Rebate for geothermal heat pump.	139	$63,864	4,229,277	592,430	211,464	146	$49,277	6,108,342	1,259,830	305,416
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.						17	$8,400	401,206	53,494	26,747
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	21	$945	814,918	60,149	40,746	4	$4,337	674,269	131,001	33,713
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	176	$8,936				5	$4,915			
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.						3	$577	16,515	4,404	1,101
Ag/Commercial & Industrial Appliances											
Commercial ENERGY STAR Refrigerators and Freezers	Rebates for ENERGY STAR refrigerators & freezers.	63	$6,356	244,749	54,030	20,396					
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	15	$470	160,340	32,068	10,689					
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	20	$14,693	7,444,598	1,488,920	496,307	21	$69,344	50,699,959	3,836,775	3,379,998
Agricultural											
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	134	$14,980	815,205	180,576	67,934					
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	20	$640	54,418	13,604	4,535					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	82	$3,726	310,208	67,951	25,851					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	82	$5,218	779,532	175,042	64,961					
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	138	$529	92,206	63,304	23,051					
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	141	$1,520	282,969	117,646	28,297					
Hog Farrowing - Double Crate Heating Pads(<=170W)	Rebate for double crate heating pads.	6	$378	24,109	3,616	2,411					
Hog Farrowing - Heat Lamp or Pad Controller	Rebate for controller for heat pad or lamp.	196	$490	1,526,820	367,661	93,099					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		10	$67,727	5,517,024	1,251,480	417,160	3	$67,262	13,612,231	2,352,238	1,426,716
Ag, Commercial and Industrial Total		**8,280**	**$351,418**	**34,013,283**	**9,375,564**	**3,394,777**	**24,859**	**$540,878**	**104,698,319**	**25,113,089**	**11,248,994**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**154%**	**308%**		**331%**

II. Demand Response Programs											
Industrial Interruptible Price	Industrial Interruptible Price	5	$100,665				1	$16,753			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	193	$87,916				1	$35,743			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	34	$151,831				3	$124,742			
Energy Audit Services - Residential *	Energy Audit Services - Residential	2,155	$749,587				34	$2,506			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	10	$87,500				3	$16,900			
Domestic Water Heater Enhancement	Domestic Water Heater Enhancement	40	$5,000								
Member Information and Education	Member Information and Education	41,153	$454,865				21,824	$257,624			
Peak Alert	Peak Alert	41,153	$20,298				7,273	$100			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	2,950	$15,576								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	41,153	$153,241				21,824	$176,926			
TOTAL		**204,078**	**$3,892,996**	**200,377,224**	**43,792,457**	**15,463,849**	**156,154**	**$2,720,326**	**281,521,920**	**63,430,132**	**24,634,618**
Percentage of 5 year plan goal achieved								**70%**	**140%**		**159%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Midland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	44	$6,287	171,380	12,241	12	31	5,177	163,783	11,699	12
ENERGY STAR Qualified Room Air Conditioner	10	$320	8,360	929	1					
Geothermal Heat Pump	35	$70,978	9,257,448	462,872	32	54	$91,209	14,239,176	711,959	26
Air Source Heat Pump	34	$26,928	3,986,438	265,763	18	30	$20,446	3,509,307	233,954	10
Heat Recovery Ventilators	2	$320	24,952	1,248		2	$289	24,863	1,243	
Residential Contractor Rebates	43	$8,600				84	$18,754			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,300	$3,005	618,948	84,787	78	5,751	$12,840	2,729,853	373,952	380
Local CFL Rebate Program(s)	10,750	$27,829	5,114,659	700,638	645	1,551	$3,463	736,220	100,852	103
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures						56	$1,000	54,079	3,297	1
ENERGY STAR LED lighting										
ENERGY STAR Ceiling Fan	63	$1,209	189,469	10,526	2					
Exterior Lighting										
High Efficiency Exterior Lighting	50	$1,925	49,883	11,337	0	29	$1,166	28,829	6,552	0
LED Holiday Lighting						255	$569	236,070	19,672	70
Residential Water Heating (low income included)										
High Efficiency Water Heater	169	$27,384	759,125	50,608	7	121	$19,755	558,649	37,243	6
Heat Pump Water Heater - (Add-On)	4	$1,539	76,760	7,676	1					
Heat Pump Water Heater - (Integrated)	6	$3,849	138,168	11,514	1	2	$1,126	45,891	3,824	0
Solar Water Heaters (w/ Electric auxiliary tank)										
Drain Water Heat Recovery System	1	$75	23,443	781	0					
Flow Restrictors - Faucet	40	$1,539	132,991	14,777	1	242	$1,367	801,725	89,081	5
Flow Restrictors - Shower	40	$2,566	252,179	25,218	2	121	$1,367	760,118	76,012	7
Tank Insulation	30	$583	51,039	5,104	0					
Pipe Insulation	30	$583	53,193	3,546	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	43	$3,086	104,186	9,471	3	63	$5,004	136,058	12,369	5
ENERGY STAR Qualified Dishwasher	58	$1,860	74,800	6,800	5	17	$506	21,846	1,986	2
ENERGY STAR Qualified Refrigerator	80	$2,574	126,033	8,402	1	70	$19,651	109,934	7,329	1
ENERGY STAR Qualified Dehumidifier	40	$1,283	113,083	9,424	1					
ENERGY STAR Qualified Freezer	30	$962	33,347	2,223	0	14	$410	15,507	1,034	0
Appliance Recycling	105	$12,493	923,505	103,633	20	69	$4,192	563,883	63,397	14
Efficient Television	10	$513	19,909	1,659	0					
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	6	$3,849	199,089	6,636	1	6	$3,349	198,378	6,613	1
Advanced Lighting Package	2	$513	17,254	863	0	2	$447	17,193	860	0
Additional Low Income										
Energy Efficiency Kits	125	$5,642	1,268,775	140,975	16	180	$5,039	1,824,681	202,742	26
Weatherization Rebates	40	$29,122	1,572,206	52,407	7					
Building Shell - Existing Home Only										
Weatherization Rebates	84	$32,860	2,032,809	69,294	9	2	$2,776	90,725	3,024	0
Residential Total	**13,274**	**$280,276**	**27,393,432**	**2,081,353**	**865**	**8,752**	**$219,901**	**26,866,767**	**1,968,694**	**670**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Midland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	225	$592	121,407	33,724	14					
High Efficiency Interior Lighting	600	$20,699	974,912	151,023	2	6,950	$40,582	3,898,761	1,338,139	21
Exterior Lighting										
High Efficiency Exterior Lighting	130	$7,786	161,314	40,404	1					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$1,316	10,352	690	0	132	$3,724	194,212	12,947	9
Water Cooled Chillers										
Geothermal Heat Pump	10	$4,491	299,728	14,986	1	80	$22,482	3,406,812	170,341	11
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Heat Recovery Ventilators										
Commercial Contractor Rebate (GS & AS)	15	$763				3	$1,786			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	6	$578	19,313	1,609	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$94	32,068	2,138	0					
Variable Speed Drive Motor Incentive	4	$3,079	1,488,920	99,261	9					
Agricultural										
Livestock Ventilation Fans	20	$2,350	110,071	9,173	3					
Ventilation Thermostat Controller	4	$129	10,884	907	0					
Circulating Fans --- BESS Lab Ratings	12	$562	44,174	3,681	1					
Efficient Livestock Waterers	12	$770	114,038	9,503						
Hog Farrowing - Heat Lamps (<= 175W)	20	$77	13,361	3,340						
Hog Farrowing - Single Crate Heating Pads (<=85W)	97	$118	194,840	19,484						
Hog Farrowing - Double Crate Heating Pads(<=170W)										
Hog Farrowing - Heat Lamp or Pad Controller	64	$79	498,589	30,402						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$13,722	1,103,405	83,432	8					
Ag, Commercial and Industrial Total	**1,231**	**$57,204**	**5,197,375**	**503,758**	**40**	**7,165**	**$68,574**	**7,499,785**	**1,521,427**	**41**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$18,138			145					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	35	$16,000				1	$390			
Expert Energy Services - C&I	6	$29,000				3	$64,636			
Energy Audit Services - Residential *	400	$140,000				10	$373			
IV. Educational & Research Programs										
Model Housing Education	2	$17,500				1	$1,116			
Domestic Water Heater Enhancement										
Member Information and Education	7,400	$87,600				7,273	$101,801			
Peak Alert	7,400	$2,000				7,273	$100			
Living with Energy in Iowa										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,400	$27,800				7,273	$30,032			
TOTAL	**37,149**	**$675,518**	**32,590,807**	**2,585,112**	**1,050**	**37,751**	**$486,923**	**34,366,552**	**3,490,121**	**711**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Midland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	46	$6,521	177,959	12,711	13	32	$5,970	180,694	12,907	14
ENERGY STAR Qualified Room Air Conditioner	10	$319	8,360	929	1					
Geothermal Heat Pump	40	$80,821	10,579,670	528,984	36	62	$104,954	16,348,684	817,434	29
Air Source Heat Pump	37	$29,511	4,338,207	289,214	20	36	$28,174	4,211,168	280,745	12
Heat Recovery Ventilators	2	$319	24,952	1,248		11	$120	136,749	6,837	
Residential Contractor Rebates	49	$9,800				94	$617			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,300	$2,992	618,948	84,787	78	14,072	$38,816	6,679,619	915,016	931
Local CFL Rebate Program(s)	10,750	$27,704	5,114,659	700,638	645	384	$3,165	182,275	24,969	25
ENERGY STAR CFL/LED Fixtures						2	$5	4,364	218	
T8 or better Lighting Fixtures						187	$3,008	123,774	7,547	2
ENERGY STAR LED lighting							$6			
ENERGY STAR Ceiling Fan	70	$1,339	210,523	11,696	2					
Exterior Lighting										
High Efficiency Exterior Lighting	52	$1,995	51,878	11,790	0	45	$1,784	44,734	10,167	
LED Holiday Lighting						341	$1,299	315,686	26,307	94
Residential Water Heating (low income included)										
High Efficiency Water Heater	173	$27,887	777,076	51,805	7	174	$31,549	809,085	53,939	8
Heat Pump Water Heater - (Add-On)	4	$1,534	76,760	7,676	1					
Heat Pump Water Heater - (Integrated)	8	$4,614	184,224	15,352	2	1	$43	22,946	1,912	
Solar Water Heaters (w/ Electric auxiliary tank)										
Drain Water Heat Recovery System	1	$375	23,443	781	0					
Flow Restrictors - Faucet	50	$1,918	166,239	18,471	1	652	$972	2,160,019	240,002	14
Flow Restrictors - Shower	50	$3,197	315,224	31,522	3	410	$1,207	2,575,608	257,561	23
Tank Insulation	31	$600	52,736	5,274	0					
Pipe Insulation	32	$618	56,743	3,783	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	44	$3,157	107,277	9,752	4	124	$10,109	318,655	28,969	11
ENERGY STAR Qualified Dishwasher	60	$1,918	77,379	7,034	5	48	$1,727	61,682	5,607	5
ENERGY STAR Qualified Refrigerator	82	$2,988	129,186	8,612	1	128	$4,445	201,023	13,402	1
ENERGY STAR Qualified Dehumidifier	42	$1,342	118,737	9,895	1					
ENERGY STAR Qualified Freezer	30	$959	33,347	2,223	0	32	$1,108	35,444	2,363	
Appliance Recycling	108	$12,646	955,779	107,219	21	141	$6,827	1,122,607	126,424	29
Efficient Television	12	$614	23,891	1,991	0					
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	6	$3,836	199,089	6,636	1	5	$3,498	165,315	5,511	1
Advanced Lighting Package	2	$511	17,254	863	0	4	$1,026	34,386	1,719	1
Additional Low Income										
Energy Efficiency Kits	150	$6,743	1,522,530	169,170	20	180	$7,064	1,824,681	202,742	26
Weatherization Rebates	44	$32,758	1,774,082	59,136	7	14	$8,467	660,665	22,203	2
Building Shell - Existing Home Only										
Weatherization Rebates	96	$37,253	2,284,425	77,983	10	10	$5,194	321,719	10,874	
Residential Total	**13,381**	**$306,792**	**30,020,579**	**2,237,177**	**880**	**17,189**	**$271,154**	**38,541,582**	**3,075,375**	**1,228**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Midland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	225	$588	121,407	33,724	14					
High Efficiency Interior Lighting	726	$14,848	1,188,664	183,578	2	1,430	$12,365	1,179,770	305,939	5
Exterior Lighting										
High Efficiency Exterior Lighting	132	$8,349	163,536	40,857	1					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	8	$1,565	11,834	789	0					
Water Cooled Chillers										
Geothermal Heat Pump	30	$13,426	899,183	44,959	4	12	$5,465	511,022	25,551	2
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Heat Recovery Ventilators						3	$4,058	635,740	31,787	11
Commercial Contractor Rebate (GS & AS)	36	$1,834								
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater						3	$577	16,515	1,101	
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	10	$895	38,758	3,230	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$94	32,068	2,138	0					
Variable Speed Drive Motor Incentive	4	$3,069	1,488,920	99,261	9	11	$5,039	1,173,165	78,211	8
Agricultural										
Livestock Ventilation Fans	24	$2,808	125,540	10,462	3					
Ventilation Thermostat Controller	4	$128	10,884	907	0					
Circulating Fans --- BESS Lab Ratings	13	$608	48,128	4,011	1					
Efficient Livestock Waterers	13	$833	123,507	10,292						
Hog Farrowing - Heat Lamps (<= 175W)	24	$92	16,033	4,008						
Hog Farrowing - Single Crate Heating Pads (<=85W)	8	$256	16,016	1,602						
Hog Farrowing - Double Crate Heating Pads(<=170W)										
Hog Farrowing - Heat Lamp or Pad Controller	64	$78	498,589	30,402						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$13,633	1,103,405	83,432	8					
Ag, Commercial and Industrial Total	**1,326**	**$63,104**	**5,886,471**	**553,652**	**43**	**1,459**	**$27,504**	**3,516,212**	**442,589**	**26**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$19,874			155					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	37	$16,660								
Expert Energy Services - C&I	6	$29,421					$24,753			
Energy Audit Services - Residential *	412	$141,287				17	$524			
IV. Educational & Research Programs										
Model Housing Education	2	$17,500				1	$1,123			
Domestic Water Heater Enhancement										
Member Information and Education	7,518	$90,228				7,262	$79,905			
Peak Alert	7,518	$2,000								
Living with Energy in Iowa										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,518	$28,175				7,262	$30,448			
TOTAL	**37,719**	**$715,041**	**35,907,051**	**2,790,828**	**1,078**	**33,190**	**$435,411**	**42,057,794**	**3,517,964**	**1,254**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Midland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	48	$6,755	184,539	13,181	13	15	2,087	65,513	4,680	5
ENERGY STAR Qualified Room Air Conditioner	10	$318	8,360	929	1					
Geothermal Heat Pump	44	$88,542	11,638,205	581,910	40	50	$107,570	13,184,422	659,221	24
Air Source Heat Pump	40	$32,073	4,689,976	312,665	22	32	$32,710	3,743,261	249,551	11
Heat Recovery Ventilators	2	$318	24,952	1,248		9	$1,414	111,885	5,594	
Residential Contractor Rebates	54	$10,800				74	$370			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,234	$2,828	587,524	80,483	74	13,961	$35,297	6,626,930	907,799	923
Local CFL Rebate Program(s)	10,213	$26,204	4,859,164	665,639	613	480	$1,200	227,844	31,211	32
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures						187	$2,715	134,456	8,199	2
ENERGY STAR LED lighting						275	$3,960	365,511	20,306	12
ENERGY STAR Ceiling Fan	79	$1,507	237,590	13,199	2					
Exterior Lighting										
High Efficiency Exterior Lighting	54	$2,065	53,873	12,244	0	7	$272	6,959	1,582	
LED Holiday Lighting							$3			
Residential Water Heating (low income included)										
High Efficiency Water Heater	177	$28,389	795,028	53,002	7	126	$25,204	596,622	39,775	5
Heat Pump Water Heater - (Add-On)	4	$1,529	76,760	7,676	1					
Heat Pump Water Heater - (Integrated)	10	$6,372	230,280	19,190	2	2	$1,226	45,891	3,824	
Solar Water Heaters (w/ Electric auxiliary tank)										
Drain Water Heat Recovery System	1	$375	23,443	781	0					
Flow Restrictors - Faucet	58	$2,217	192,838	21,426	1	242	$318	801,725	89,081	5
Flow Restrictors - Shower	58	$3,696	365,660	36,566	3	136	$357	854,348	85,435	7
Tank Insulation	33	$635	56,143	5,614	0					
Pipe Insulation	33	$635	58,512	3,901	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	45	$5,502	192,136	17,467	6	88	$5,892	204,043	18,550	7
ENERGY STAR Qualified Dishwasher	62	$1,975	79,959	7,269	6	36	$1,135	46,262	4,206	4
ENERGY STAR Qualified Refrigerator	84	$3,053	132,338	8,823	1	110	$3,457	172,754	11,517	1
ENERGY STAR Qualified Dehumidifier	44	$1,402	124,391	10,366	1					
ENERGY STAR Qualified Freezer	30	$956	33,347	2,223	0	23	$717	25,475	1,698	
Appliance Recycling	111	$13,264	984,306	110,389	21	107	$5,312	914,569	102,497	21
Efficient Television	14	$714	27,872	2,323	1					
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	6	$3,823	199,089	6,636	1	6	$9,007	198,378	6,613	1
Advanced Lighting Package	2	$510	17,254	863	0	5	$1,224	42,982	2,149	1
Additional Low Income										
Energy Efficiency Kits	120	$5,373	1,218,024	135,336	16	120	$4,459	1,216,454	135,162	17
Weatherization Rebates	48	$36,370	1,975,958	65,865	8	20	$9,914	674,773	22,672	2
Building Shell - Existing Home Only										
Weatherization Rebates	104	$39,135	2,439,415	83,451	11	4	$2,906	156,669	5,373	
Residential Total	**12,822**	**$327,335**	**31,506,937**	**2,280,665**	**852**	**16,115**	**$258,726**	**30,417,726**	**2,416,695**	**1,080**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Midland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	214	$556	115,472	32,076	13	837	$2,049	451,635	125,454	55
High Efficiency Interior Lighting	976	$16,976	2,132,093	309,561	4	3,555	$89,178	9,452,943	1,440,323	24
Exterior Lighting										
High Efficiency Exterior Lighting	134	$8,744	165,758	41,311	1	86	$3,158	95,207	19,430	1
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	9	$1,815	13,316	888	1					
Water Cooled Chillers	20	$150	106,560	5,328	6					
Geothermal Heat Pump	45	$21,976	1,411,837	70,592	5	45	$18,830	1,920,590	96,029	6
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Heat Recovery Ventilators										
Commercial Contractor Rebate (GS & AS)	57	$2,899				1	$2,279			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	16	$1,719	71,945	5,995	1					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$94	32,068	2,138	0					
Variable Speed Drive Motor Incentive	4	$3,058	1,488,920	99,261	9	4	$6,364	1,480,958	98,731	9
Agricultural										
Livestock Ventilation Fans	28	$3,315	162,827	13,569	4					
Ventilation Thermostat Controller	4	$128	10,884	907	0					
Circulating Fans --- BESS Lab Ratings	14	$654	52,083	4,340	1					
Efficient Livestock Waterers	16	$1,019	152,051	12,671						
Hog Farrowing - Heat Lamps (<= 175W)	28	$108	18,706	4,676						
Hog Farrowing - Single Crate Heating Pads (<=85W)	10	$319	20,020	2,002						
Hog Farrowing - Double Crate Heating Pads(<=170W)										
Hog Farrowing - Heat Lamp or Pad Controller	64	$78	498,589	30,402						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$13,544	1,103,405	83,432	8	1	$37,342	5,553,129	462,761	81
Ag, Commercial and Industrial Total	**1,644**	**$77,152**	**7,556,530**	**719,149**	**54**	**4,529**	**$159,200**	**18,954,462**	**2,242,728**	**176**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$20,371			155	1	$16,753			217
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	38	$17,327					$9,962			
Expert Energy Services - C&I	6	$29,853					$9,962			
Energy Audit Services - Residential *	424	$148,400				7	$184			
IV. Educational & Research Programs										
Model Housing Education	2	$17,500				1	$7,793			
Domestic Water Heater Enhancement										
Member Information and Education	7,638	$92,935				7,289	$33,688			
Peak Alert	7,638	$2,000								
Living with Energy in Iowa										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,638	$28,673				7,289	$32,965			
TOTAL	**37,851**	**$761,546**	**39,063,467**	**2,999,815**	**1,061**	**35,231**	**$529,233**	**49,372,188**	**4,659,423**	**1,473**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Midland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	57	$8,421	222,721	15,909	16	29	$7,932	122,104	8,722	10
ENERGY STAR Qualified Room Air Conditioner	10	$317	8,360	929	1	3	$467	2,648	294	0
Geothermal Heat Pump	53	$104,024	14,026,522	701,326	53	75	$136,803	19,827,668	991,383	69
Air Source Heat Pump	53	$41,415	6,220,738	414,716	34	49	$38,180	5,598,580	373,239	34
Heat Recovery Ventilators	8	$1,253	100,077	5,004		10	$2,907	124,852	6,243	
Residential Contractor Rebates	72	$15,150				101	$27,362			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,385	$3,215	659,908	90,398	83	17,343	$54,265	7,316,222	1,002,222	268
Local CFL Rebate Program(s)	10,796	$29,252	5,139,757	704,076	648	242	$1,764	115,416	15,810	16
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	65	$488	52,337	3,191	1	160	$2,561	152,352	9,290	4
ENERGY STAR LED lighting	20	$50	26,773	1,487	1	797	$5,935	1,062,444	59,025	35
ENERGY STAR Ceiling Fan	85	$1,616	255,627	14,202	3	2	$28	5,991	333	0
Exterior Lighting										
High Efficiency Exterior Lighting	63	$2,177	62,877	14,290	0	36	$1,203	65,824	14,960	0
LED Holiday Lighting	70	$175	65,268	5,439	18					
Residential Water Heating (low income included)										
High Efficiency Water Heater	226	$38,261	1,031,260	68,751	9	120	$88,675	571,347	38,090	6
Heat Pump Water Heater - (Add-On)	8	$3,024	153,794	15,379	2					
Heat Pump Water Heater - (Integrated)	18	$10,391	414,832	34,569	4					
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0					
Drain Water Heat Recovery System	1	$375	23,443	781	0					
Flow Restrictors - Faucet	230	$3,709	766,719	85,191	5	242	$1,219	581,612	64,624	4
Flow Restrictors - Shower	145	$5,234	916,064	91,606	7	121	$1,087	761,875	76,187	7
Tank Insulation	34	$651	57,840	5,784	0					
Pipe Insulation	120	$1,201	213,494	14,233	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	51	$5,897	206,771	18,797	7	107	$14,372	244,342	22,213	9
ENERGY STAR Qualified Dishwasher	76	$3,407	98,069	8,915	7	53	$3,125	68,301	6,209	5
ENERGY STAR Qualified Refrigerator	98	$3,491	154,471	10,298	1	132	$7,871	207,789	13,853	1
ENERGY STAR Qualified Dehumidifier	46	$1,461	130,045	10,837	1					
ENERGY STAR Qualified Freezer	42	$1,328	46,734	3,116	0	29	$1,740	32,192	2,146	0
Appliance Recycling	150	$15,892	1,230,193	138,594	29	147	$18,002	1,311,033	146,147	30
Efficient Television	14	$711	27,872	2,323	1					
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	7	$5,060	232,389	7,746	1	15	$18,510	415,508	13,850	3
Advanced Lighting Package	2	$508	17,254	863	0					
Additional Low Income										
Energy Efficiency Kits	73	$3,082	741,220	82,358	9	487	$9,314	1,009,975	112,219	14
Weatherization Rebates	48	$36,251	1,975,958	65,865	8					
Building Shell - Existing Home Only										
Weatherization Rebates	130	$51,145	3,224,365	110,701	13	22	$13,263	592,566	20,067	2
Residential Total	**14,257**	**$399,010**	**38,526,198**	**2,749,547**	**964**	**20,322**	**$456,585**	**40,190,640**	**2,997,126**	**519**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Midland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	327	$833	176,948	49,152	20	858	$14,713	367,706	102,140	6
High Efficiency Interior Lighting	1,443	$24,928	3,286,038	467,730	7	8,103	$82,686	11,734,628	1,805,327	349
Exterior Lighting										
High Efficiency Exterior Lighting	141	$10,008	173,555	42,902	2					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	9	$1,815	13,316	888	1					
Water Cooled Chillers										
Geothermal Heat Pump	30	$13,337	899,183	44,959	4	5	$750	86,802	4,340	1
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)						17	$8,400	401,206	26,747	2
Heat Recovery Ventilators	10	$450	388,056	19,403	6	1	$279	38,529	1,926	1
Commercial Contractor Rebate (GS & AS)	37	$1,874				1	$850			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	17	$1,649	66,190	5,516	1					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$94	32,068	2,138	0					
Variable Speed Drive Motor Incentive	4	$3,048	1,488,920	99,261	9	1	$5,928	370,239	24,683	2
Agricultural										
Livestock Ventilation Fans	31	$3,936	209,143	17,429	5					
Ventilation Thermostat Controller	4	$128	10,884	907	0					
Circulating Fans --- BESS Lab Ratings	21	$1,051	79,961	6,663	2					
Efficient Livestock Waterers	20	$1,268	190,199	15,850						
Hog Farrowing - Heat Lamps (<= 175W)	33	$126	22,053	5,513						
Hog Farrowing - Single Crate Heating Pads (<=85W)	13	$414	26,047	2,605						
Hog Farrowing - Double Crate Heating Pads(<=170W)	3	$189	12,055	1,205						
Hog Farrowing - Heat Lamp or Pad Controller	2	$128	15,527	947						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$13,457	1,103,405	83,432	8					
Ag, Commercial and Industrial Total	**2,150**	**$78,732**	**8,193,547**	**866,500**	**63**	**8,986**	**$113,606**	**12,999,111**	**1,965,164**	**361**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$20,880			155					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	41	$18,625					$14,053			
Expert Energy Services - C&I	8	$31,549					$14,053			
Energy Audit Services - Residential *	453	$157,700					$715			
IV. Educational & Research Programs										
Model Housing Education	2	$17,500					$942			
Domestic Water Heater Enhancement	20	$2,500								
Member Information and Education	9,236	$103,023					$27,041			
Peak Alert	9,236	$2,369								
Living with Energy in Iowa	1,475	$7,788								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	9,236	$34,058					$41,817			
TOTAL	**46,115**	**$873,734**	**46,719,745**	**3,616,047**	**1,182**	**29,308**	**$668,812**	**53,189,751**	**4,962,290**	**880**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Midland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	57	$8,399	222,721	15,909	16	33	$5,579	155,845	11,132	12
ENERGY STAR Qualified Room Air Conditioner	10	$316	8,360	929	1					
Geothermal Heat Pump	56	$109,358	14,821,367	741,068	56	81	$136,875	21,413,579	1,070,679	74
Air Source Heat Pump	54	$42,167	6,337,715	422,514	34	46	$30,866	5,177,060	345,137	24
Heat Recovery Ventilators	9	$1,408	112,598	5,630		7	$1,094	87,022	4,351	
Residential Contractor Rebates	75	$15,750				98	$34,065			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,270	$2,938	605,106	82,891	76	14,326	$27,865	5,908,839	809,430	186
Local CFL Rebate Program(s)	9,844	$26,484	4,686,353	641,966	591	779	$1,329	369,833	50,662	52
ENERGY STAR CFL/LED Fixtures						108	$752	237,237	11,862	5
T8 or better Lighting Fixtures	65	$488	52,337	3,191	1	283	$5,089	308,421	18,806	4
ENERGY STAR LED lighting	20	$50	26,773	1,487	1	774	$6,844	1,030,311	57,240	34
ENERGY STAR Ceiling Fan	87	$2,407	261,640	14,536	3	4	$100	11,982	666	0
Exterior Lighting										
High Efficiency Exterior Lighting	65	$2,246	64,873	14,744	0	52	$1,747	121,633	27,644	0
LED Holiday Lighting	70	$175	65,268	5,439	18	35	$4	32,415	2,701	10
Residential Water Heating (low income included)										
High Efficiency Water Heater	230	$38,757	1,049,211	69,947	9	164	$50,268	784,918	52,328	8
Heat Pump Water Heater - (Add-On)	8	$3,019	153,794	15,379	2					
Heat Pump Water Heater - (Integrated)	22	$8,394	506,944	42,245	5	16	$9,675	367,296	30,608	4
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0					
Drain Water Heat Recovery System	1	$375	23,443	781	0					
Flow Restrictors - Faucet	242	$3,862	806,736	89,637	5	352	$774	893,786	99,310	6
Flow Restrictors - Shower	152	$5,433	960,308	96,031	8	177	$1,015	1,114,430	111,443	10
Tank Insulation	36	$687	61,246	6,125	0					
Pipe Insulation	126	$1,249	224,171	14,945	3	107		189,269	12,618	2
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	52	$5,965	209,195	19,018	7	66	$4,175	155,581	14,144	6
ENERGY STAR Qualified Dishwasher	78	$3,439	100,648	9,150	7	48	$1,458	61,830	5,621	5
ENERGY STAR Qualified Refrigerator	100	$3,415	157,623	10,508	1	71	$2,157	111,775	7,452	1
ENERGY STAR Qualified Dehumidifier	48	$1,519	135,699	11,308	1					
ENERGY STAR Qualified Freezer	42	$1,325	46,734	3,116	0	26	$792	28,861	1,924	0
Appliance Recycling	153	$16,510	1,268,763	142,812	29	54	$5,225	459,671	51,279	11
Efficient Television	14	$709	27,872	2,323	1					
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	7	$5,048	232,389	7,746	1	10	$5,125	270,125	9,004	2
Advanced Lighting Package	2	$506	17,254	863	0					
Additional Low Income										
Energy Efficiency Kits	44	$1,770	446,883	49,654	6	217	$2,579	915,284	101,698	13
Weatherization Rebates	48	$36,133	1,975,958	65,865	8					
Building Shell - Existing Home Only										
Weatherization Rebates	130	$51,011	3,224,365	110,701	13	20	$6,336	599,883	19,996	2
Residential Total	**13,218**	**$401,687**	**38,916,795**	**2,720,329**	**903**	**17,954**	**$341,788**	**40,806,886**	**2,927,734**	**470**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Midland Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	321	$814	173,749	48,264	19	741	$1,428	311,997	86,666	5
High Efficiency Interior Lighting	1,238	$25,680	2,417,585	360,745	5	1,912	$85,164	5,418,017	833,541	188
Exterior Lighting										
High Efficiency Exterior Lighting	143	$11,071	175,777	43,356	2					
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	9	$1,814	13,316	888	1	55	$1,719	80,922	5,395	4
Water Cooled Chillers										
Geothermal Heat Pump	24	$10,635	719,347	35,967	3	4	$1,750	183,116	9,156	1
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Heat Recovery Ventilators	11	$495	426,862	21,343	6					
Commercial Contractor Rebate (GS & AS)	31	$1,565								
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	14	$1,516	48,544	4,045	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$94	32,068	2,138	0					
Variable Speed Drive Motor Incentive	4	$2,438	1,488,920	99,261	9	5	$52,013	47,675,596	3,178,373	365
Agricultural										
Livestock Ventilation Fans	31	$2,571	207,624	17,302	5					
Ventilation Thermostat Controller	4	$127	10,884	907	0					
Circulating Fans --- BESS Lab Ratings	22	$851	85,862	7,155	2					
Efficient Livestock Waterers	21	$1,328	199,737	16,645						
Hog Farrowing - Heat Lamps (<= 175W)	33	$126	22,053	5,513						
Hog Farrowing - Single Crate Heating Pads (<=85W)	13	$413	26,047	2,605						
Hog Farrowing - Double Crate Heating Pads(<=170W)	3	$189	12,055	1,205						
Hog Farrowing - Heat Lamp or Pad Controller	2	$127	15,527	947						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$13,371	1,103,405	83,432	8	2	$29,920	8,059,102	963,955	192
Ag, Commercial and Industrial Total	**1,929**	**$75,226**	**7,179,360**	**751,718**	**61**	**2,719**	**$171,994**	**61,728,750**	**5,077,086**	**755**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$21,402			155					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	42	$19,304					$11,338			
Expert Energy Services - C&I	8	$32,008					$11,338			
Energy Audit Services - Residential *	466	$162,200					$710			
IV. Educational & Research Programs										
Model Housing Education	2	$17,500					$5,926			
Domestic Water Heater Enhancement	20	$2,500								
Member Information and Education	9,361	$81,078					$15,189			
Peak Alert	9,361	$11,929								
Living with Energy in Iowa	1,475	$7,788								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	9,361	$34,535					$41,664			
TOTAL	**45,244**	**$867,157**	**46,096,154**	**3,472,047**	**1,119**	**20,673**	**$599,947**	**102,535,636**	**8,004,819**	**1,225**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Humboldt County Rural Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	33	$6,040	140,000	39,091	10,000	10	$2,009	41,290	13,108	2,949
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	18	$30,620	4,780,415	929,525	239,021	18	$31,989	4,780,414	956,086	239,022
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	33	$23,595	3,887,908	1,021,067	259,194	16	$12,331	1,885,047	518,387	125,670
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	15	$2,340	187,812	36,310	9,391	3	$479	37,563	8,138	1,878
Residential Contractor Rebates	Incentive for heat pump installs	45	$11,250				15	$3,438			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	850	$2,125	406,365	225,941	55,667	794	$2,273	379,593	233,471	51,999
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	5,400	$20,250	2,581,616	1,440,780	353,646	5,446	$20,650	2,603,607	1,603,327	356,659
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	151	$1,133	126,409	29,670	7,708	43	$327	36,299	7,460	2,213
ENERGY STAR LED lighting	Rebate for LED lighting.	45	$113	60,240	12,643	3,347	22	$83	29,451	5,801	1,636
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	18	$112	18,022	15,929	4,096	33	$197	33,040	37,546	7,509
LED Holiday Lighting	Rebate for holiday lighting.	195	$488	181,818	59,829	15,152	46	$654	42,890	14,065	3,575
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	135	$27,500	644,438	171,156	42,963	88	$19,309	423,393	110,685	28,226
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	6	$2,250	115,551	42,369	11,555		$2			
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	6	$2,250	138,661	42,369	11,555		$11			
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	2	$750	44,888	13,092	3,741					
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	490	$4,101	1,634,963	722,943	181,663	134	$932	447,113	209,836	49,678
Flow Restrictors - Shower	Incentive for low-flow shower head.	245	$4,104	1,550,115	616,883	155,012	67	$932	423,909	179,055	42,391
Pipe Insulation	Incentive for water pipe insulation.	285	$1,781	507,742	139,555	33,849					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	16	$1,040	39,072	14,208	3,552	69	$4,550	168,498	61,494	15,318
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	32	$1,000	41,416	14,943	3,765	27	$892	34,945	12,473	3,177
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	32	$1,000	50,616	13,392	3,374	52	$1,713	82,251	21,197	5,484
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	32	$1,000	35,698	9,445	2,380	11	$377	12,272	3,273	818
Appliance Recycling	Incentives for appliance recycling.	93	$6,600	596,416	271,649	68,447	100	$8,645	840,360	382,006	94,394
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	3	$3,750	99,900	9,990	2,220		$52			
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	33	$1,031	335,604	146,897	37,289		$69			
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	60	$30,000	2,025,756	283,117	70,779	34	$9,005	1,008,775	146,257	34,383
Residential Total		**8,273**	**$186,222**	**20,231,441**	**6,322,792**	**1,589,363**	**7,028**	**$120,919**	**13,310,710**	**4,523,664**	**1,066,977**
Percentage of 5 year plan goal - Residential								**65%**	**66%**		**67%**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	230	$575	124,995	120,768	34,721	36	$75	19,565	20,230	5,435
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	755	$17,674	2,091,009	1,157,575	295,266	5,123	$27,114	8,008,788	6,746,021	1,491,716
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	15	$94	16,725	13,653	3,413	14	$64	15,610	15,929	3,186
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.						1	$13,057	815,939	163,188	40,797
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.						1	$139	3,463	924	231
Agricultural											
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	3	$969	90,350	29,231	7,529					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	15	$969	67,706	21,905	5,642					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	4	$252	38,148	11,921	3,179	1	$69	9,537	3,180	795
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	9	$36	6,034	6,034	1,508					
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	9	$288	18,082	7,233	1,808					
Hog Farrowing - Double Crate Heating Pads(<=170W)	Rebate for double crate heating pads.	9	$567	36,164	14,466	3,616					
Ag, Commercial and Industrial Total		**1,049**	**$21,424**	**2,489,212**	**1,382,785**	**356,683**	**5,176**	**$40,518**	**8,872,902**	**6,949,471**	**1,542,160**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**189%**	**356%**		**432%**
II. Demand Response Programs											
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	3	$1,875				3	$3,152			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	6	$3,750				2	$11,320			
Energy Audit Services - Residential *	Energy Audit Services - Residential	47	$14,100				8	$2,378			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.						2	$1,038			
Domestic Water Heater Enhancement	Domestic Water Heater Enhancement	60	$7,500								
Member Information and Education	Member Information and Education	4,425	$21,904				4,351	$43,831			
Peak Alert	Peak Alert	4,425	$1,106								
Living with Energy in Iowa	Living with Energy in Iowa magazine.	4,425	$23,364				4,351	$10,597			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,425	$14,799				4,351	$16,740			
TOTAL		**27,138**	**$296,043**	**22,720,653**	**7,705,577**	**1,946,046**	**25,272**	**$250,494**	**22,183,612**	**11,473,135**	**2,609,137**
Percentage of 5 year plan goal achieved								**85%**	**98%**		**134%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Humboldt County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	9	$1,536	38,182	2,727	3	6	1,220	25,455	1,818	2
Geothermal Heat Pump	5	$8,685	1,327,893	66,395	8	7	$12,736	1,859,050	92,953	12
Air Source Heat Pump	10	$7,150	1,178,154	78,544	10	7	$5,368	824,708	54,981	8
Heat Recovery Ventilators	4	$624	50,083	2,504		2	$331	25,042	1,252	
Residential Contractor Rebates	15	$3,750				15	$2,847			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	300	$750	143,423	19,647	18	422	$1,249	201,748	27,637	28
Local CFL Rebate Program(s)	2,000	$7,500	956,154	130,980	120	2,726	$9,895	1,303,238	178,526	182
T8 or better Lighting Fixtures	41	$308	32,840	2,002	1		$4			
ENERGY STAR LED lighting	10	$25	13,387	744	0	6	$20	8,032	446	0
Exterior Lighting										
High Efficiency Exterior Lighting	5	$31	5,006	1,138	0	33	$197	33,040	7,509	0
LED Holiday Lighting	60	$150	55,944	4,662	15	5	$155	4,662	389	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	45	$8,750	207,875	13,858	2	26	$5,797	125,424	8,362	1
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0		$2			
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0		$3			
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	160	$1,339	533,866	59,318	3	52	$351	173,506	19,278	1
Flow Restrictors - Shower	80	$1,340	506,160	50,616	4	26	$351	164,502	16,450	1
Pipe Insulation	120	$750	213,786	14,252	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$325	12,210	1,110	0	24	$1,624	58,608	5,328	2
ENERGY STAR Qualified Dishwasher	10	$313	12,943	1,177	1	9	$310	11,648	1,059	1
ENERGY STAR Qualified Refrigerator	10	$313	15,818	1,055	0	13	$448	20,563	1,371	0
ENERGY STAR Qualified Freezer	10	$313	11,156	744	0	3	$103	3,347	223	0
Appliance Recycling	30	$2,063	186,380	21,390	6	40	$2,958	328,348	36,960	8
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0		$2			
Additional Low Income										
Energy Efficiency Kits	10	$313	101,698	11,300	1		$11			
Building Shell - Existing Home Only										
Weatherization Rebates	20	$10,000	675,252	23,593	1	14	$4,079	499,750	17,113	2
Residential Total	**2,962**	**$58,325**	**6,353,877**	**512,717**	**197**	**3,436**	**$50,061**	**5,670,671**	**471,653**	**251**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	220	$5,214	620,956	87,557	2	3,762	$12,008	3,462,438	884,814	14
Exterior Lighting										
High Efficiency Exterior Lighting	5	$31	5,575	1,138	0	14	$64	15,610	3,186	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Agricultural										
Livestock Ventilation Fans	1	$285	26,573	2,214	1					
Circulating Fans --- BESS Lab Ratings	5	$285	19,913	1,659	1					
Efficient Livestock Waterers	1	$63	9,537	795						
Hog Farrowing - Heat Lamps (<= 175W)	3	$12	2,011	503						
Hog Farrowing - Single Crate Heating Pads (<=85W)	3	$96	6,027	603						
Hog Farrowing - Double Crate Heating Pads(<=170W)	3	$189	12,055	1,205						
Ag, Commercial and Industrial Total	**241**	**$6,175**	**702,648**	**95,674**	**3**	**3,776**	**$12,072**	**3,478,048**	**888,000**	**15**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$625				3	$512			
Expert Energy Services - C&I	2	$1,250				2	$2,904			
Energy Audit Services - Residential *	15	$4,500				5	$1,745			
IV. Educational & Research Programs										
Model Housing Education						2	$592			
Domestic Water Heater Enhancement	20	$2,500								
Member Information and Education	1,475	$7,301				1,469	$26,293			
Peak Alert	1,475	$369								
Living with Energy in Iowa	1,475	$7,788				1,469	$3,970			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,475	$4,933				1,469	$5,280			
TOTAL	**9,141**	**$93,766**	**7,056,525**	**608,391**	**199**	**11,631**	**$103,430**	**9,148,719**	**1,359,653**	**265**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progra

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Humboldt County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	12	$2,252	50,909	3,636	4	2	$533	8,733	624	
Geothermal Heat Pump	6	$10,125	1,593,472	79,674	9	4	$10,026	1,062,314	53,116	7
Air Source Heat Pump	11	$7,865	1,295,969	86,398	11	4	$3,973	471,262	31,417	5
Heat Recovery Ventilators	5	$780	62,604	3,130			$22			
Residential Contractor Rebates	15	$3,750					$591			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	300	$750	143,423	19,647	18	339	$889	162,068	22,201	23
Local CFL Rebate Program(s)	1,800	$6,750	860,539	117,882	108	2,692	$10,707	1,286,983	176,299	179
T8 or better Lighting Fixtures	50	$375	41,687	2,542	1	10	$123	13,471	821	
ENERGY STAR LED lighting	15	$38	20,080	1,116	1		$2			
Exterior Lighting										
High Efficiency Exterior Lighting	6	$38	6,007	1,365	0					
LED Holiday Lighting	65	$163	60,606	5,051	16	33	$482	30,769	2,564	9
Residential Water Heating (low income included)										
High Efficiency Water Heater	45	$9,375	218,282	14,552	2	30	$6,618	139,278	9,285	1
Heat Pump Water Heater - (Add-On)	2	$750	38,517	3,852	0					
Heat Pump Water Heater - (Integrated)	2	$750	46,220	3,852	0		$8			
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0					
Flow Restrictors - Faucet	160	$1,339	533,866	59,318	3	60	$468	200,200	22,244	1
Flow Restrictors - Shower	80	$1,340	506,160	50,616	4	30	$468	189,810	18,981	2
Pipe Insulation	80	$500	142,524	9,502	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	6	$390	14,652	1,332	0	22	$1,763	53,724	4,884	2
ENERGY STAR Qualified Dishwasher	11	$344	14,237	1,294	1	7	$304	9,060	824	1
ENERGY STAR Qualified Refrigerator	11	$344	17,399	1,160	0	19	$760	30,053	2,004	
ENERGY STAR Qualified Freezer	11	$344	12,271	818	0	5	$198	5,578	372	
Appliance Recycling	30	$2,269	205,018	23,529	6	27	$2,947	221,705	24,906	5
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0		$47			
Additional Low Income										
Energy Efficiency Kits	11	$344	111,868	12,430	1		$55			
Building Shell - Existing Home Only										
Weatherization Rebates	20	$10,000	675,252	23,593	1	9	$3,036	257,376	8,883	
Residential Total	**2,756**	**$62,597**	**6,727,306**	**529,268**	**191**	**3,293**	**$44,020**	**4,142,384**	**379,425**	**235**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	110	$275	59,780	16,606	7	26	$57	14,130	3,925	2
High Efficiency Interior Lighting	245	$5,866	688,173	96,664	2	710	$10,234	3,859,569	501,243	9
Exterior Lighting										
High Efficiency Exterior Lighting	5	$31	5,575	1,138	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump						1	$13,057	815,939	40,797	6
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater						1	$139	3,463	231	
Agricultural										
Livestock Ventilation Fans	1	$285	26,573	2,214	1					
Circulating Fans --- BESS Lab Ratings	5	$285	19,913	1,659	1					
Efficient Livestock Waterers	1	$63	9,537	795		1	$69	9,537	795	
Hog Farrowing - Heat Lamps (<= 175W)	3	$12	2,011	503						
Hog Farrowing - Single Crate Heating Pads (<=85W)	3	$96	6,027	603						
Hog Farrowing - Double Crate Heating Pads(<=170W)	3	$189	12,055	1,205						
Ag, Commercial and Industrial Total	**376**	**$7,103**	**829,646**	**121,387**	**9**	**739**	**$23,556**	**4,702,638**	**546,991**	**17**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$625								
Expert Energy Services - C&I	2	$1,250					$5,776			
Energy Audit Services - Residential *	15	$4,500				3	$631			
IV. Educational & Research Programs										
Model Housing Education							$262			
Domestic Water Heater Enhancement	20	$2,500								
Member Information and Education	1,475	$7,301				1,442	$11,533			
Peak Alert	1,475	$369								
Living with Energy in Iowa	1,475	$7,788				1,442	$3,888			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,475	$4,933				1,442	$5,525			
TOTAL	**9,070**	**$98,966**	**7,556,952**	**650,655**	**200**	**8,361**	**$95,191**	**8,845,022**	**926,416**	**252**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progra

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Humboldt County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	12	$2,252	50,909	3,636	4	2	256	7,102	507	
Geothermal Heat Pump	7	$11,810	1,859,050	92,953	11	7	$9,227	1,859,050	92,953	12
Air Source Heat Pump	12	$8,580	1,413,785	94,252	12	5	$2,990	589,077	39,272	6
Heat Recovery Ventilators	6	$936	75,125	3,756		1	$126	12,521	626	
Residential Contractor Rebates	15	$3,750								
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	250	$625	119,519	16,373	15	33	$135	15,777	2,161	2
Local CFL Rebate Program(s)	1,600	$6,000	764,923	104,784	96	28	$48	13,386	1,834	2
T8 or better Lighting Fixtures	60	$450	51,881	3,164	1	33	$200	22,828	1,392	
ENERGY STAR LED lighting	20	$50	26,773	1,487	1	16	$61	21,419	1,190	1
Exterior Lighting										
High Efficiency Exterior Lighting	7	$43	7,009	1,593	0					
LED Holiday Lighting	70	$175	65,268	5,439	18	8	$17	7,459	622	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	45	$9,375	218,282	14,552	2	32	$6,894	158,691	10,579	1
Heat Pump Water Heater - (Add-On)	3	$1,125	57,776	5,778	1					
Heat Pump Water Heater - (Integrated)	3	$1,125	69,331	5,778	1					
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0					
Flow Restrictors - Faucet	170	$1,423	567,232	63,026	3	22	$113	73,407	8,156	
Flow Restrictors - Shower	85	$1,424	537,795	53,780	4	11	$113	69,597	6,960	1
Pipe Insulation	85	$531	151,432	10,095	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$325	12,210	1,110	0	23	$1,163	56,166	5,106	2
ENERGY STAR Qualified Dishwasher	11	$344	14,237	1,294	1	11	$278	14,237	1,294	1
ENERGY STAR Qualified Refrigerator	11	$344	17,399	1,160	0	20	$505	31,635	2,109	
ENERGY STAR Qualified Freezer	11	$344	12,271	818	0	3	$76	3,347	223	
Appliance Recycling	33	$2,269	205,018	23,529	6	33	$2,740	290,307	32,528	7
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300		0		$3			
Additional Low Income										
Energy Efficiency Kits	12	$375	122,038	13,560	2		$3			
Building Shell - Existing Home Only										
Weatherization Rebates	20	$10,000	675,252	23,593	1	11	$1,890	251,649	8,387	1
Residential Total	**2,555**	**$65,299**	**7,150,258**	**547,379**	**181**	**299**	**$26,838**	**3,497,655**	**215,899**	**38**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	120	$300	65,215	18,115	7	10	$18	5,435	1,510	1
High Efficiency Interior Lighting	290	$6,594	781,880	111,044	2	651	$4,872	686,781	105,659	44
Exterior Lighting										
High Efficiency Exterior Lighting	5	$31	5,575	1,138	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Agricultural										
Livestock Ventilation Fans	1	$399	37,203	3,100	1					
Circulating Fans --- BESS Lab Ratings	5	$399	27,879	2,323	1					
Efficient Livestock Waterers	2	$126	19,074	1,590						
Hog Farrowing - Heat Lamps (<= 175W)	3	$12	2,011	503						
Hog Farrowing - Single Crate Heating Pads (<=85W)	3	$96	6,027	603						
Hog Farrowing - Double Crate Heating Pads(<=170W)	3	$189	12,055	1,205						
Ag, Commercial and Industrial Total	**432**	**$8,146**	**956,918**	**139,621**	**11**	**661**	**$4,890**	**692,216**	**107,169**	**45**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$625					$2,640			
Expert Energy Services - C&I	2	$1,250					$2,640			
Energy Audit Services - Residential *	17	$5,100					$2			
IV. Educational & Research Programs										
Model Housing Education							$184			
Domestic Water Heater Enhancement	20	$2,500								
Member Information and Education	1,475	$7,301				1,440	$6,005			
Peak Alert	1,475	$369								
Living with Energy in Iowa	1,475	$7,788				1,440	$2,739			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,475	$4,933				1,440	$5,935			
TOTAL	**8,927**	**$103,311**	**8,107,176**	**687,000**	**192**	**5,280**	**$51,873**	**4,189,871**	**323,068**	**133**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progra

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Nishnabotna Valley Rural Electric Cooperative (NVREC) was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of NVREC and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant. NVREC developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for NVREC, and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including NVREC.

NVREC offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. NVREC offers programs for residential member-consumers in the form of prescriptive rebates on energy efficient product and equipment installations including lighting, low flow shower heads, heating, cooling, water heaters and appliances. An appliance recycling program is also available to our member-consumers. NVREC offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial and agricultural member-consumers of NVREC, we

offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. One example is the incentives available to install energy efficient motors. NVREC Cooperative also offers energy audits for all member-consumers.

In addition to the rebate opportunities, NVREC offers demand response programs that help us to be both environmentally and fiscally responsible. These programs are water heater load control, air conditioning load control, and a special load control program that reduces member-consumer coincident peak demand needs. In addition to providing a rebate for installing the equipment, the demand response programs allow member-consumers to purchase electricity for this equipment at a reduced rate and/or avoid coincident demand charges, in exchange for our ability to curtail load during peak times.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, NVREC is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. NVREC publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. NVREC consistently shares the energy efficiency message on our website, in our bill stuffers, on our Facebook page, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), NVREC has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which NVREC participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to

leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for NVREC. NVREC has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Nishnabotna Valley Rural Electric Cooperative	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	38	$6,726	155,680	29,216	11,120	17	$1,913	60,746	11,241	4,339
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	42	$1,307	33,147	9,909	3,683	5	$182	3,946	963	438
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	45	$112,141	11,951,037	1,659,866	597,552	123	$222,766	32,666,169	4,780,415	1,633,308
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	265	$198,560	31,221,081	6,212,799	2,081,405	89	$44,106	10,485,570	2,144,240	699,038
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	12,334	$27,751	5,896,602	2,147,286	807,754					
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.						25,317	$61,085	12,103,476	4,357,508	1,658,010
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.						321	$1,701	222,052	33,659	13,540
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	361	$90,176	1,755,959	349,390	117,064	263	$76,747	921,579	185,376	61,438
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	290	$3,085	967,631	322,544	107,515					
Flow Restrictors - Shower	Incentive for low-flow shower head.	145	$1,545	917,415	275,225	91,742					
Tank Insulation	Incentive for water heater tank insulation.	145	$1,545	247,863	74,359	24,786					
Pipe Insulation	Incentive for water pipe insulation.	145	$1,545	258,325	51,665	17,222					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	40	$2,471	97,680	23,532	8,880	131	$9,970	405,861	109,654	36,896
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	244	$7,579	315,799	76,126	28,709	82	$3,246	106,130	26,826	9,648
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	196	$6,121	310,023	54,834	20,668	144	$5,701	227,773	46,081	15,185
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	291	$9,089	324,625	57,339	21,642	40	$1,627	44,622	8,849	2,974
Appliance Recycling	Incentives for appliance recycling.	415	$24,995	3,678,851	1,221,347	409,102	82	$3,459	710,996	342,047	79,680
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	125	$5,330	1,271,228	423,743	141,248	639	$13,808	6,498,515	2,052,043	722,057
Weatherization Rebates	Rebates for various insulation measures.						25	$15,553	1,294,538	115,646	43,151
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	119	$73,946	5,436,824	455,353	181,227	49	$38,135	2,183,582	214,231	72,787
Residential Total		**15,240**	**$573,912**	**64,839,770**	**13,444,533**	**4,671,317**	**27,327**	**$499,999**	**67,935,553**	**14,428,778**	**5,052,490**
Percentage of 5 year plan goal - Residential								**87%**	**105%**		**108%**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	1,422	$2,844	772,794	570,931	214,665					
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	2,889	$6,279	2,715,809	1,563,603	587,102	1,682	$10,315	3,267,985	1,047,518	470,782
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	5	$8,150	86,802	13,020	4,340					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	10	$7,400	261,738	52,348	17,449					
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	25	$4,775	138,611	27,722	9,241					
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	335	$133,950	3,580,916	716,183	238,728					
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	105	$6,345	39,153,807	7,830,761	2,610,254	4	$21,960	5,419,142	1,204,806	361,276
Agricultural											
Ag, Commercial and Industrial Total		**4,791**	**$169,743**	**46,710,478**	**10,774,568**	**3,681,779**	**1,686**	**$32,275**	**8,687,127**	**2,252,324**	**832,058**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**19%**	**19%**		**23%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	9,402	$957,856				8,505	$1,471,309			
Air Conditioning Load Control	Load control for air conditioning	5,881	$559,756				5,736	$1,002,022			
Space Heating Load Control (Interruptible)	Load control for space heating.	5,911	$574,714				999	$108,250			
Dual-Fuel Space Heating	Duel fuel space heating	3,355	$386,019				671	$72,708			
Industrial Interruptible Price	Industrial Interruptible Price						38	$8,097			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	5	$1,250								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	5	$1,250				20	$3,602			
Energy Audit Services - Residential *	Energy Audit Services - Residential	25	$2,500								
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	13,000	$50,000								
Domestic Water Heater Enhancement	Domestic Water Heater Enhancement	13,000	$30,000								
Member Information and Education	Member Information and Education	13,000	$141,750				12,735	$377,453			
Peak Alert	Peak Alert	13,000	$250								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	13,000	$67,500				12,735	$75,842			
TOTAL		**109,615**	**$3,516,500**	**111,550,247**	**24,219,101**	**8,353,096**	**70,452**	**$3,651,557**	**76,622,679**	**16,681,102**	**5,884,548**
Percentage of 5 year plan goal achieved								**104%**	**69%**		**70%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Nishnabotna Valley Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	5	$876	19,829	1,416	2	3	300	7,770	555	1
ENERGY STAR Qualified Room Air Conditioner	6	$172	4,735	526	1					
Geothermal Heat Pump	7	$17,536	1,859,050	92,953	11	16	$48,000	4,249,258	212,463	27
Air Source Heat Pump	52	$38,888	6,126,401	408,427	53	17	$13,500	2,002,862	133,524	19
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,629	$3,665	778,787	106,683	98					
Local CFL Rebate Program(s)						1,701	$6,108	813,209	111,398	113
T8 or better Lighting Fixtures										
Residential Water Heating (low income included)										
High Efficiency Water Heater	71	$17,706	345,787	23,052	3	50	$15,000	173,160	11,544	2
Flow Restrictors - Faucet	58	$617	193,526	21,503	1					
Flow Restrictors - Shower	29	$309	183,483	18,348	1					
Tank Insulation	29	$309	49,573	4,957	0					
Pipe Insulation	29	$309	51,665	3,444	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$323	12,210	1,110	0	21	$1,575	65,385	5,944	2
ENERGY STAR Qualified Dishwasher	32	$990	41,416	3,765	3	13	$488	16,825	1,530	1
ENERGY STAR Qualified Refrigerator	26	$800	41,126	2,742	0	30	$1,125	47,453	3,164	0
ENERGY STAR Qualified Freezer	38	$1,189	42,391	2,826	0	6	$225	6,693	446	0
Appliance Recycling	82	$4,936	726,459	80,786	14	44	$1,650	393,027	43,874	9
Additional Low Income										
Energy Efficiency Kits	25	$1,066	254,246	28,250	3	100	$3,376	1,016,982	112,998	14
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	12	$7,530	548,251	18,275	1	14	$8,494	625,640	20,855	2
Residential Total	**2,135**	**$97,221**	**11,278,936**	**819,063**	**192**	**2,015**	**$99,841**	**9,418,263**	**658,294**	**191**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	188	$376	102,170	28,380	11					
High Efficiency Interior Lighting	385	$871	361,084	78,043	1					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,630	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,480	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$955	27,722	1,848	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	67	$26,790	716,183	47,746	6					
Variable Speed Drive Motor Incentive	21	$1,269	7,830,761	522,051	45					
Agricultural										
Ag, Commercial and Industrial Total	**669**	**$33,371**	**9,107,628**	**682,426**	**64**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	1,736	$180,417			868	1,665	$180,417			924
Air Conditioning Load Control	1,037	$105,433			726	973	$105,433			756
Space Heating Load Control (Interruptible)	1,058	$108,250			4,761	999	$108,250			4,990
Dual-Fuel Space Heating	671	$72,708			4,026	671	$72,708			4,469
Industrial Interruptible Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$250								
Expert Energy Services - C&I	1	$250								
Energy Audit Services - Residential *	5	$500								
IV. Educational & Research Programs										
Model Housing Education	2,580	$10,000								
Domestic Water Heater Enhancement	2,580	$6,000								
Member Information and Education	2,580	$28,350				2,570	$85,927			
Peak Alert	2,580	$50								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,580	$12,500				2,570	$12,507			
TOTAL	**20,213**	**$655,300**	**20,386,564**	**1,501,489**	**10,637**	**11,463**	**$665,083**	**9,418,263**	**658,294**	**11,330**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Nishnabotna Valley Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	6	$1,108	25,455	1,818	2	3		9,324	666	1
ENERGY STAR Qualified Room Air Conditioner	7	$216	5,524	614	1					
Geothermal Heat Pump	8	$19,975	2,124,629	106,231	12	11	$32,700	2,921,365	146,068	19
Air Source Heat Pump	53	$39,373	6,244,216	416,281	54	8	$6,300	942,523	62,835	9
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,043	$4,598	976,711	133,796	123					
Local CFL Rebate Program(s)						3,984	$7,110	1,904,659	260,912	265
T8 or better Lighting Fixtures						60	$405	41,505	2,531	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	71	$17,893	345,787	23,052	3	53	$15,900	183,550	12,237	2
Flow Restrictors - Faucet	58	$617	193,526	21,503	1					
Flow Restrictors - Shower	29	$309	183,483	18,348	1					
Tank Insulation	29	$309	49,573	4,957	0					
Pipe Insulation	29	$309	51,665	3,444	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	7	$408	17,094	1,554	1	32	$2,400	97,619	8,874	3
ENERGY STAR Qualified Dishwasher	40	$1,250	51,770	4,706	4	15	$563	19,414	1,765	1
ENERGY STAR Qualified Refrigerator	32	$1,010	50,616	3,374	0	29	$1,088	45,871	3,058	
ENERGY STAR Qualified Freezer	48	$1,500	53,546	3,570	0	9	$338	10,040	669	
Appliance Recycling	82	$4,967	726,459	80,786	14	21	$788	201,965	22,508	4
Additional Low Income										
Energy Efficiency Kits	25	$1,066	254,246	28,250	3	99	$2,238	1,006,812	111,868	14
Weatherization Rebates						2	$1,125	103,563	3,452	
Building Shell - Existing Home Only										
Weatherization Rebates	18	$11,114	822,377	27,413	2	6	$10,172	274,126	9,138	1
Residential Total	**2,585**	**$106,022**	**12,176,678**	**879,698**	**222**	**4,332**	**$81,127**	**7,762,336**	**646,581**	**320**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	236	$471	128,256	35,627	14					
High Efficiency Interior Lighting	481	$1,060	451,745	97,650	1	311	$1,899	433,031	67,661	1
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,630	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,480	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$955	27,722	1,848	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	67	$26,790	716,183	47,746	6					
Variable Speed Drive Motor Incentive	21	$1,269	7,830,761	522,051	45	2	$8,760	1,814,667	120,978	12
Agricultural										
Ag, Commercial and Industrial Total	**813**	**$33,655**	**9,224,376**	**709,279**	**67**	**313**	**$10,659**	**2,247,698**	**188,639**	**13**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	1,807	$185,829			904	1,700	$267,284			944
Air Conditioning Load Control	1,104	$108,596			773	1,110	$174,520			862
Space Heating Load Control (Interruptible)	1,119	$111,497			5,036					
Dual-Fuel Space Heating	671	$74,890			4,026					
Industrial Interruptible Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$250								
Expert Energy Services - C&I	1	$250								
Energy Audit Services - Residential *	5	$500								
IV. Educational & Research Programs										
Model Housing Education	2,590	$10,000								
Domestic Water Heater Enhancement	2,590	$6,000								
Member Information and Education	2,590	$28,350				2,556	$82,082			
Peak Alert	2,590	$50								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,590	$13,000				2,556	$14,074			
TOTAL	**21,056**	**$678,889**	**21,401,053**	**1,588,977**	**11,027**	**12,567**	**$629,746**	**10,010,034**	**835,220**	**2,139**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Nishnabotna Valley Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,344	32,556	2,325	3	4	188	15,975	1,141	1
ENERGY STAR Qualified Room Air Conditioner	8	$261	6,314	702	1	2	$69	1,578	175	
Geothermal Heat Pump	9	$22,440	2,390,207	119,510	14	61	$37,366	16,200,295	810,015	104
Air Source Heat Pump	53	$39,809	6,244,216	416,281	54	40	$8,856	4,712,616	314,174	45
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,464	$5,544	1,177,982	161,367	148					
Local CFL Rebate Program(s)						2,832	$6,485	1,353,914	185,468	189
T8 or better Lighting Fixtures						36	$144	24,903	1,518	
Residential Water Heating (low income included)										
High Efficiency Water Heater	73	$18,065	354,795	23,653	3	68	$18,247	233,767	15,584	2
Flow Restrictors - Faucet	58	$617	193,526	21,503	1					
Flow Restrictors - Shower	29	$309	183,483	18,348	1					
Tank Insulation	29	$309	49,573	4,957	0					
Pipe Insulation	29	$309	51,665	3,444	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	8	$493	19,536	1,776	1	25	$2,020	77,839	7,076	3
ENERGY STAR Qualified Dishwasher	49	$1,514	63,419	5,765	4	14	$694	18,120	1,647	1
ENERGY STAR Qualified Refrigerator	39	$1,222	61,688	4,113	0	25	$1,238	39,544	2,636	
ENERGY STAR Qualified Freezer	58	$1,815	64,702	4,313	1	11	$539	12,271	818	
Appliance Recycling	83	$4,998	737,269	81,987	14	9	$300	53,364	6,202	2
Additional Low Income										
Energy Efficiency Kits	25	$1,066	254,246	28,250	3	140	$2,393	1,423,775	158,197	20
Weatherization Rebates						15	$8,657	776,723	25,891	3
Building Shell - Existing Home Only										
Weatherization Rebates	24	$14,741	1,096,502	36,550	3	6	$3,399	274,126	9,138	1
Residential Total	**3,046**	**$114,856**	**12,981,678**	**934,845**	**252**	**3,288**	**$90,595**	**25,218,810**	**1,539,680**	**371**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	284	$568	154,342	42,873	17					
High Efficiency Interior Lighting	577	$1,254	542,406	117,257	2	548	$2,450	763,026	119,223	2
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,630	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,480	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$955	27,722	1,848	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	67	$26,790	716,183	47,746	6					
Variable Speed Drive Motor Incentive	21	$1,269	7,830,761	522,051	45	2	$13,200	3,604,475	240,298	23
Agricultural										
Ag, Commercial and Industrial Total	**957**	**$33,946**	**9,341,123**	**736,132**	**70**	**550**	**$15,650**	**4,367,501**	**359,521**	**25**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	1,880	$191,404			940	1,695	$368,748			941
Air Conditioning Load Control	1,174	$111,853			822	1,089	$236,912			846
Space Heating Load Control (Interruptible)	1,181	$114,842			5,315					
Dual-Fuel Space Heating	671	$77,136			4,026					
Industrial Interruptible Price						10	$2,176			73
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$250								
Expert Energy Services - C&I	1	$250								
Energy Audit Services - Residential *	5	$500								
IV. Educational & Research Programs										
Model Housing Education	2,600	$10,000								
Domestic Water Heater Enhancement	2,600	$6,000								
Member Information and Education	2,600	$28,350				2,543	$76,718			
Peak Alert	2,600	$50								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,600	$13,500				2,543	$15,528			
TOTAL	**21,916**	**$702,938**	**22,322,801**	**1,670,977**	**11,424**	**11,718**	**$806,327**	**29,586,311**	**1,899,201**	**2,256**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Nishnabotna Valley Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,577	32,556	2,325	3	1	$300	5,625	402	0
ENERGY STAR Qualified Room Air Conditioner	10	$306	7,892	877	1	2	$75	1,578	175	0
Geothermal Heat Pump	10	$24,815	2,655,786	132,789	15	18	$54,000	4,780,415	239,021	31
Air Source Heat Pump	53	$40,020	6,244,216	416,281	54	12	$9,150	1,413,785	94,252	14
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,881	$6,482	1,377,340	188,677	173					
Local CFL Rebate Program(s)						16,800	$41,382	8,031,694	1,100,232	1,119
T8 or better Lighting Fixtures						225	$1,152	155,644	9,491	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	73	$18,167	354,795	23,653	3	41	$12,300	148,235	9,882	1
Flow Restrictors - Faucet	58	$617	193,526	21,503	1					
Flow Restrictors - Shower	29	$309	183,483	18,348	1					
Tank Insulation	29	$309	49,573	4,957	0					
Pipe Insulation	29	$309	51,665	3,444	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	9	$579	21,978	1,998	1	29	$2,175	90,293	8,208	3
ENERGY STAR Qualified Dishwasher	57	$1,776	73,773	6,707	5	21	$788	27,179	2,471	2
ENERGY STAR Qualified Refrigerator	46	$1,434	72,761	4,851	0	36	$1,350	56,943	3,796	0
ENERGY STAR Qualified Freezer	68	$2,130	75,857	5,057	1	6	$225	6,693	446	0
Appliance Recycling	84	$5,031	744,332	82,772	14	7	$578	61,875	6,943	1
Additional Low Income										
Energy Efficiency Kits	25	$1,066	254,246	28,250	3	200	$3,867	2,033,964	225,996	29
Weatherization Rebates						6	$4,298	310,689	10,356	1
Building Shell - Existing Home Only										
Weatherization Rebates	30	$18,418	1,370,628	45,688	4	9	$6,135	370,063	12,335	1
Residential Total	**3,499**	**$123,345**	**13,764,406**	**988,176**	**280**	**17,413**	**$137,775**	**17,494,676**	**1,724,008**	**1,206**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	332	$664	180,427	50,119	20					
High Efficiency Interior Lighting	673	$1,446	633,068	136,864	2	368	$2,559	973,418	135,307	2
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,630	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,480	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$955	27,722	1,848	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	67	$26,790	716,183	47,746	6					
Variable Speed Drive Motor Incentive	21	$1,269	7,830,761	522,051	45					
Agricultural										
Ag, Commercial and Industrial Total	**1,101**	**$34,234**	**9,457,870**	**762,985**	**74**	**368**	**$2,559**	**973,418**	**135,307**	**2**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	1,953	$197,146			977	1,728	$345,642			959
Air Conditioning Load Control	1,245	$115,209			872	1,174	$234,829			912
Space Heating Load Control (Interruptible)	1,244	$118,288			5,598					
Dual-Fuel Space Heating	671	$79,450			4,026					
Industrial Interruptible Price						14	$3,400			103
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$250								
Expert Energy Services - C&I	1	$250								
Energy Audit Services - Residential *	5	$500								
IV. Educational & Research Programs										
Model Housing Education	2,610	$10,000								
Domestic Water Heater Enhancement	2,610	$6,000								
Member Information and Education	2,610	$28,350				2,541	$63,666			
Peak Alert	2,610	$50								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,610	$14,000				2,541	$16,705			
TOTAL	**22,770**	**$727,072**	**23,222,276**	**1,751,162**	**11,826**	**25,779**	**$804,576**	**18,468,093**	**1,859,314**	**3,182**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Nishnabotna Valley Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	11	$1,821	45,284	3,235	3	6	$1,125	22,051	1,575	2
ENERGY STAR Qualified Room Air Conditioner	11	$352	8,681	965	1	1	$38	789	88	0
Geothermal Heat Pump	11	$27,375	2,921,365	146,068	17	17	$50,700	4,514,836	225,742	29
Air Source Heat Pump	54	$40,470	6,362,032	424,135	55	12	$6,300	1,413,785	94,252	14
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	3,317	$7,462	1,585,781	217,230	199					
Local CFL Rebate Program(s)										
T8 or better Lighting Fixtures										
Residential Water Heating (low income included)										
High Efficiency Water Heater	73	$18,345	354,795	23,653	3	51	$15,300	182,867	12,191	2
Flow Restrictors - Faucet	58	$617	193,526	21,503	1					
Flow Restrictors - Shower	29	$309	183,483	18,348	1					
Tank Insulation	29	$309	49,573	4,957	0					
Pipe Insulation	29	$309	51,665	3,444	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	11	$668	26,862	2,442	1	24	$1,800	74,725	6,793	3
ENERGY STAR Qualified Dishwasher	66	$2,049	85,421	7,766	6	19	$713	24,591	2,236	2
ENERGY STAR Qualified Refrigerator	53	$1,655	83,833	5,589	1	24	$900	37,962	2,531	0
ENERGY STAR Qualified Freezer	79	$2,455	88,128	5,875	1	8	$300	8,924	595	0
Appliance Recycling	84	$5,063	744,332	82,772	14	1	$143	766	153	0
Additional Low Income										
Energy Efficiency Kits	25	$1,066	254,246	28,250	3	100	$1,934	1,016,982	112,998	14
Weatherization Rebates						2	$1,473	103,563	3,452	0
Building Shell - Existing Home Only										
Weatherization Rebates	35	$22,143	1,599,066	53,302	4	14	$9,935	639,626	21,321	2
Residential Total	**3,975**	**$132,468**	**14,638,072**	**1,049,534**	**312**	**279**	**$90,661**	**8,041,468**	**483,927**	**68**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	382	$765	207,600	57,667	23					
High Efficiency Interior Lighting	773	$1,648	727,506	157,288	2	455	$3,407	1,098,510	148,591	3
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,630	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,480	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$955	27,722	1,848	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	67	$26,790	716,183	47,746	6					
Variable Speed Drive Motor Incentive	21	$1,269	7,830,761	522,051	45					
Agricultural										
Ag, Commercial and Industrial Total	**1,251**	**$34,537**	**9,579,481**	**790,957**	**77**	**455**	**$3,407**	**1,098,510**	**148,591**	**3**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	2,026	$203,060			1,013	1,717	$309,218			953
Air Conditioning Load Control	1,321	$118,665			925	1,390	$250,328			1,080
Space Heating Load Control (Interruptible)	1,309	$121,836			5,891					
Dual-Fuel Space Heating	671	$81,834			4,026					
Industrial Interruptible Price						14	$2,521			103
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$250								
Expert Energy Services - C&I	1	$250				20	$3,602			
Energy Audit Services - Residential *	5	$500								
IV. Educational & Research Programs										
Model Housing Education	2,620	$10,000								
Domestic Water Heater Enhancement	2,620	$6,000								
Member Information and Education	2,620	$28,350				2,525	$69,060			
Peak Alert	2,620	$50								
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,620	$14,500				2,525	$17,028			
TOTAL	**23,660**	**$752,301**	**24,217,553**	**1,840,491**	**12,243**	**8,925**	**$745,825**	**9,139,978**	**632,518**	**2,206**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. North West Rural Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of North West Rural Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

North West Rural Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for North West Rural Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including North West Rural Electric Cooperative.

North West Rural Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. North West Rural Electric Cooperative offers programs for residential member-consumers in the

form of prescriptive rebates on Energy Star central air conditioners, window/portable air conditioners, ground source heat pumps, air-to-air heat pumps, high efficient electric water heaters, home insulation, Energy Star clothes washers, refrigerators, freezers, and dishwashers, appliance recycling program, and energy efficiency kits (compact fluorescent light bulbs, low-flow showerheads, faucet aerators, etc.). North West Rural Electric Cooperative offers similar programs for the commercial, industrial and agriculture member-consumers but alters them to allow for equipment used in a commercial and agriculture setting. Due to the number of small and large industrial member-consumers in our portfolio, which includes 686 small commercial and industrial member-consumers of 1000 KVA or less and 74 commercial and industrial member-consumers of 1000 KVA or larger, prescriptive rebates are a challenge to design because each is unique. North West Rural Electric Cooperative offers a rebate program for energy efficient motors and lighting which allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. North West Rural Electric Cooperative also offers energy audits for all member-consumers.

In addition to the rebate opportunities, North West Rural Electric Cooperative offers two demand response programs that help us to be both environmentally and fiscally responsible. These programs are water heater load control and air conditioning load control. These optional incentive programs allow member-consumers to receive a discounted rate in exchange for our ability to curtail load during peak times.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, North West Rural Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. North West Rural Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. North West Rural Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), North West Rural Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which North West Rural Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for North West Rural Electric Cooperative. North West Rural Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
North West Rural Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	92	$16,178	378,990	70,885	27,071	63	$8,865	262,983	68,267	18,784
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	101	$3,141	79,710	23,501	8,857	39	$3,063	30,780	10,964	3,421
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	110	$269,739	29,213,646	4,063,353	1,460,682	366	$1,128,402	97,201,768	13,464,837	4,860,089
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	638	$477,606	75,166,225	14,931,138	5,011,082	451	$371,321	53,134,746	11,231,734	3,542,316
Residential Contractor Rebates	Incentive for heat pump installs						330	$158,063			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	29,667	$66,751	14,183,110	5,165,000	1,942,892	4,444	$10,043	2,124,574	1,455,188	291,038
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.						43,945	$113,770	21,009,094	8,625,164	2,877,958
ENERGY STAR LED lighting	Rebate for LED lighting.						490	$6,608	655,943	36,441	36,441
CFL Recycling	Recycling of compact florescent light bulbs.						4,450	$2,417			
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	868	$216,904	4,223,589	840,329	281,573	776	$364,679	3,965,332	824,520	264,355
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	695	$7,425	2,318,979	772,993	257,664					
Flow Restrictors - Shower	Incentive for low-flow shower head.	350	$3,710	2,214,450	664,335	221,445					
Tank Insulation	Incentive for water heater tank insulation.	350	$3,710	598,290	179,487	59,829					
Pipe Insulation	Incentive for water pipe insulation.	350	$3,710	623,543	124,709	41,570					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	96	$5,945	234,432	56,832	21,312	829	$58,195	2,581,133	724,890	234,648
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	584	$18,234	755,848	182,020	68,713	526	$20,380	680,781	187,197	61,889
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	471	$14,722	745,004	131,918	49,667	664	$24,915	1,050,282	211,426	70,018
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	700	$21,859	780,885	138,105	52,059	172	$7,097	191,874	37,855	12,792
Appliance Recycling	Incentives for appliance recycling.	1,002	$60,025	8,863,218	2,944,354	985,823	611	$37,062	5,108,608	1,848,679	573,750
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	700	$29,841	7,118,874	2,316,459	790,986	1,636	$34,806	16,637,825	5,334,636	1,848,647
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	285	$177,862	13,020,966	1,088,888	434,032	583	$223,625	28,194,967	2,766,343	939,998
Residential Total		**37,059**	**$1,397,362**	**160,519,758**	**33,694,304**	**11,715,256**	**60,375**	**$2,573,309**	**232,830,688**	**46,828,142**	**15,636,145**
Percentage of 5 year plan goal - Residential								**184%**	**145%**		**133%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
North West Rural Electric Cooperative	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	3,489	$6,975	1,896,118	1,400,305	526,699	2,371	$4,304	1,288,535	1,175,527	357,927
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	7,093	$15,390	6,666,529	3,836,929	1,441,143	20,887	$171,898	23,830,206	12,459,991	4,361,226
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)						826	$41,514	1,064,059	288,475	197,682
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.						15	$110	22,228	7,409	1,482
Geothermal Heat Pump	Rebate for geothermal heat pump.	10	$19,990	173,604	26,041	8,680	262	$129,852	4,548,425	738,685	227,421
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	30	$18,140	785,214	157,043	52,348	148	$28,015	3,873,723	673,538	258,248
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.							$6,419			
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	60	$11,715	332,667	66,533	22,178	73	$36,493	367,282	55,715	24,485
Ag/Commercial & Industrial Insulation											
Building Envelope	Rebates for insulation.						109	$82,763	27,056,419	3,008,472	1,082,256
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	820	$328,505	8,765,226	1,753,045	584,348	270	$115,445	7,565,724	1,528,865	504,382
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	260	$15,560	96,952,284	19,390,457	6,463,486	973	$191,904	36,875,025	5,001,021	2,458,334
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program							5	$162,384	35,971,969	11,990,656	2,398,131
Ag, Commercial and Industrial Total		**11,762**	**$416,275**	**115,571,642**	**26,630,353**	**9,098,882**	**25,939**	**$971,101**	**142,463,593**	**36,928,353**	**11,871,574**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**233%**	**123%**		**130%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	34,801	$3,576,920				33,182	$5,250,280			
Air Conditioning Load Control	Load control for air conditioning	19,703	$1,868,684				18,626	$2,891,564			
Space Heating Load Control (Interruptible)	Load control for space heating.	21,032	$2,141,210				11,290	$461,132			
Dual-Fuel Space Heating	Duel fuel space heating	4,380	$576,824				876	$108,822			
Crop Drying											
Load Control	Crop drying load control.						333	$52,474			
Irrigation											
Load Control	Irrigation load control.	255	$40,308				353	$55,292			
Industrial Interruptible Price	Industrial Interruptible Price	230	$28,864				256	$36,212			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	20	$4,000				6	$1,552			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	5	$1,500				6	$7,223			
Energy Audit Services - Residential *	Energy Audit Services - Residential	140	$14,000				96	$46,028			
IV. Educational & Research Programs											
Domestic Water Heater Enhancement	Domestic Water Heater Enhancement	28,750	$2,665								
Member Information and Education	Member Information and Education	35,275	$86,000				35,288	$328,090			
Peak Alert	Peak Alert	35,275	$1,350				28,231	$84,522			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	35,275	$168,500				35,288	$102,341			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	35,275	$220,500				35,288	$212,391			
TOTAL		**299,237**	**$10,544,963**	**276,091,401**	**60,324,657**	**20,814,138**	**285,433**	**$13,182,333**	**375,294,281**	**83,756,495**	**27,507,719**
Percentage of 5 year plan goal achieved								**125%**	**136%**		**132%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
North West Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	11	$2,109	45,284	3,235	3	31	1,712	119,145	8,510	10
ENERGY STAR Qualified Room Air Conditioner	13	$413	10,260	1,140	1	5	$265	3,946	438	0
Geothermal Heat Pump	17	$42,181	4,514,836	225,742	26	58	$160,727	15,403,559	770,178	99
Air Source Heat Pump	125	$93,538	14,726,925	981,795	128	105	$91,169	12,370,617	824,708	119
Residential Contractor Rebates						154	$33,688			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	3,918	$8,817	1,873,106	256,590	235	4,444	$10,043	2,124,574	291,038	296
Local CFL Rebate Program(s)						4,068	$10,318	1,944,817	266,413	271
ENERGY STAR LED lighting										
CFL Recycling						104	$147			
Residential Water Heating (low income included)										
High Efficiency Water Heater	171	$42,589	831,551	55,437	7	180	$63,008	900,182	60,012	9
Flow Restrictors - Faucet	139	$1,485	463,796	51,533	3					
Flow Restrictors - Shower	70	$742	442,890	44,289	4					
Tank Insulation	70	$742	119,658	11,966	1					
Pipe Insulation	70	$742	124,709	8,314	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	13	$778	31,746	2,886	1	172	$12,953	535,531	48,685	19
ENERGY STAR Qualified Dishwasher	76	$2,382	98,364	8,942	7	96	$5,167	124,249	11,295	10
ENERGY STAR Qualified Refrigerator	62	$1,924	98,069	6,538	1	134	$6,476	211,955	14,130	1
ENERGY STAR Qualified Freezer	92	$2,860	102,631	6,842	1	30	$1,836	33,467	2,231	0
Appliance Recycling	198	$11,773	1,750,448	194,698	33	141	$5,382	1,099,489	123,799	28
Additional Low Income										
Energy Efficiency Kits	130	$5,542	1,322,077	146,897	17	277	$9,132	2,817,040	313,004	40
Building Shell - Existing Home Only										
Weatherization Rebates	29	$18,112	1,324,940	44,165	3	95	$44,081	4,472,678	149,253	11
Residential Total	**5,204**	**$236,729**	**27,881,287**	**2,051,008**	**472**	**10,094**	**$456,102**	**42,161,249**	**2,883,696**	**914**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
North West Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	461	$921	250,533	69,593	28	337	$28	183,145	50,874	22
High Efficiency Interior Lighting	945	$2,130	886,044	191,501	3	1,455	$9,452	1,958,889	314,500	5
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning						15	$110	22,228	1,482	1
Geothermal Heat Pump	2	$3,998	34,721	1,736	0	10	$2,630	173,604	8,680	1
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	6	$3,628	157,043	10,470	1	5	$1,309	130,869	8,725	1
Commercial Contractor Rebate (GS & AS)							$656			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	12	$2,343	66,533	4,436	1	8	$1,602	36,031	2,402	0
Ag/Commercial & Industrial Insulation										
Building Envelope						9	$1,930	2,234,014	89,361	8
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	164	$65,701	1,753,045	116,870	15	61	$1,625	652,047	43,470	6
Variable Speed Drive Motor Incentive	52	$3,112	19,390,457	1,292,697	112					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program						5	$162,384	35,971,969	2,398,131	231
Ag, Commercial and Industrial Total	**1,642**	**$81,833**	**22,538,376**	**1,687,301**	**158**	**1,905**	**$181,726**	**41,362,795**	**2,917,623**	**276**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	6,613	$673,729			3,307	6,442	$673,729			3,575
Air Conditioning Load Control	3,604	$351,975			2,523	3,451	$351,975			2,681
Space Heating Load Control (Interruptible)	3,907	$403,307			17,582	3,765	$403,307			18,806
Dual-Fuel Space Heating	876	$108,647			5,256	876	$108,822			5,834
Crop Drying										
Load Control						75	$9,302			167
Irrigation										
Load Control	51	$7,592			337	68	$7,592			498
Industrial Interruptible Price	42	$5,437			277	44	$5,437			322
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	4	$800				4	$1,262			
Expert Energy Services - C&I	1	$300								
Energy Audit Services - Residential *	20	$2,000				4	$819			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement	7,025	$500								
Member Information and Education	7,025	$17,000				7,052	$86,058			
Peak Alert	7,025	$250				7,052	$478			
Living with Energy in Iowa	7,025	$33,600				7,052	$21,333			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,025	$38,900				7,052	$36,330			
TOTAL	**57,089**	**$1,962,600**	**50,419,663**	**3,738,309**	**29,911**	**54,936**	**$2,344,272**	**83,524,044**	**5,801,319**	**33,074**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
North West Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	15	$2,666	62,005	4,429	5	3	$675	12,727	909	
ENERGY STAR Qualified Room Air Conditioner	17	$519	13,417	1,491	2	14	$450	11,049	1,228	1
Geothermal Heat Pump	20	$48,047	5,311,572	265,579	31	73	$301,500	19,387,238	969,362	125
Air Source Heat Pump	126	$94,707	14,844,740	989,649	129	103	$85,950	12,134,986	808,999	117
Residential Contractor Rebates						176	$35,281			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	4,915	$11,059	2,349,748	321,883	295					
Local CFL Rebate Program(s)						15,763	$44,112	7,535,928	1,032,319	1,050
ENERGY STAR LED lighting										
CFL Recycling						897	$644			
Residential Water Heating (low income included)										
High Efficiency Water Heater	172	$43,039	837,095	55,806	7	176	$94,217	896,736	59,782	9
Flow Restrictors - Faucet	139	$1,485	463,796	51,533	3					
Flow Restrictors - Shower	70	$742	442,890	44,289	4					
Tank Insulation	70	$742	119,658	11,966	1					
Pipe Insulation	70	$742	124,709	8,314	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	16	$981	39,072	3,552	1	183	$13,500	569,780	51,798	20
ENERGY STAR Qualified Dishwasher	96	$3,008	124,249	11,295	9	120	$4,500	155,311	14,119	12
ENERGY STAR Qualified Refrigerator	78	$2,428	123,377	8,225	1	132	$4,875	208,791	13,919	1
ENERGY STAR Qualified Freezer	115	$3,607	128,288	8,553	1	37	$1,463	41,275	2,752	
Appliance Recycling	199	$11,949	1,761,257	195,899	33	167	$6,339	1,424,288	159,820	34
Additional Low Income										
Energy Efficiency Kits	135	$5,755	1,372,926	152,547	18	309	$6,987	3,142,474	349,164	45
Building Shell - Existing Home Only										
Weatherization Rebates	43	$26,732	1,964,567	65,486	5	133	$52,705	6,447,913	214,931	14
Residential Total	**6,296**	**$258,208**	**30,083,365**	**2,200,496**	**544**	**18,286**	**$653,198**	**51,968,496**	**3,679,102**	**1,428**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
North West Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	578	$1,156	314,118	87,255	35					
High Efficiency Interior Lighting	1,179	$2,600	1,107,031	239,293	3	5,082	$39,282	7,009,995	1,098,468	17
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning										
Geothermal Heat Pump	2	$3,998	34,721	1,736	0	137	$67,800	2,378,375	118,919	18
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	6	$3,628	157,043	10,470	1	21	$2,775	549,650	36,643	2
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	12	$2,343	66,533	4,436	1					
Ag/Commercial & Industrial Insulation										
Building Envelope						24	$12,043	5,957,370	238,295	21
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	164	$65,701	1,753,045	116,870	15	8	$9,446	84,445	5,630	1
Variable Speed Drive Motor Incentive	52	$3,112	19,390,457	1,292,697	112	38	$46,115	9,545,645	636,376	61
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**1,993**	**$82,538**	**22,822,947**	**1,752,755**	**166**	**5,310**	**$177,461**	**25,525,480**	**2,134,331**	**120**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	6,785	$693,941			3,393	6,669	$1,002,714			3,701
Air Conditioning Load Control	3,765	$362,534			2,636	3,770	$551,456			2,929
Space Heating Load Control (Interruptible)	4,053	$415,406			18,239		$15,901			
Dual-Fuel Space Heating	876	$111,907			5,256					
Crop Drying										
Load Control						68	$9,947			151
Irrigation										
Load Control	51	$7,820			337	70	$10,239			513
Industrial Interruptible Price	44	$5,600			290	44	$1,924			322
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	4	$800								
Expert Energy Services - C&I	1	$300								
Energy Audit Services - Residential *	24	$2,400				10	$5,367			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement	7,040	$515								
Member Information and Education	7,040	$17,100				7,060	$78,625			
Peak Alert	7,040	$260				7,060	$607			
Living with Energy in Iowa	7,040	$33,650				7,060	$21,345			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,040	$41,600				7,060	$39,600			
TOTAL	**59,092**	**$2,034,579**	**52,906,312**	**3,953,252**	**30,860**	**62,467**	**$2,568,384**	**77,493,976**	**5,813,433**	**9,164**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
North West Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	19	$3,232	77,840	5,560	6	16	2,896	66,138	4,724	5
ENERGY STAR Qualified Room Air Conditioner	20	$627	15,784	1,754	2	8	$1,898	6,314	702	1
Geothermal Heat Pump	22	$53,976	5,842,729	292,136	34	63	$149,275	16,731,452	836,573	108
Air Source Heat Pump	128	$95,755	15,080,371	1,005,358	131	89	$71,564	10,485,571	699,038	101
Residential Contractor Rebates							$21,500			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	5,927	$13,335	2,833,562	388,159	356					
Local CFL Rebate Program(s)						7,082	$14,042	3,385,741	463,800	472
ENERGY STAR LED lighting										
CFL Recycling						913	$542			
Residential Water Heating (low income included)										
High Efficiency Water Heater	174	$43,452	846,103	56,407	8	133	$66,086	666,650	44,443	6
Flow Restrictors - Faucet	139	$1,485	463,796	51,533	3					
Flow Restrictors - Shower	70	$742	442,890	44,289	4					
Tank Insulation	70	$742	119,658	11,966	1					
Pipe Insulation	70	$742	124,709	8,314	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	19	$1,187	46,398	4,218	2	162	$8,342	504,395	45,854	18
ENERGY STAR Qualified Dishwasher	117	$3,642	151,428	13,766	11	104	$2,987	134,603	12,237	10
ENERGY STAR Qualified Refrigerator	94	$2,940	148,685	9,912	1	131	$3,551	207,209	13,814	1
ENERGY STAR Qualified Freezer	140	$4,365	156,177	10,412	1	33	$1,098	36,813	2,454	
Appliance Recycling	200	$12,023	1,768,320	196,684	33	105	$2,680	868,182	97,486	21
Additional Low Income										
Energy Efficiency Kits	140	$5,968	1,423,775	158,197	18	350	$5,546	3,559,437	395,493	51
Building Shell - Existing Home Only										
Weatherization Rebates	57	$35,456	2,604,193	86,806	7	131	$37,848	6,255,472	208,517	14
Residential Total	**7,406**	**$279,669**	**32,146,418**	**2,345,472**	**617**	**9,320**	**$389,855**	**42,907,977**	**2,825,135**	**808**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
North West Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	697	$1,393	378,789	105,219	42	2,034	$4,276	1,105,390	307,053	135
High Efficiency Interior Lighting	1,417	$3,074	1,331,795	287,902	4	6,421	$38,438	8,933,960	1,396,243	21
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning										
Geothermal Heat Pump	2	$3,998	34,721	1,736	0	66	$31,130	1,145,786	57,289	9
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	6	$3,628	157,043	10,470	1	50	$12,267	1,308,690	87,246	6
Commercial Contractor Rebate (GS & AS)							$2,700			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	12	$2,343	66,533	4,436	1	18	$10,895	93,556	6,237	1
Ag/Commercial & Industrial Insulation										
Building Envelope						35	$22,900	8,687,861	347,513	31
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	164	$65,701	1,753,045	116,870	15	56	$92,719	5,807,701	387,180	79
Variable Speed Drive Motor Incentive	52	$3,112	19,390,457	1,292,697	112	4	$3,229	221,240	14,749	15
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**2,350**	**$83,249**	**23,112,383**	**1,819,329**	**174**	**8,684**	**$218,554**	**27,304,184**	**2,603,510**	**297**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	6,959	$714,759			3,480	6,636	$1,156,429			
Air Conditioning Load Control	3,934	$373,410			2,754	3,680	$641,299			
Space Heating Load Control (Interruptible)	4,203	$427,868			18,914					
Dual-Fuel Space Heating	876	$115,264			5,256					
Crop Drying										
Load Control						75	$13,070			
Irrigation										
Load Control	51	$8,055			337	68	$11,850			
Industrial Interruptible Price	46	$5,768			304	27	$4,705			344
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	4	$800								
Expert Energy Services - C&I	1	$300				2				
Energy Audit Services - Residential *	28	$2,800				23				
IV. Educational & Research Programs										
Domestic Water Heater Enhancement	7,055	$530								
Member Information and Education	7,055	$17,200				7,057	$59,159			
Peak Alert	7,055	$270								
Living with Energy in Iowa	7,055	$33,700				7,057	$20,510			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,055	$44,500				7,057	$42,703			
TOTAL	**61,133**	**$2,108,142**	**55,258,801**	**4,164,801**	**31,833**	**49,686**	**$2,558,134**	**70,212,161**	**5,428,645**	**1,449**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
North West Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	22	$3,792	90,567	6,469	7	9	$2,475	45,734	3,267	4
ENERGY STAR Qualified Room Air Conditioner	24	$736	18,941	2,105	2	8	$300	6,314	702	1
Geothermal Heat Pump	24	$59,688	6,373,886	318,694	37	71	$210,000	18,856,081	942,804	121
Air Source Heat Pump	129	$96,262	15,198,187	1,013,212	132	72	$56,250	8,482,709	565,514	82
Residential Contractor Rebates							$29,750			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	6,929	$15,591	3,312,596	453,780	416					
Local CFL Rebate Program(s)						10,032	$27,688	4,796,068	656,996	668
ENERGY STAR LED lighting										
CFL Recycling						1,487	$610			
Residential Water Heating (low income included)										
High Efficiency Water Heater	175	$43,698	851,648	56,777	8	146	$69,235	778,271	51,885	8
Flow Restrictors - Faucet	139	$1,485	463,796	51,533	3					
Flow Restrictors - Shower	70	$742	442,890	44,289	4					
Tank Insulation	70	$742	119,658	11,966	1					
Pipe Insulation	70	$742	124,709	8,314	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	22	$1,393	53,724	4,884	2	171	$12,825	532,417	48,402	19
ENERGY STAR Qualified Dishwasher	137	$4,273	177,314	16,119	12	113	$4,238	146,251	13,296	11
ENERGY STAR Qualified Refrigerator	110	$3,450	173,993	11,600	1	147	$5,513	232,517	15,501	2
ENERGY STAR Qualified Freezer	164	$5,122	182,950	12,197	2	40	$1,500	44,622	2,975	0
Appliance Recycling	202	$12,100	1,786,192	198,670	34	107	$8,828	938,501	105,299	22
Additional Low Income										
Energy Efficiency Kits	145	$6,181	1,474,624	163,847	19	350	$6,767	3,559,437	395,493	51
Building Shell - Existing Home Only										
Weatherization Rebates	71	$44,301	3,243,820	108,127	9	103	$39,408	5,025,203	167,507	11
Residential Total	**8,503**	**$300,298**	**34,089,492**	**2,482,583**	**687**	**12,856**	**$475,387**	**43,444,125**	**2,969,639**	**1,000**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
North West Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	815	$1,629	442,917	123,032	49					
High Efficiency Interior Lighting	1,653	$3,546	1,554,670	336,102	5	3,813	$40,370	2,809,085	752,876	12
Exterior Lighting										
High Efficiency Exterior Lighting						399	$24,708	444,883	90,792	4
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning										
Geothermal Heat Pump	2	$3,998	34,721	1,736	0	6	$2,700	104,162	5,208	1
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	6	$3,628	157,043	10,470	1	55	$9,000	1,439,559	95,971	6
Commercial Contractor Rebate (GS & AS)							$875			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	12	$2,343	66,533	4,436	1	27	$13,920	137,213	9,148	1
Ag/Commercial & Industrial Insulation										
Building Envelope						16	$15,240	3,971,580	158,863	14
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	164	$65,701	1,753,045	116,870	15	144	$8,655	890,313	59,354	12
Variable Speed Drive Motor Incentive	52	$3,112	19,390,457	1,292,697	112	924	$55,440	9,060,905	604,060	604
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**2,704**	**$83,957**	**23,399,386**	**1,885,343**	**182**	**5,384**	**$170,908**	**18,857,700**	**1,776,273**	**654**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	7,134	$736,202			3,567	6,751	$1,242,239			3,747
Air Conditioning Load Control	4,109	$384,613			2,876	3,828	$685,766			2,974
Space Heating Load Control (Interruptible)	4,356	$440,704			19,602	3,721	$18,561			
Dual-Fuel Space Heating	876	$118,722			5,256					
Crop Drying										
Load Control						68	$12,182			151
Irrigation										
Load Control	51	$8,296			337	71	$12,719			520
Industrial Interruptible Price	48	$5,941			317	24	$4,299			176
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	4	$800				1	$140			
Expert Energy Services - C&I	1	$300				3	$4,469			
Energy Audit Services - Residential *	32	$3,200				16	$16,349			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement	7,070	$545								
Member Information and Education	7,070	$17,300				7,054	$44,342			
Peak Alert	7,070	$280				7,054	$520			
Living with Energy in Iowa	7,070	$33,750				7,054	$19,065			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,070	$46,600				7,054	$46,137			
TOTAL	**63,168**	**$2,181,508**	**57,488,878**	**4,367,925**	**32,824**	**60,939**	**$2,753,083**	**62,301,825**	**4,745,911**	**9,222**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progra

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
North West Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	25	$4,379	103,294	7,378	8	4	$1,107	19,239	1,374	2
ENERGY STAR Qualified Room Air Conditioner	27	$846	21,309	2,368	2	4	$150	3,157	351	0
Geothermal Heat Pump	27	$65,847	7,170,622	358,531	42	101	$306,900	26,823,439	1,341,172	173
Air Source Heat Pump	130	$97,344	15,316,002	1,021,067	133	82	$66,388	9,660,863	644,058	93
Residential Contractor Rebates							$37,844			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	7,978	$17,949	3,814,098	522,479	479					
Local CFL Rebate Program(s)						7,000	$17,610	3,346,539	458,430	466
ENERGY STAR LED lighting						490	$6,608	655,943	36,441	22
CFL Recycling						1,049	$474			
Residential Water Heating (low income included)										
High Efficiency Water Heater	176	$44,126	857,192	57,146	8	141	$72,133	723,492	48,233	7
Flow Restrictors - Faucet	139	$1,485	463,796	51,533	3					
Flow Restrictors - Shower	70	$742	442,890	44,289	4					
Tank Insulation	70	$742	119,658	11,966	1					
Pipe Insulation	70	$742	124,709	8,314	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	26	$1,606	63,492	5,772	2	141	$10,575	439,011	39,910	16
ENERGY STAR Qualified Dishwasher	158	$4,929	204,493	18,590	14	93	$3,488	120,366	10,942	9
ENERGY STAR Qualified Refrigerator	127	$3,980	200,882	13,392	1	120	$4,500	189,810	12,654	1
ENERGY STAR Qualified Freezer	189	$5,905	210,839	14,056	2	32	$1,200	35,698	2,380	0
Appliance Recycling	203	$12,180	1,797,001	199,871	34	91	$13,833	778,148	87,346	19
Additional Low Income										
Energy Efficiency Kits	150	$6,395	1,525,473	169,497	20	350	$6,374	3,559,437	395,493	51
Building Shell - Existing Home Only										
Weatherization Rebates	85	$53,261	3,883,446	129,448	10	121	$49,583	5,993,700	199,790	12
Residential Total	**9,650**	**$322,458**	**36,319,196**	**2,635,697**	**762**	**9,819**	**$598,767**	**52,348,841**	**3,278,574**	**871**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
North West Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	938	$1,876	509,762	141,600	56					
High Efficiency Interior Lighting	1,899	$4,040	1,786,990	386,345	5	4,116	$44,356	3,118,276	799,139	13
Exterior Lighting										
High Efficiency Exterior Lighting						427	$16,806	619,176	106,890	4
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning										
Geothermal Heat Pump	2	$3,998	34,721	1,736	0	43	$25,592	746,497	37,325	6
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	6	$3,628	157,043	10,470	1	17	$2,664	444,955	29,664	2
Commercial Contractor Rebate (GS & AS)							$2,188			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	12	$2,343	66,533	4,436	1	20	$10,076	100,483	6,699	1
Ag/Commercial & Industrial Insulation										
Building Envelope						25	$30,650	6,205,594	248,224	22
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	164	$65,701	1,753,045	116,870	15	1	$3,000	131,218	8,748	2
Variable Speed Drive Motor Incentive	52	$3,112	19,390,457	1,292,697	112	7	$87,120	18,047,235	1,203,149	1,202
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**3,073**	**$84,698**	**23,698,551**	**1,954,154**	**190**	**4,656**	**$222,452**	**29,413,434**	**2,439,837**	**1,251**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	7,310	$758,288			3,655	6,684	$1,175,169			3,710
Air Conditioning Load Control	4,291	$396,151			3,004	3,897	$661,068			3,028
Space Heating Load Control (Interruptible)	4,513	$453,925			20,309	3,804	$23,363			
Dual-Fuel Space Heating	876	$122,284			5,256					
Crop Drying										
Load Control						47	$7,973			104
Irrigation										
Load Control	51	$8,545			337	76	$12,892			557
Industrial Interruptible Price	50	$6,119			330	117	$19,847			857
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	4	$800				1	$150			
Expert Energy Services - C&I	1	$300				1	$2,754			
Energy Audit Services - Residential *	36	$3,600				43	$23,493			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement	560	$575								
Member Information and Education	7,085	$17,400				7,065	$59,906			
Peak Alert	7,085	$290				7,065	$82,917			
Living with Energy in Iowa	7,085	$33,800				7,065	$20,088			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,085	$48,900				7,065	$47,621			
TOTAL	**58,755**	**$2,258,133**	**60,017,747**	**4,589,851**	**33,842**	**57,405**	**$2,958,460**	**81,762,274**	**5,718,410**	**10,378**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

Osceola Electric Cooperative, Inc.

A Touchstone Energy® Cooperative

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Osceola Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Osceola Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Osceola Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Osceola Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Osceola Electric Cooperative.

Osceola Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Osceola Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Osceola Electric Cooperative offers similar programs for the small

commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Osceola Electric Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, two member-consumers, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Osceola Electric Cooperative also offers energy audits for all member-consumers.

In addition to the rebate opportunities, Osceola Electric Cooperative offers two demand response programs that help us to be both environmentally and fiscally responsible. These programs are water heater load control and air conditioning load control. These optional incentive programs allow member-consumers to receive a bill credit per month in exchange for our ability to curtail load during peak times.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Osceola Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Osceola Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Osceola Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Osceola Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Osceola Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Osceola Electric Cooperative. Osceola Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Osceola Electric Cooperative, Inc.	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	7	$1,188	22,269	6,694	1,591					
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	10	$308	6,061	2,381	673	4	$145	2,597	937	288
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	8	$19,600	2,124,628	278,858	106,232	14	$23,134	3,718,100	451,485	185,905
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	59	$42,522	6,951,108	1,531,601	463,407	30	$19,555	3,534,462	848,269	235,630
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	5,700	$14,250	2,725,039	1,481,580	373,293					
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	3,500	$8,750	1,673,270	687,645	229,215	3,150	$9,161	1,505,942	720,258	206,293
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	572	$1,706	765,296	69,996	46,664	1,140	$3,302	1,527,825	259,301	93,160
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	40	$10,000	89,133	48,618	16,206					
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	144	$47,300	635,836	147,955	42,389	65	$19,631	283,383	61,757	18,892
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	118	$2,640	393,726	174,989	43,747					
Flow Restrictors - Shower	Incentive for low-flow shower head.	98	$4,386	620,046	235,364	62,005					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	85	$5,313	207,570	54,390	18,870	69	$8,753	203,419	64,347	18,493
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	50	$1,563	64,713	17,649	5,883	45	$2,569	58,242	14,588	5,294
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	24	$750	37,962	7,065	2,531	53	$3,067	83,832	16,029	5,589
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	9	$281	10,040	1,636	669	13	$694	14,502	2,827	967
Appliance Recycling	Incentives for appliance recycling.	98	$6,622	879,989	385,028	97,822	4	$258	33,193	16,072	3,756
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	100	$2,500	1,016,982	338,994	112,998	40	$1,423	406,793	225,996	45,199
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.						12	$1,023	272,727	10,909	10,909
Residential Total		**10,622**	**$169,677**	**18,223,668**	**5,470,444**	**1,624,195**	**4,639**	**$92,715**	**11,645,017**	**2,692,775**	**830,377**
Percentage of 5 year plan goal - Residential								**55%**	**64%**		**51%**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	1,072	$2,680	805,255	651,488	217,636	120	$322	143,217	89,512	22,378
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)						582	$2,520	713,742	131,761	107,932
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	10	$375	20,396	12,488	4,163	257	$30,301	484,655	222,504	71,947
Ag/Commercial & Industrial Heating and Cooling											
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.						1	$678	117,782	15,704	7,852
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	5	$375	53,447	10,689	3,563	228	$3,523	606,418	78,397	43,278
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	3	$1,500	979,270	261,139	65,285	35	$170	435,023	58,003	29,002
Agricultural											
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.						460	$1,009	308,402	385,503	77,101
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		25	$25,500	1,226,273	485,604	122,627					
Ag, Commercial and Industrial Total		**1,115**	**$30,430**	**3,084,640**	**1,421,407**	**413,274**	**1,683**	**$38,523**	**2,809,239**	**981,385**	**359,489**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**127%**	**91%**		**87%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	2,875	$172,500				1,839	$100,628			
Air Conditioning Load Control	Load control for air conditioning						455	$7,821			
Dual-Fuel Space Heating	Duel fuel space heating						213	$2,331			
Crop Drying											
Load Control	Crop drying load control.	40					14	$1,259			
Irrigation											
Load Control	Irrigation load control.	60					42	$4,748			
III. Energy Audit & Technical Support Programs											
Energy Audit Services - Residential *	Energy Audit Services - Residential	100	$31,250				2	$468			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	4,500	$12,375				4,304	$30,336			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	4,500	$21,600				4,304	$11,693			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,500	$20,250				4,304	$25,801			
TOTAL		**28,312**	**$458,082**	**21,308,307**	**6,891,851**	**2,037,469**	**21,799**	**$316,323**	**14,454,256**	**3,674,161**	**1,189,867**
Percentage of 5 year plan goal achieved								**69%**	**68%**		**58%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Osceola Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	3	$563	10,521	751	1					
ENERGY STAR Qualified Room Air Conditioner	2	$63	1,299	144	0	1	$54	649	72	0
Geothermal Heat Pump	1	$2,450	265,579	13,279	2	2	$1,999	531,157	26,558	3
Air Source Heat Pump	14	$10,500	1,649,416	109,961	14	9	$5,716	1,060,339	70,689	10
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,823	$4,558	871,534	119,388	109					
Local CFL Rebate Program(s)	700	$1,750	334,654	45,843	42	750	$1,978	358,558	49,118	50
T8 or better Lighting Fixtures						66	$508	81,044	4,942	2
Exterior Lighting										
High Efficiency Exterior Lighting	8	$2,000	17,827	3,241	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	36	$12,375	162,138	10,809	1	19	$3,614	86,613	5,774	1
Flow Restrictors - Faucet	40	$895	133,466	14,830	1					
Flow Restrictors - Shower	20	$895	126,540	12,654	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	15	$938	36,630	3,330	1	18	$2,324	56,044	5,095	2
ENERGY STAR Qualified Dishwasher	10	$313	12,943	1,177	1	7	$379	9,060	824	1
ENERGY STAR Qualified Refrigerator	4	$125	6,327	422	0	8	$508	12,654	844	0
ENERGY STAR Qualified Freezer	1	$31	1,116	74	0	1	$54	1,116	74	0
Appliance Recycling	32	$2,150	285,954	31,773	5	2	$133	21,618	2,402	0
Additional Low Income										
Energy Efficiency Kits	20	$500	203,396	22,600	3	40	$1,423	406,793	45,199	6
Building Shell - Existing Home Only										
Weatherization Rebates										
Residential Total	**2,729**	**$40,104**	**4,119,338**	**390,276**	**182**	**923**	**$18,690**	**2,625,645**	**211,590**	**75**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	215	$538	161,502	43,649	13					
High Efficiency Interior Lighting										
Exterior Lighting										
High Efficiency Exterior Lighting	2	$75	4,079	833	0	146	$13,182	162,789	33,222	1
Ag/Commercial & Industrial Heating and Cooling										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	1	$75	10,689	713	0					
Variable Speed Drive Motor Incentive	1	$500	326,423	21,762	2					
Agricultural										
Hog Farrowing - Heat Lamps (<= 175W)						460	$1,009	308,402	77,101	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	8	$8,000	392,407	39,241	8					
Ag, Commercial and Industrial Total	**227**	**$9,188**	**895,101**	**106,196**	**23**	**606**	**$14,191**	**471,192**	**110,323**	**1**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	575	$34,500			288	521	$25,000			289
Air Conditioning Load Control						186	$974			145
Dual-Fuel Space Heating						213	$2,331			1,419
Crop Drying										
Load Control	8				16	8	$355			18
Irrigation										
Load Control	12				79	11				81
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	20	$6,250				2	$468			
IV. Educational & Research Programs										
Member Information and Education	900	$2,425				894	$6,472			
Living with Energy in Iowa	900	$4,320				894	$2,521			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	900	$3,950				894	$4,400			
TOTAL	**6,271**	**$100,736**	**5,014,438**	**496,472**	**588**	**5,152**	**$75,402**	**3,096,837**	**321,913**	**2,027**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Osceola Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	2	$313	5,874	420	1					
ENERGY STAR Qualified Room Air Conditioner	3	$94	1,948	216	0	1	$34	649	72	
Geothermal Heat Pump	1	$2,450	265,579	13,279	2	2	$2,686	531,157	26,558	3
Air Source Heat Pump	14	$10,500	1,649,416	109,961	14	9	$5,910	1,060,339	70,689	10
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,877	$4,693	897,351	122,925	113					
Local CFL Rebate Program(s)	700	$1,750	334,654	45,843	42	768	$2,246	367,163	50,296	51
T8 or better Lighting Fixtures						198	$532	266,725	16,264	7
Exterior Lighting										
High Efficiency Exterior Lighting	8	$2,000	17,827	3,241	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	38	$13,063	171,145	11,410	2	15	$5,104	54,029	3,602	
Flow Restrictors - Faucet	38	$850	126,793	14,088	1					
Flow Restrictors - Shower	38	$1,701	240,426	24,043	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	16	$1,000	39,072	3,552	1	17	$2,283	41,514	3,774	2
ENERGY STAR Qualified Dishwasher	10	$313	12,943	1,177	1	5	$168	6,471	588	
ENERGY STAR Qualified Refrigerator	4	$125	6,327	422	0	7	$235	11,072	738	
ENERGY STAR Qualified Freezer	1	$31	1,116	74	0	5	$201	5,578	372	
Appliance Recycling	32	$2,150	285,954	31,773	5					
Additional Low Income										
Energy Efficiency Kits	20	$500	203,396	22,600	3					
Building Shell - Existing Home Only										
Weatherization Rebates										
Residential Total	**2,802**	**$41,531**	**4,259,819**	**405,022**	**186**	**1,027**	**$19,399**	**2,344,697**	**172,953**	**73**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	212	$530	159,248	43,040	13	120	$322	143,217	22,378	1
High Efficiency Interior Lighting										
Exterior Lighting										
High Efficiency Exterior Lighting	2	$75	4,079	833	0					
Ag/Commercial & Industrial Heating and Cooling										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	1	$75	10,689	713	0					
Variable Speed Drive Motor Incentive	1	$500	326,423	21,762	2					
Agricultural										
Hog Farrowing - Heat Lamps (<= 175W)										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	8	$8,500	392,407	39,241	8					
Ag, Commercial and Industrial Total	**224**	**$9,680**	**892,847**	**105,587**	**23**	**120**	**$322**	**143,217**	**22,378**	**1**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	575	$34,500			288	26	$3,589			14
Air Conditioning Load Control						5	$690			4
Dual-Fuel Space Heating										
Crop Drying										
Load Control	8				16					
Irrigation										
Load Control	12				79	2	$276			15
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	20	$6,250								
IV. Educational & Research Programs										
Member Information and Education	900	$2,450				857	$6,127			
Living with Energy in Iowa	900	$4,320				857	$2,454			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	900	$4,000				857	$4,716			
TOTAL	**6,341**	**$102,731**	**5,152,666**	**510,610**	**592**	**3,751**	**$37,573**	**2,487,914**	**195,331**	**107**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Osceola Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	2	$313	5,874	420	1					
ENERGY STAR Qualified Room Air Conditioner	3	$94	1,948	216	0					
Geothermal Heat Pump	2	$4,900	531,157	26,558	3	2	$3,066	531,157	26,558	3
Air Source Heat Pump	15	$11,250	1,767,231	117,815	15	6	$3,782	706,892	47,126	7
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,000	$5,000	956,154	130,980	120					
Local CFL Rebate Program(s)	700	$1,750	334,654	45,843	42	912	$2,961	436,006	59,727	61
T8 or better Lighting Fixtures						594	$1,518	800,175	48,791	20
Exterior Lighting										
High Efficiency Exterior Lighting	8	$2,000	17,827	3,241	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	40	$13,750	180,153	12,010	2	10	$3,449	42,957	2,864	
Flow Restrictors - Faucet	40	$895	133,466	14,830	1					
Flow Restrictors - Shower	40	$1,790	253,080	25,308	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	17	$1,063	41,514	3,774	1	18	$2,299	56,044	5,095	2
ENERGY STAR Qualified Dishwasher	10	$313	12,943	1,177	1	11	$703	14,237	1,294	1
ENERGY STAR Qualified Refrigerator	5	$156	7,909	527	0	15	$958	23,726	1,582	
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0	2	$128	2,231	149	
Appliance Recycling	32	$2,150	285,954	31,773	5	2	$125	11,575	1,354	
Additional Low Income										
Energy Efficiency Kits	20	$500	203,396	22,600	3					
Building Shell - Existing Home Only										
Weatherization Rebates										
Residential Total	**2,936**	**$45,985**	**4,735,491**	**437,220**	**197**	**1,572**	**$18,989**	**2,625,000**	**194,540**	**94**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	213	$533	159,999	43,243	13					
High Efficiency Interior Lighting										
Exterior Lighting										
High Efficiency Exterior Lighting	2	$75	4,079	833	0					
Ag/Commercial & Industrial Heating and Cooling										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	1	$75	10,689	713	0	1	$319	10,689	3,563	
Variable Speed Drive Motor Incentive	1	$500	326,423	21,762	2					
Agricultural										
Hog Farrowing - Heat Lamps (<= 175W)										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	9	$9,000	441,458	44,146	9					
Ag, Commercial and Industrial Total	**226**	**$10,183**	**942,649**	**110,696**	**24**	**1**	**$319**	**10,689**	**3,563**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	575	$34,500			288	339	$46,797			188
Air Conditioning Load Control						22	$3,037			17
Dual-Fuel Space Heating										
Crop Drying										
Load Control	8				16	2	$276			4
Irrigation										
Load Control	12				79	5	$690			37
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	20	$6,250								
IV. Educational & Research Programs										
Member Information and Education	900	$2,475				857	$7,448			
Living with Energy in Iowa	900	$4,320				857	$2,307			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	900	$4,050				857	$5,338			
TOTAL	**6,477**	**$107,763**	**5,678,140**	**547,916**	**604**	**4,512**	**$85,201**	**2,635,689**	**198,103**	**340**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Osceola Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning										
ENERGY STAR Qualified Room Air Conditioner	1	$29	433	48	0	2	$57	1,299	144	0
Geothermal Heat Pump	2	$4,900	531,157	26,558	3	2	$2,713	531,157	26,558	3
Air Source Heat Pump	8	$5,136	942,523	62,835	9	3	$2,035	353,446	23,563	3
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)										
Local CFL Rebate Program(s)	700	$1,750	334,654	45,843	42	720	$1,976	344,215	47,153	48
T8 or better Lighting Fixtures	286	$853	382,648	23,332	10					
Exterior Lighting										
High Efficiency Exterior Lighting	8	$2,000	17,827	3,241	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	15	$4,056	61,200	4,080	0	11	$3,505	48,501	3,233	0
Flow Restrictors - Faucet										
Flow Restrictors - Shower										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	18	$1,125	43,956	3,996	1	14	$1,583	43,590	3,963	2
ENERGY STAR Qualified Dishwasher	10	$313	12,943	1,177	1	14	$791	18,120	1,647	1
ENERGY STAR Qualified Refrigerator	5	$156	7,909	527	0	16	$904	25,308	1,687	0
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0	2	$113	2,231	149	0
Appliance Recycling	1	$86	11,064	1,252	0					
Additional Low Income										
Energy Efficiency Kits	20	$500	203,396	22,600	3					
Building Shell - Existing Home Only										
Weatherization Rebates										
Residential Total	**1,076**	**$20,966**	**2,551,940**	**195,637**	**70**	**784**	**$13,677**	**1,367,867**	**108,097**	**59**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	215	$538	161,502	43,649	13					
High Efficiency Interior Lighting						131	$1,330	175,486	23,829	1
Exterior Lighting										
High Efficiency Exterior Lighting	2	$75	4,079	833	0	76	$15,964	90,242	17,668	1
Ag/Commercial & Industrial Heating and Cooling										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)						1	$678	117,782	7,852	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	1	$75	10,689	713	0	160	$2,148	419,897	27,993	6
Variable Speed Drive Motor Incentive						35	$170	435,023	29,002	29
Agricultural										
Hog Farrowing - Heat Lamps (<= 175W)										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**218**	**$688**	**176,270**	**45,194**	**13**	**403**	**$20,290**	**1,238,430**	**106,344**	**37**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	575	$34,500			288	474	$1,560			263
Air Conditioning Load Control						121	$1,560			94
Dual-Fuel Space Heating										
Crop Drying										
Load Control	8				16	2	$312			4
Irrigation										
Load Control	12				79	5	$780			37
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	20	$6,250								
IV. Educational & Research Programs										
Member Information and Education	900	$2,500				854	$5,184			
Living with Energy in Iowa	900	$4,320				854	$2,161			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	900	$4,100				854	$5,628			
TOTAL	**4,609**	**$73,324**	**2,728,211**	**240,832**	**466**	**4,351**	**$51,152**	**2,606,298**	**214,441**	**493**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Osceola Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning										
ENERGY STAR Qualified Room Air Conditioner	1	$29	433	48	0					
Geothermal Heat Pump	2	$4,900	531,157	26,558	3	6	$12,670	1,593,472	79,674	10
Air Source Heat Pump	8	$5,136	942,523	62,835	9	3	$2,112	353,446	23,563	3
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)										
Local CFL Rebate Program(s)	700	$1,750	334,654	45,843	42					
T8 or better Lighting Fixtures	286	$853	382,648	23,332	10	282	$744	379,881	23,163	9
Exterior Lighting										
High Efficiency Exterior Lighting	8	$2,000	17,827	3,241	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	15	$4,056	61,200	4,080	0	10	$3,959	51,282	3,419	1
Flow Restrictors - Faucet										
Flow Restrictors - Shower										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	19	$1,188	46,398	4,218	2	2	$264	6,227	566	0
ENERGY STAR Qualified Dishwasher	10	$313	12,943	1,177	1	8	$528	10,354	941	1
ENERGY STAR Qualified Refrigerator	6	$188	9,491	633	0	7	$462	11,072	738	0
ENERGY STAR Qualified Freezer	3	$94	3,347	223	0	3	$198	3,347	223	0
Appliance Recycling	1	$86	11,064	1,252	0					
Additional Low Income										
Energy Efficiency Kits	20	$500	203,396	22,600	3					
Building Shell - Existing Home Only										
Weatherization Rebates						12	$1,023	272,727	10,909	1
Residential Total	**1,079**	**$21,091**	**2,557,080**	**196,039**	**70**	**333**	**$21,960**	**2,681,808**	**143,197**	**26**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	217	$543	163,004	44,055	13					
High Efficiency Interior Lighting						451	$1,190	538,256	84,102	3
Exterior Lighting										
High Efficiency Exterior Lighting	2	$75	4,079	833	0	35	$1,155	231,624	21,057	
Ag/Commercial & Industrial Heating and Cooling										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	1	$75	10,689	713	0	67	$1,056	175,832	11,722	2
Variable Speed Drive Motor Incentive										
Agricultural										
Hog Farrowing - Heat Lamps (<= 175W)										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**220**	**$693**	**177,773**	**45,600**	**13**	**553**	**$3,401**	**945,711**	**116,881**	**5**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	575	$34,500			288	479	$23,682			266
Air Conditioning Load Control						121	$1,560			94
Dual-Fuel Space Heating										
Crop Drying										
Load Control	8				16	2	$316			4
Irrigation										
Load Control	12				79	19	$3,002			139
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	20	$6,250								
IV. Educational & Research Programs										
Member Information and Education	900	$2,525				842	$5,105			
Living with Energy in Iowa	900	$4,320				842	$2,250			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	900	$4,150				842	$5,719			
TOTAL	**4,614**	**$73,529**	**2,734,852**	**241,639**	**466**	**4,033**	**$66,995**	**3,627,519**	**260,078**	**535**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

Pella Cooperative Electric
A Touchstone Energy Partner
The power of human connections

Pella Cooperative Electric Association
Energy Efficiency Filing
Qualitative Results

Pella Cooperative Electric Association is a not for profit electric distribution cooperative with headquarters in Pella, Iowa located approximately 40 miles southeast of Des Moines. Founded in 1936 Pella Cooperative Electric serves member-consumers in Marion, Jasper, Mahaska, Poweshiek, and Warren counties. Reliable service is provided to about 2899 accounts using approximately 632 miles of line. Therefore, the Cooperative has a density of 4.6 member-consumers per mile of distribution line.

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Pella Cooperative Electric was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before January 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Pella Cooperative Electric and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant. Pella Cooperative Electric developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Pella Cooperative Electric and included information for each individual electric cooperative. The IAEC facilitated the

compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Pella Cooperative Electric.

Pella Cooperative Electric offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. The majority of the Cooperative's system is residential members so we offer several energy efficiency measures targeted toward these members. In 2012, our board of directors approved offering more than 90 distinct energy efficiency programs. The Cooperative makes decisions about these programs on a local level allowing us to customize aspects such as the rebate amounts. We offer residential rebates on geothermal systems and air source heat pumps. We also have rebates for an all star home (newly constructed, all electric homes with added efficiencies), compact fluorescent light bulbs, LED lighting, weatherization, heat recovery, and central air. Furthermore, we sell high efficiency electric water heaters that qualify for rebates, and we provide installation services for a small fee.

Pella Cooperative Electric also offers several programs for our commercial and agricultural members. For example, we offer commercial rebates on adjustable speed drives, HVAC (heating, ventilation, and air conditioning) equipment, lighting, and commercial refrigerators and freezers. In addition, we also offer agriculture rebates on adjustable speed drives, dairy equipment, HVAC equipment, ventilation fans, and lighting. Participation in commercial and agricultural programs is expected to be lower because the vast majority of our system is residential members.

Another energy efficiency measure is offering electrical consumption reports and assessments free of charge to all members. A report shows the historical electrical consumption data compared to temperature data by monthly and daily totals for a particular account. An electrical consumption assessment is when a cooperative employee visits a location to identify major electric users and potential causes of high bills. In addition, the member will also receive personalized recommendations of the most effective ways to reduce electrical use. Both a report and assessment are available upon request and are listed as services on our website.

In 2013, Pella Cooperative Electric participated in the Energy Star Change A Light, Change the World campaign. This program encourages members to save energy by replacing incandescent light bulbs with compact fluorescent light bulbs (CFLs). For a limited time, several local retailers offer CFLs at a discounted price during the Change A Light Campaign. It provides a great opportunity for members to purchase CFLs at a more affordable price.

In addition, we promote the safe disposal of CFL light bulbs by providing a CFL recycling bucket in our office.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Pella Cooperative Electric is dedicated to the education of our member-consumers to help

them make wise decisions when it comes to energy efficiency. The Cooperative publishes a monthly newsletter (called HighLines) that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include using cold water to wash clothes, turning down the temperature on their water heater, adding insulation and sealing air leaks, turning off lights, and many more affordable do-it-yourself ideas. We also publish columns throughout the year that gives details about Pella Cooperative Electric's rebates and provides step-by-step tips for energy efficiency. Furthermore, the Cooperative provides our newsletter in an electronic version for members who prefer to receive it paperless.

Pella Cooperative Electric provides a separate e-newsletter, called Questline, for our commercial members. The Pella Cooperative Electric Questline service includes an on-line library of information with a database of technical business and engineering documents and resources. The on-line portal also includes targeted research tools (for patent searches, MSDS documents, company profile information, workplace posters, and more) and benchmark industry data. If commercial members have further questions about energy efficiency, Questline includes an "Ask an Expert" hotline service. There is no usage limit, all questions and answers are held in strict confidence, and answers are typically issued within 24-48 hours.

The Cooperative partners with Iowa State University Extension for a farm energy initiative program with tips to manage energy use on the farm. We realize energy inputs are a huge expense on the farm, so we try to provide energy efficiency measures. For example, articles on energy efficient fans for swine production are provided by this program. This tool also provides a farm energy log to track energy use on the farm. It's a wonderful tool that reveals opportunities for energy savings on the farm.

In addition, Pella Cooperative Electric consistently shares energy efficiency messages on our website. We have website pages with information about rebates, appliance recycling, energy efficiency, and energy conservation. Under the residential category, there is a comprehensive "Energy Efficiency" page and "Energy Conservation" page. Both pages outline the actions to become more efficient with the electricity used in homes. It also includes a comprehensive list of no-cost and low-cost home improvements. In addition, we publish our monthly energy saver column (from our newsletter) to the home page of our website so it is clearly visible to all who visit.

Another communication source used to educate our members is our Facebook and Twitter pages. Postings are done every week that covers topics related to energy efficiency. For example, we will post links to our website, specifically to pages about energy efficiency. We might post a simple energy efficiency tip such as: save some energy by letting your clothes air dry.

Pella Cooperative Electric provides printed materials for our members. '101 Easy Ways to Save Energy and Money,' a publication produced by Touchstone Energy, is available online and in our office.

Member-consumers are also encouraged to sign up for ebill. This allows them to pay their bill online and gives them access to their electric use. Ebill provides graphs of monthly cost, daily cost, monthly use, and daily use for a 12 month period. By tracking their use, member-consumers can see results from their choices to be more efficient.

The cooperative records thirty second public service announcements about energy efficiency which are played on a local radio station. Every three months a new ad is recorded; at least one out of the four ads recorded per year are announcements related to energy efficiency. In 2013, our public service announcements included information on energy efficient water heater rebates and installations provided through the Cooperative.

Pella Cooperative Electric also offers to share education materials and/or make presentations at our local schools. Through multiple education efforts, we encourage all our members to make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Pella Cooperative Electric also has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These energy efficiency programs were reviewed or designed during the assessment of potential process in which Pella Cooperative Electric participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

Pella Cooperative Electric reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

Based on a survey completed in 2009, member-consumers have gained acceptance of the Cooperative's energy efficiency portfolio. When asked if they had taken steps to reduce their homes energy use in the past year, 88% responded yes. Of those surveyed, 37% said they installed a CFL light bulb during the past year.

This filing marks the end of this 5 year plan for Pella Electric Cooperative. Pella Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Pella Cooperative Electric Association	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	30	$4,676	155,138	16,620	11,080	76	$11,593	373,361	80,865	26,668
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	4	$126	3,532	588	392	9	$282	7,945	2,451	882
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	75	$183,981	19,952,425	3,124,708	997,622	51	$99,334	13,448,111	2,399,563	672,405
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	33	$23,004	3,819,328	908,330	254,622	14	$9,565	1,576,312	318,969	105,087
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	2	$282	33,150	2,487	1,658	5	$580	62,158	12,431	3,108
Residential Contractor Rebates	Incentive for heat pump installs	107	$21,302				49	$10,566			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	7,880	$18,125	3,696,779	1,295,084	506,408	18,813	$37,684	8,094,372	2,586,352	1,108,819
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	12,659	$33,202	6,009,221	1,649,983	823,182	15,192	$39,862	7,211,254	4,797,595	987,844
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.	2	$14	2,910	219	146	10	$205	21,821	1,636	1,091
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	850	$10,009	486,895	113,711	29,688	126	$2,167	138,071	12,599	8,419
ENERGY STAR LED lighting	Rebate for LED lighting.	4	$150	5,316	444	296	339	$4,223	450,576	35,665	25,032
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	6	$118	17,973	3,994	999	4	$100	11,982	666	666
CFL Recycling	Recycling of compact florescent light bulbs.		$98					$148			
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	176	$6,064	205,854	70,176	46,784	381	$13,685	585,788	403,255	133,133
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	247	$42,691	931,517	206,528	62,100	160	$32,893	568,881	122,884	37,926
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	9	$6,288	221,809	66,924	18,483	8	$4,997	183,566	19,121	15,297
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	100	$3,919	331,291	142,823	36,810					
Flow Restrictors - Shower	Incentive for low-flow shower head.	100	$6,531	628,197	243,740	62,820					
Tank Insulation	Incentive for water heater tank insulation.	9	$176	15,275	6,110	1,528					
Pipe Insulation	Incentive for water pipe insulation.	9	$176	15,920	4,245	1,061					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	126	$8,697	300,011	70,666	27,273	180	$12,466	434,075	119,545	39,461
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	78	$2,377	99,378	24,064	9,034	99	$2,961	127,220	37,148	11,565
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	172	$5,349	270,124	47,220	18,009	219	$6,648	343,938	72,872	22,930
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	46	$1,445	127,703	37,092	10,643	22	$654	61,973	17,138	5,165
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	49	$1,570	54,273	11,520	3,619	44	$1,366	48,735	8,345	3,249
Appliance Recycling	Incentives for appliance recycling.	178	$13,627	1,813,200	711,219	201,467	66	$5,203	558,900	238,019	62,100
Efficient Television	Rebate for efficient television.	48	$2,496	96,543	24,136	8,045	61	$3,048	121,010	26,285	10,084
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	22	$13,944	727,386	83,759	24,246	8	$4,156	264,504	31,960	8,817
Advanced Lighting Package		3	$784	25,789	5,158	1,289					
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	16	$732	162,194	72,086	18,022					
Weatherization Rebates	Rebates for various insulation measures.	6	$1,177	27,872	3,716	929					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	83	$24,696	1,286,773	153,691	43,344	24	$7,681	661,161	67,253	22,039
Residential Total		**23,129**	**$437,826**	**41,523,779**	**9,101,042**	**3,221,598**	**35,960**	**$312,067**	**35,355,717**	**11,412,618**	**3,311,786**
Percentage of 5 year plan goal - Residential								**71%**	**85%**		**103%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Pella Cooperative Electric Association	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	490	$1,281	264,398	294,975	73,444	1,204	$2,399	604,262	347,184	167,850
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	1,674	$53,879	3,385,331	1,232,925	560,342	1,689	$74,584	4,445,863	2,485,377	694,666
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	10	$4,605	425,851	106,463	21,293					
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	10	$526								
Ag/Commercial & Industrial Motors											
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	3	$4,706	1,110,718	296,192	74,048					
Agricultural											
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	18	$2,152	94,983	30,782	7,915					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	12	$574	47,452	15,158	3,954					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	3	$196	28,408	9,469	2,367					
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	24	$94	15,976	15,643	3,994					
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	3	$98	5,984	2,394	598					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		3	$49,650	4,018,464	1,215,396	303,849					
Ag, Commercial and Industrial Total		**2,250**	**$117,762**	**9,397,566**	**3,219,397**	**1,051,805**	**2,893**	**$76,983**	**5,050,125**	**2,832,562**	**862,517**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**65%**	**54%**		**82%**
II. Demand Response Programs											
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price	15	$4,500								
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	5	$5,724				1	$4,085			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	3	$3,000				1	$69			
Energy Audit Services - Residential *	Energy Audit Services - Residential	12	$4,730				19	$7,722			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	13,564	$161,445				12,108	$162,204			
Peak Alert	Peak Alert	8,724	$506								
Living with Energy in Iowa	Living with Energy in Iowa magazine.	324	$896				772	$2,075			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,840	$30,273				12,108	$33,376			
TOTAL		**52,866**	**$766,662**	**50,921,345**	**12,320,438**	**4,273,403**	**63,862**	**$598,581**	**40,405,842**	**14,245,180**	**4,174,302**
Percentage of 5 year plan goal achieved								**78%**	**79%**		**98%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Pella Cooperative Electric Association	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning						15	2,042	80,156	5,725	6
ENERGY STAR Qualified Room Air Conditioner										
Geothermal Heat Pump	15	$39,967	3,955,327	197,766	6	19	$36,253	5,010,080	250,504	9
Air Source Heat Pump	9	$6,316	1,052,792	70,186	3	2	$1,315	233,954	15,597	1
Heat Recovery Ventilators						2	$104	24,863	1,243	
Residential Contractor Rebates	24	$4,800				20	$3,265			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,109	$2,918	526,414	72,112	67	1,216	$2,632	645,571	88,434	80
Local CFL Rebate Program(s)	860	$2,263	408,220	55,921	52	13,069	$34,452	6,203,521	849,797	864
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	249	$2,866	140,005	8,537	2					
ENERGY STAR LED lighting										
ENERGY STAR Ceiling Fan	2	$39	5,991	333	0					
CFL Recycling							$148			
Exterior Lighting										
High Efficiency Exterior Lighting						138	$4,289	164,622	37,414	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	58	$8,421	224,233	14,949	2	40	$13,667	139,609	9,307	1
Heat Pump Water Heater - (Integrated)	2	$1,316	45,891	3,824	0					
Flow Restrictors - Faucet	27	$1,066	89,449	9,939	1					
Flow Restrictors - Shower	27	$1,776	169,613	16,961	1					
Tank Insulation	3	$59	5,092	509	0					
Pipe Insulation	3	$59	5,307	354	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	18	$1,289	43,643	3,968	1	44	$2,509	92,459	8,405	3
ENERGY STAR Qualified Dishwasher	12	$395	15,421	1,402	1	31	$824	39,837	3,622	3
ENERGY STAR Qualified Refrigerator	25	$822	39,262	2,617	0	50	$1,330	78,525	5,235	1
ENERGY STAR Qualified Dehumidifier	12	$395	33,804	2,817	0	8	$213	22,536	1,878	0
ENERGY STAR Qualified Freezer	11	$362	12,184	812	0	3	$80	3,323	222	0
Appliance Recycling	45	$3,441	482,951	53,661	9	20	$1,226	152,949	16,994	4
Efficient Television	9	$474	17,854	1,488	0	3	$126	5,951	496	0
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	5	$3,289	165,315	5,511	1	4	$2,021	132,252	4,408	1
Advanced Lighting Package	1	$263	8,596	430	0					
Additional Low Income										
Energy Efficiency Kits	5	$230	50,686	5,632	1					
Weatherization Rebates	2	$395	9,291	310	0					
Building Shell - Existing Home Only										
Weatherization Rebates	23	$6,952	343,376	11,596	3	3	$445	93,469	3,116	0
Residential Total	**2,556**	**$90,175**	**7,850,715**	**541,634**	**151**	**14,687**	**$106,941**	**13,123,676**	**1,302,398**	**976**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Pella Cooperative Electric Association	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	166	$437	89,572	24,881	10					
High Efficiency Interior Lighting	200	$3,350	233,408	45,761	1	677	$9,701	1,104,571	172,589	9
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	10	$4,605	425,851	21,293	1					
Commercial Contractor Rebate (GS & AS)	10	$526								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,579	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	5	$602	26,384	2,199	1					
Circulating Fans --- BESS Lab Ratings	3	$145	11,863	989	0					
Efficient Livestock Waterers	1	$66	9,469	789						
Hog Farrowing - Heat Lamps (<= 175W)	7	$28	4,660	1,165						
Hog Farrowing - Single Crate Heating Pads (<=85W)	1	$33	1,995	199						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$16,658	1,339,488	101,283	10					
Ag, Commercial and Industrial Total	**405**	**$28,029**	**2,512,930**	**223,241**	**25**	**677**	**$9,701**	**1,104,571**	**172,589**	**9**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Commercial and Industrial Time-of-Day Price	5	$1,500								
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$1,000				1	$4,085			
Expert Energy Services - C&I	1	$1,000				1	$69			
Energy Audit Services - Residential *						19	$7,094			
IV. Educational & Research Programs										
Member Information and Education	2,878	$28,581				2,393	$37,380			
Peak Alert	2,878	$172								
Living with Energy in Iowa						165	$465			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$5,769				2,393	$6,155			
TOTAL	**8,724**	**$156,226**	**10,363,645**	**764,875**	**176**	**20,336**	**$171,889**	**14,228,247**	**1,474,987**	**985**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Pella Cooperative Electric Association	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning						14	$2,296	71,068	5,076	5
ENERGY STAR Qualified Room Air Conditioner						1	$32	883	98	
Geothermal Heat Pump	17	$45,000	4,482,704	224,135	7	13	$25,858	3,427,950	171,397	6
Air Source Heat Pump	9	$6,275	1,052,792	70,186	3	4	$2,838	406,543	27,103	1
Heat Recovery Ventilators						2	$319	24,863	1,243	
Residential Contractor Rebates	28	$5,600				9	$2,296			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,109	$2,899	526,414	72,112	67	871	$1,833	423,933	58,073	11
Local CFL Rebate Program(s)	860	$2,248	408,220	55,921	52	2,076	$5,297	985,424	134,990	137
ENERGY STAR CFL/LED Fixtures						1	$10	2,182	109	
T8 or better Lighting Fixtures	274	$3,135	154,193	9,402	2	5	$191	8,495	518	
ENERGY STAR LED lighting										
ENERGY STAR Ceiling Fan	2	$39	5,991	333	0					
CFL Recycling										
Exterior Lighting										
High Efficiency Exterior Lighting						104	$3,961	118,515	26,935	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	59	$8,497	227,672	15,178	2	42	$9,149	150,618	10,041	1
Heat Pump Water Heater - (Integrated)	3	$1,961	68,837	5,736	1					
Flow Restrictors - Faucet	34	$1,333	112,639	12,515	1					
Flow Restrictors - Shower	34	$2,222	213,587	21,359	2					
Tank Insulation	3	$59	5,092	509	0					
Pipe Insulation	3	$59	5,307	354	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	18	$1,281	43,643	3,968	1	39	$2,813	91,832	8,348	3
ENERGY STAR Qualified Dishwasher	12	$392	15,421	1,402	1	16	$510	20,561	1,869	2
ENERGY STAR Qualified Refrigerator	26	$850	40,833	2,722	0	48	$1,531	75,384	5,026	1
ENERGY STAR Qualified Dehumidifier	12	$392	33,804	2,817	0	5	$159	14,085	1,174	
ENERGY STAR Qualified Freezer	11	$359	12,184	812	0	7	$223	7,753	517	
Appliance Recycling	46	$3,518	493,683	54,854	9	26	$2,092	237,994	26,444	5
Efficient Television	10	$523	19,838	1,653	0	17	$867	33,724	2,810	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	6	$3,922	198,378	6,613	1	1	$638	33,063	1,102	
Advanced Lighting Package	1	$261	8,596	430	0					
Additional Low Income										
Energy Efficiency Kits	6	$275	60,823	6,758	1					
Weatherization Rebates	2	$392	9,291	310	0					
Building Shell - Existing Home Only										
Weatherization Rebates	25	$7,265	352,666	11,906	3	5	$2,845	184,227	6,141	1
Residential Total	**2,610**	**$98,757**	**8,552,606**	**581,984**	**153**	**3,306**	**$65,758**	**6,319,097**	**489,014**	**175**
Percentage of 5 year plan goal - Residential										

	Pella Cooperative Electric Association	Plan Year 2 (2011) Estimated Achievable Potential					Plan Year 2 (2011) Year to Date Results				
		Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
	Agriculture/Commercial & Industrial Lighting										
	Interior Lighting										
	Change a Light Rebate Program	166	$434	89,572	24,881	10	54	$113	29,005	8,057	1
	High Efficiency Interior Lighting	240	$4,176	286,839	55,386	1	273	$26,663	1,251,633	195,568	29
	Ag/Commercial & Industrial Heating and Cooling										
	Geothermal Heat Pump										
	Commercial Contractor Rebate (GS & AS)										
	Ag/Commercial & Industrial Motors										
	Variable Speed Drive Motor Incentive	1	$1,569	370,239	24,683	2					
	Agricultural										
	Livestock Ventilation Fans	6	$718	31,661	2,638	1					
	Circulating Fans --- BESS Lab Ratings	4	$192	15,817	1,318	0					
	Efficient Livestock Waterers	1	$65	9,469	789						
	Hog Farrowing - Heat Lamps (<= 175W)	8	$31	5,325	1,331						
	Hog Farrowing - Single Crate Heating Pads (<=85W)	1	$33	1,995	199						
	Ag/Commercial & Industrial Custom Rebates										
	Custom Rebate Program	1	$16,550	1,339,488	101,283	10					
	Ag, Commercial and Industrial Total	**428**	**$23,767**	**2,150,406**	**212,509**	**24**	**327**	**$26,776**	**1,280,638**	**203,625**	**30**
	Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs											
	Commercial and Industrial Time-of-Day Price	5	$1,500								
III. Energy Audit & Technical Support Programs											
	Expert Energy Services - Agricultural	1	$1,000								
	Expert Energy Services - C&I	1	$1,000								
	Energy Audit Services - Residential *										
IV. Educational & Research Programs											
	Member Information and Education	2,908	$29,433				2,394	$39,797			
	Peak Alert	2,908	$168								
	Living with Energy in Iowa						161	$454			
	Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$5,769				2,394	$6,387			
	TOTAL	**8,861**	**$161,393**	**10,703,012**	**794,493**	**177**	**8,582**	**$139,172**	**7,599,735**	**692,639**	**205**
	Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Pella Cooperative Electric Association	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning						17	2,676	81,483	5,820	6
ENERGY STAR Qualified Room Air Conditioner						5	$156	4,414	490	
Geothermal Heat Pump	19	$49,968	5,010,080	250,504	8	5	$11,458	1,318,442	65,922	2
Air Source Heat Pump	9	$6,234	1,052,792	70,186	3	3	$2,116	350,931	23,395	1
Heat Recovery Ventilators										
Residential Contractor Rebates	31	$6,200				6	$1,493			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,054	$2,738	500,307	68,535	63	4,824	$9,889	2,145,963	293,968	40
Local CFL Rebate Program(s)	817	$2,122	387,809	53,125	49	39	$102	18,512	2,536	3
ENERGY STAR CFL/LED Fixtures						1	$10	2,182	109	
T8 or better Lighting Fixtures	307	$3,488	172,683	10,529	2	24	$590	21,527	1,313	1
ENERGY STAR LED lighting						6	$224	7,975	443	
ENERGY STAR Ceiling Fan	2	$39	5,991	333	0					
CFL Recycling										
Exterior Lighting										
High Efficiency Exterior Lighting						23	$846	25,643	5,828	
Residential Water Heating (low income included)										
High Efficiency Water Heater	60	$8,571	231,110	15,407	2	24	$2,987	82,525	5,502	1
Heat Pump Water Heater - (Integrated)	4	$2,597	91,783	7,649	1	1	$622	22,946	1,912	
Flow Restrictors - Faucet	39	$1,519	129,204	14,356	1					
Flow Restrictors - Shower	39	$2,532	244,997	24,500	2					
Tank Insulation	3	$58	5,092	509	0					
Pipe Insulation	3	$58	5,307	354	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	18	$1,273	43,643	3,968	1	25	$1,960	69,332	6,303	2
ENERGY STAR Qualified Dishwasher	12	$390	15,421	1,402	1	15	$467	19,276	1,752	1
ENERGY STAR Qualified Refrigerator	27	$877	42,403	2,827	0	43	$1,338	67,531	4,502	
ENERGY STAR Qualified Dehumidifier	12	$390	33,804	2,817	0	1	$31	2,817	235	
ENERGY STAR Qualified Freezer	11	$357	12,184	812	0	14	$436	15,507	1,034	
Appliance Recycling	47	$3,594	504,416	56,046	9	14	$1,294	107,283	11,920	3
Efficient Television	11	$571	21,822	1,818	0	8	$398	15,870	1,323	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	7	$4,545	231,441	7,715	1	1	$622	33,063	1,102	
Advanced Lighting Package	1	$260	8,596	430	0					
Additional Low Income										
Energy Efficiency Kits	5	$227	50,686	5,632	1					
Weatherization Rebates	2	$390	9,291	310	0					
Building Shell - Existing Home Only										
Weatherization Rebates	27	$7,573	361,957	12,216	3	4	$1,069	65,465	2,182	1
Residential Total	**2,567**	**$106,572**	**9,172,817**	**611,978**	**149**	**5,103**	**$40,784**	**4,478,687**	**437,591**	**61**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Pella Cooperative Electric Association	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	158	$410	85,255	23,682	9	318	$656	169,554	47,098	2
High Efficiency Interior Lighting	270	$4,791	326,370	62,521	1	496	$25,978	1,451,866	226,854	30
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,558	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	7	$832	36,938	3,078	1					
Circulating Fans --- BESS Lab Ratings	5	$238	19,772	1,648	1					
Efficient Livestock Waterers	1	$65	9,469	789						
Hog Farrowing - Heat Lamps (<= 175W)	9	$35	5,991	1,498						
Hog Farrowing - Single Crate Heating Pads (<=85W)	1	$32	1,995	199						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$16,442	1,339,488	101,283	10					
Ag, Commercial and Industrial Total	**453**	**$24,404**	**2,195,517**	**219,381**	**24**	**814**	**$26,634**	**1,621,420**	**273,952**	**32**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Commercial and Industrial Time-of-Day Price	5	$1,500								
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$1,000								
Expert Energy Services - C&I	1	$1,000								
Energy Audit Services - Residential *										
IV. Educational & Research Programs										
Member Information and Education	2,938	$30,312				2,416	$32,502			
Peak Alert	2,938	$165								
Living with Energy in Iowa						161	$426			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$5,769				2,416	$6,908			
TOTAL	**8,903**	**$170,723**	**11,368,334**	**831,359**	**174**	**10,910**	**$107,254**	**6,100,107**	**711,543**	**93**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Pella Cooperative Electric Association	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	15	$2,338	77,569	5,540	5	13	$2,016	61,980	4,427	5
ENERGY STAR Qualified Room Air Conditioner	2	$63	1,766	196		3	$94	2,648	294	0
Geothermal Heat Pump	12	$24,523	3,252,157	162,608	5	6	$12,484	1,582,131	79,107	3
Air Source Heat Pump	3	$2,090	330,476	22,032	1	3	$1,858	350,931	23,395	1
Heat Recovery Ventilators	1	$141	16,575	829		1	$157	12,432	622	
Residential Contractor Rebates	12	$2,351				6	$1,512			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,304	$4,785	1,071,822	146,825	138	6,386	$12,679	2,639,978	361,641	49
Local CFL Rebate Program(s)	5,061	$13,284	2,402,486	329,108	304	8	$11	3,797	520	1
ENERGY STAR CFL/LED Fixtures	1	$7	1,455	73						
T8 or better Lighting Fixtures	10	$260	10,007	610						
ENERGY STAR LED lighting	2	$75	2,658	148		132	$2,006	175,446	9,747	6
ENERGY STAR Ceiling Fan										
CFL Recycling		$49								
Exterior Lighting										
High Efficiency Exterior Lighting	88	$3,032	102,927	23,392	1	55	$1,789	123,219	28,004	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	35	$8,601	124,251	8,283	1	27	$3,590	99,040	6,603	1
Heat Pump Water Heater - (Integrated)		$207	7,649	637						
Flow Restrictors - Faucet										
Flow Restrictors - Shower										
Tank Insulation										
Pipe Insulation										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	36	$2,427	84,541	7,685	3	38	$2,778	96,936	8,812	4
ENERGY STAR Qualified Dishwasher	21	$600	26,558	2,414	2	17	$535	21,846	1,986	2
ENERGY STAR Qualified Refrigerator	47	$1,400	73,813	4,921		47	$1,480	73,813	4,921	1
ENERGY STAR Qualified Dehumidifier	5	$134	13,146	1,096		2	$63	5,634	469	0
ENERGY STAR Qualified Freezer	8	$246	8,861	591		8	$252	8,861	591	0
Appliance Recycling	20	$1,537	166,075	18,453	4	4	$403	42,929	4,770	1
Efficient Television	9	$464	18,515	1,543		19	$957	37,692	3,141	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,094	66,126	2,204						
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits										
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	4	$1,453	114,387	3,813		8	$2,614	298,956	9,965	1
Residential Total	**7,698**	**$71,161**	**7,973,820**	**743,001**	**464**	**6,783**	**$47,278**	**5,638,269**	**549,016**	**75**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Pella Cooperative Electric Association	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program						447	$887	219,481	60,967	3
High Efficiency Interior Lighting	482	$20,781	1,269,357	198,337	4	149	$6,822	383,630	59,942	2
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive										
Agricultural										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings										
Efficient Livestock Waterers										
Hog Farrowing - Heat Lamps (<= 175W)										
Hog Farrowing - Single Crate Heating Pads (<=85W)										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**482**	**$20,781**	**1,269,357**	**198,337**	**4**	**596**	**$7,709**	**603,111**	**120,909**	**5**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Commercial and Industrial Time-of-Day Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$1,362								
Expert Energy Services - C&I										
Energy Audit Services - Residential *	6	$2,365					$314			
IV. Educational & Research Programs										
Member Information and Education	2,420	$36,560				2,423	$31,114			
Peak Alert										
Living with Energy in Iowa	162	$448				156	$390			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,420	$6,483				2,423	$7,074			
TOTAL	**13,189**	**$139,160**	**9,243,177**	**941,338**	**468**	**12,381**	**$93,879**	**6,241,380**	**669,925**	**80**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Pella Cooperative Electric Association	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	15	$2,338	77,569	5,540	5	17	$2,563	78,675	5,620	6
ENERGY STAR Qualified Room Air Conditioner	2	$63	1,766	196						
Geothermal Heat Pump	12	$24,523	3,252,157	162,608	5	8	$13,281	2,109,508	105,475	4
Air Source Heat Pump	3	$2,090	330,476	22,032	1	2	$1,438	233,954	15,597	1
Heat Recovery Ventilators	1	$141	16,575	829						
Residential Contractor Rebates	12	$2,351				8	$2,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,304	$4,785	1,071,822	146,825	138	5,516	$10,651	2,238,927	306,702	42
Local CFL Rebate Program(s)	5,061	$13,284	2,402,486	329,108	304					
ENERGY STAR CFL/LED Fixtures	1	$7	1,455	73		8	$185	17,457	873	0
T8 or better Lighting Fixtures	10	$260	10,007	610		97	$1,386	108,049	6,588	1
ENERGY STAR LED lighting	2	$75	2,658	148		201	$1,993	267,156	14,842	9
ENERGY STAR Ceiling Fan						4	$100	11,982	666	0
CFL Recycling		$49								
Exterior Lighting										
High Efficiency Exterior Lighting	88	$3,032	102,927	23,392	1	61	$2,800	153,789	34,952	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	35	$8,601	124,251	8,283	1	27	$3,500	97,089	6,473	1
Heat Pump Water Heater - (Integrated)		$207	7,649	637		7	$4,375	160,620	13,385	2
Flow Restrictors - Faucet										
Flow Restrictors - Shower										
Tank Insulation										
Pipe Insulation										
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	36	$2,427	84,541	7,685	3	34	$2,406	83,516	7,592	3
ENERGY STAR Qualified Dishwasher	21	$600	26,558	2,414	2	20	$625	25,701	2,336	2
ENERGY STAR Qualified Refrigerator	47	$1,400	73,813	4,921		31	$969	48,685	3,246	0
ENERGY STAR Qualified Dehumidifier	5	$134	13,146	1,096		6	$188	16,902	1,408	0
ENERGY STAR Qualified Freezer	8	$246	8,861	591		12	$375	13,291	886	0
Appliance Recycling	20	$1,537	166,075	18,453	4	2	$188	17,745	1,972	0
Efficient Television	9	$464	18,515	1,543		14	$700	27,773	2,314	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,094	66,126	2,204		2	$875	66,126	2,204	0
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits										
Weatherization Rebates										
Building Shell - Existing Home Only										
Weatherization Rebates	4	$1,453	114,387	3,813		4	$708	19,044	635	1
Residential Total	**7,698**	**$71,161**	**7,973,820**	**743,001**	**464**	**6,081**	**$51,306**	**5,795,989**	**533,767**	**73**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Pella Cooperative Electric Association	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program						385	$743	186,221	51,728	3
High Efficiency Interior Lighting	482	$20,781	1,269,357	198,337	4	94	$5,420	254,164	39,713	1
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive										
Agricultural										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings										
Efficient Livestock Waterers										
Hog Farrowing - Heat Lamps (<= 175W)										
Hog Farrowing - Single Crate Heating Pads (<=85W)										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**482**	**$20,781**	**1,269,357**	**198,337**	**4**	**479**	**$6,163**	**440,385**	**91,441**	**4**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Commercial and Industrial Time-of-Day Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$1,362								
Expert Energy Services - C&I										
Energy Audit Services - Residential *	6	$2,365					$314			
IV. Educational & Research Programs										
Member Information and Education	2,420	$36,560				2,482	$21,411			
Peak Alert										
Living with Energy in Iowa	162	$448				129	$341			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,420	$6,483				2,482	$6,852			
TOTAL	**13,189**	**$139,160**	**9,243,177**	**941,338**	**468**	**11,653**	**$86,387**	**6,236,374**	**625,208**	**78**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

Pleasant Hill Community Line

Pleasant Hill Community Line (Pleasant Hill) provides reliable electric service to a rural region in central Iowa.

Pleasant Hill is a small town not-for-profit cooperative, based out of Webster City, Iowa. The co-op assists member-consumers in managing their electric needs by advocating energy efficient practices.

Pleasant Hill is governed by a five member board of directors all elected by and from the member-consumers served by the electric cooperative. The cooperative serves member-consumers in Hamilton County. The cooperative provides electric service to 104 member-consumers, all of which are residential customers.

Pleasant Hill procures power supply from Webster City Municipal.

Due to Pleasant Hill's size, it is difficult for Pleasant Hill to fund and develop a large portfolio of energy efficiency programs. Pleasant Hill provides all member-consumers who attend their annual meeting a free CFL light bulb. Pleasant Hill has also effectuated an agreement with the Webster City Municipal to sell CFL light bulbs at cost to Pleasant Hill member-consumers.

Pleasant Hill continues to endorse and encourage its member-consumers to use energy wisely and to look for the ENERGY STAR label when purchasing electric appliances.

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Prairie Energy Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Prairie Energy Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Prairie Energy Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Prairie Energy Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Prairie Energy Cooperative.

Prairie Energy Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Prairie Energy Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Prairie Energy Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial

member-consumers of Prairie Energy Cooperative, we offer lighting and premium-efficiency motor rebate programs. Providing rebate programs for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to meet both the needs of the cooperative and the member-consumer. Prairie Energy Cooperative also offers energy audits for all member-consumers.

In addition to the rebate opportunities, Prairie Energy Cooperative will offer two demand response programs that help us to be both environmentally and fiscally responsible. These programs are water heater load control and air conditioning load control. As a member of the National Rural Electric Cooperative Association (NRECA), Prairie Energy Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies. This program has allowed us to replace our AMR meters with AMI Meters.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Prairie Energy Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Prairie Energy Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Prairie Energy Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. For example, the Marathon water heater is guaranteed for lifetime and the lifetime cost savings is 5,533 kilowatts. We also participate in the Pull the Plug program which removes old, non-efficient appliances from service.

These programs were reviewed or designed during the assessment of potential process in which Prairie Energy Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business

(contractors/electricians) to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

We have had a good response to the Pull the Plug program and the energy efficiency appliance program. The cooperative continues to do “in school” programs promoting energy efficiency. On any given day, depending on class size, we can reach anywhere from 60 to 250 elementary students. We feel that teaching students early to understand energy usage and to use it wisely will benefit greatly in the future.

This filing marks the end of this 5 year plan for Prairie Energy Cooperative. Prairie Energy Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Prairie Energy Cooperative	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	60	$12,450	264,102	56,593	18,864	36	$7,934	152,867	31,989	10,920
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	75	$135,525	19,918,395	2,987,759	995,920	92	$197,775	24,433,231	3,452,522	1,221,662
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	185	$120,250	21,795,849	4,005,724	1,453,057	89	$89,870	10,485,570	2,458,415	699,038
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	25	$4,065	313,020	46,953	15,651	27	$4,408	338,062	46,951	16,903
Residential Contractor Rebates	Incentive for heat pump installs						133	$40,409			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	4,274	$9,744	2,043,301	829,234	279,904	6,449	$18,187	3,083,119	1,278,103	422,345
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	2,741	$10,690	1,310,409	537,345	179,508	11,428	$59,948	5,463,464	3,382,493	748,420
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						76	$456	167,033	8,352	8,352
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	225	$1,755	155,644	26,363	9,491	272	$2,278	238,017	45,770	14,513
ENERGY STAR LED lighting	Rebate for LED lighting.						185	$940	247,652	24,765	13,758
CFL Recycling	Recycling of compact florescent light bulbs.	100	$1,200				77	$239			
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	30	$120	29,104	38,806	14,552	300	$11,994	457,320	230,998	98,564
LED Holiday Lighting	Rebate for holiday lighting.	120	$312	111,888	26,030	9,324	92	$1,043	85,781	19,892	7,149
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	217	$46,930	1,051,214	214,262	70,081	177	$90,945	866,900	175,880	57,794
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	10	$3,900	192,585	50,072	19,259	3	$1,174	57,776	7,703	5,778
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.						2	$1,178	46,220	17,333	3,852
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.						1	$391	22,444	3,741	1,870
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	750	$6,535	2,502,495	834,165	278,055	459	$2,723	1,531,527	559,814	170,169
Flow Restrictors - Shower	Incentive for low-flow shower head.	375	$6,535	2,372,625	711,788	237,263	278	$2,853	1,758,906	612,456	175,891
Pipe Insulation	Incentive for water pipe insulation.	375	$2,438	668,081	133,616	44,539	135	$207	240,509	73,876	16,034
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	125	$8,125	305,250	83,250	27,750	249	$19,986	608,058	168,276	55,278
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	200	$6,500	258,852	70,596	23,532	153	$6,043	198,022	56,944	18,001
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	175	$5,690	276,806	55,361	18,454	230	$9,137	363,802	77,188	24,253
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	25	$815	27,889	5,578	1,859	74	$3,031	82,551	16,509	5,503
Appliance Recycling	Incentives for appliance recycling.	260	$17,890	2,241,673	749,267	249,756	265	$31,507	2,101,226	748,322	236,942
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	5	$6,500	166,500	16,650	5,550	4	$5,813	133,200	8,880	4,440
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	150	$4,875	1,525,473	508,491	169,497	83	$3,710	844,094	264,417	93,789
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	125	$46,005	4,589,989	470,363	156,788	127	$36,164	3,632,720	389,945	124,471
Residential Total		**10,627**	**$458,847**	**62,121,145**	**12,458,265**	**4,278,652**	**21,496**	**$650,342**	**57,640,071**	**14,161,534**	**4,255,687**
Percentage of 5 year plan goal - Residential								**142%**	**93%**		**99%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Prairie Energy Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	450	$1,026	244,555	271,728	67,932	409	$1,218	222,273	249,538	61,743
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	10,049	$148,916	14,279,044	7,415,484	2,652,554	12,255	$89,153	12,600,558	5,800,414	2,268,858
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)						82	$2,905	384,990	62,149	43,369
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	72	$14,555	106,693	19,659	7,113					
Geothermal Heat Pump	Rebate for geothermal heat pump.						4	$2,075	69,442	13,888	3,472
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.						26	$7,224	680,519	171,002	45,368
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.							$600			
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	35	$9,100	194,056	35,115	12,937	9	$5,314	45,737	10,258	3,050
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	10	$6,875	106,893	18,528	7,126					
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	10	$21,750	3,728,934	646,349	248,596	198	$36,452	25,287,304	4,195,027	1,685,821
Agricultural											
Livestock Ventilation Fans	Rebate for livestock ventilation fans.						12	$703	106,960	17,827	8,913
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.						48	$2,805	749,330	62,444	62,444
Efficient Livestock Waterers	Rebate for efficient livestock waterer.						1	$115	9,537	2,385	795
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		80	$80,000	5,297,808	2,953,528	1,059,562					
Ag, Commercial and Industrial Total		**10,706**	**$282,222**	**23,957,983**	**11,360,390**	**4,055,819**	**13,044**	**$148,564**	**40,156,650**	**10,584,932**	**4,183,833**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**53%**	**168%**		**103%**

II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.						1,293	$390,449			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	110	$79,200				128	$130,265			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	220	$158,400				60	$123,371			
Energy Audit Services - Residential *	Energy Audit Services - Residential	415	$149,400				264	$91,612			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.						9,768	$13,157			
Member Information and Education	Member Information and Education	16,444	$259,749				16,187	$498,737			
Peak Alert	Peak Alert	16,444					9,768				
Living with Energy in Iowa	Living with Energy in Iowa magazine.	16,444	$22,988				16,187	$47,708			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	16,444	$92,090				16,187	$106,452			
TOTAL		**87,854**	**$1,502,895**	**86,079,128**	**23,818,655**	**8,334,471**	**104,382**	**$2,200,656**	**97,796,721**	**24,746,466**	**8,439,521**
Percentage of 5 year plan goal achieved								**146%**	**114%**		**101%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Prairie Energy Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	12	$2,490	52,820	3,773	4	6	1,716	27,972	1,998	2
Geothermal Heat Pump	15	$27,105	3,983,679	199,184	23	18	$35,555	4,780,415	239,021	31
Air Source Heat Pump	25	$16,250	2,945,385	196,359	26	23	$19,426	2,709,754	180,650	26
Heat Recovery Ventilators	5	$813	62,604	3,130		1	$170	12,521	626	
Residential Contractor Rebates						36	$7,740			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	816	$1,860	390,111	53,440	49	1,330	$2,566	635,842	87,102	89
Local CFL Rebate Program(s)	541	$2,110	258,640	35,430	32	6,157	$18,206	2,943,520	403,222	410
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	25	$195	17,294	1,055	0	20	$161	13,835	844	0
ENERGY STAR LED lighting							$1			
CFL Recycling	10	$200				35	$149			
Exterior Lighting										
High Efficiency Exterior Lighting	5	$20	4,851	2,425	0	63	$2,108	63,077	14,336	1
LED Holiday Lighting	20	$52	18,648	1,554	5		$9			
Residential Water Heating (low income included)										
High Efficiency Water Heater	45	$9,750	218,282	14,552	2	33	$9,484	164,236	10,949	2
Heat Pump Water Heater - (Add-On)	1	$390	19,259	1,926	0		$3			
Heat Pump Water Heater - (Integrated)						1	$471	23,110	1,926	0
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	150	$1,307	500,499	55,611	3	107	$356	357,023	39,669	2
Flow Restrictors - Shower	75	$1,307	474,525	47,453	4	74	$368	468,198	46,820	4
Pipe Insulation	75	$488	133,616	8,908	2	82		146,087	9,739	2
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	25	$1,625	61,050	5,550	2	48	$3,196	117,216	10,656	4
ENERGY STAR Qualified Dishwasher	40	$1,300	51,770	4,706	4	34	$1,126	44,005	4,000	3
ENERGY STAR Qualified Refrigerator	35	$1,138	55,361	3,691	0	54	$1,788	85,415	5,694	1
ENERGY STAR Qualified Freezer	5	$163	5,578	372	0	8	$267	8,924	595	0
Appliance Recycling	52	$3,578	448,335	49,951	9	67	$5,265	528,611	59,756	14
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,300	33,300	1,110	0		$3			
Additional Low Income										
Energy Efficiency Kits	30	$975	305,095	33,899	4	17	$890	172,887	19,210	2
Building Shell - Existing Home Only										
Weatherization Rebates	25	$9,201	917,998	31,358	2	19	$5,256	554,850	19,113	2
Residential Total	**2,033**	**$83,615**	**10,958,698**	**755,436**	**171**	**8,233**	**$116,279**	**13,857,497**	**1,155,925**	**596**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Prairie Energy Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	150	$342	81,518	22,644	9	148	$288	80,431	22,342	10
High Efficiency Interior Lighting	1,564	$22,495	2,216,873	417,276	7	3,432	$19,599	2,838,183	766,723	13
Exterior Lighting										
High Efficiency Exterior Lighting						2	$67	2,230	455	0
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	11	$2,570	16,300	1,087	1					
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$1,300	27,722	1,848	0	1	$130	3,463	231	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	1	$750	10,689	713	0					
Variable Speed Drive Motor Incentive	1	$3,750	372,893	24,860	2	19	$10,335	7,084,975	472,332	45
Agricultural										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings										
Efficient Livestock Waterers										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	12	$12,500	794,671	158,934	32					
Ag, Commercial and Industrial Total	**1,744**	**$43,707**	**3,520,668**	**627,361**	**52**	**3,602**	**$30,419**	**10,009,282**	**1,262,082**	**68**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control							$58,929			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	20	$14,400				30	$21,600			
Expert Energy Services - C&I	40	$28,800				31	$54,193			
Energy Audit Services - Residential *	65	$23,400				69	$25,265			
IV. Educational & Research Programs										
Model Housing Education						3,258	$7,614			
Member Information and Education	3,289	$48,925				3,258	$69,554			
Peak Alert	3,289					3,258				
Living with Energy in Iowa	3,289	$4,618				3,258	$10,150			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	3,289	$18,418				3,258	$19,027			
TOTAL	**17,058**	**$265,882**	**14,479,366**	**1,382,797**	**222**	**28,255**	**$413,029**	**23,866,780**	**2,418,007**	**665**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Prairie Energy Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	12	$2,490	52,820	3,773	4	6	$1,479	25,455	1,819	3
Geothermal Heat Pump	15	$27,105	3,983,679	199,184	23	14	$35,667	3,718,100	185,905	24
Air Source Heat Pump	35	$22,750	4,123,539	274,903	36	26	$25,941	3,063,200	204,213	29
Heat Recovery Ventilators	5	$813	62,604	3,130		7	$1,203	87,646	4,382	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	808	$1,842	386,286	52,916	48	1,010	$4,383	482,858	66,145	67
Local CFL Rebate Program(s)	550	$2,145	262,942	36,020	33	5,138	$41,091	2,456,360	336,488	342
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	50	$390	34,588	2,109	1	104	$932	94,933	5,789	2
ENERGY STAR LED lighting						8	$38	10,709	595	
CFL Recycling	15	$200								
Exterior Lighting										
High Efficiency Exterior Lighting	5	$20	4,851	2,425	0	52	$1,740	52,063	11,833	1
LED Holiday Lighting	20	$52	18,648	1,554	5	29	$662	27,040	2,253	8
Residential Water Heating (low income included)										
High Efficiency Water Heater	45	$9,750	218,282	14,552	2	37	$22,392	186,414	12,428	2
Heat Pump Water Heater - (Add-On)	2	$780	38,517	3,852	0					
Heat Pump Water Heater - (Integrated)						1	$700	23,110	1,926	
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	150	$1,307	500,499	55,611	3	129	$800	430,429	47,825	3
Flow Restrictors - Shower	75	$1,307	474,525	47,453	4	91	$896	575,757	57,576	5
Pipe Insulation	75	$488	133,616	8,908	2	53	$207	94,422	6,295	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	25	$1,625	61,050	5,550	2	53	$6,649	129,426	11,766	5
ENERGY STAR Qualified Dishwasher	40	$1,300	51,770	4,706	4	31	$1,922	40,122	3,647	3
ENERGY STAR Qualified Refrigerator	35	$1,138	55,361	3,691	0	47	$2,936	74,342	4,956	1
ENERGY STAR Qualified Freezer	5	$163	5,578	372	0	20	$1,196	22,311	1,487	
Appliance Recycling	52	$3,578	448,335	49,951	9	55	$8,489	417,792	47,239	11
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,300	33,300	1,110	0		$136			
Additional Low Income										
Energy Efficiency Kits	30	$975	305,095	33,899	4	14	$948	142,377	15,820	2
Building Shell - Existing Home Only										
Weatherization Rebates	25	$9,201	917,998	31,358	2	37	$12,769	1,023,043	35,313	5
Residential Total	**2,075**	**$90,719**	**12,173,882**	**837,025**	**182**	**6,962**	**$173,176**	**13,177,909**	**1,065,700**	**514**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Prairie Energy Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	150	$342	81,518	22,644	9	130	$416	70,649	19,625	9
High Efficiency Interior Lighting	1,744	$26,053	2,569,394	475,995	8	77	$3,029	96,472	15,074	
Exterior Lighting										
High Efficiency Exterior Lighting						3	$101	3,345	683	
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	13	$2,535	19,264	1,284	1					
Geothermal Heat Pump						4	$2,075	69,442	3,472	1
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)						20	$5,538	523,476	34,898	2
Commercial Contractor Rebate (GS & AS)							$600			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	6	$1,560	33,267	2,218	0	3	$1,725	16,633	1,109	
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	2	$1,250	21,379	1,425	0					
Variable Speed Drive Motor Incentive	2	$4,000	745,787	49,719	4					
Agricultural										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings										
Efficient Livestock Waterers										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	15	$15,000	993,339	198,668	41					
Ag, Commercial and Industrial Total	**1,932**	**$50,740**	**4,463,948**	**751,953**	**63**	**237**	**$13,484**	**780,017**	**74,861**	**12**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control							$55,800			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	21	$15,120				21	$15,120			
Expert Energy Services - C&I	42	$30,240				2	$25,146			
Energy Audit Services - Residential *	75	$27,000				53	$15,221			
IV. Educational & Research Programs										
Model Housing Education						3,253	$1,075			
Member Information and Education	3,287	$50,393				3,253	$133,713			
Peak Alert	3,287					3,253				
Living with Energy in Iowa	3,287	$4,615				3,253	$10,015			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	3,287	$18,418				3,253	$18,379			
TOTAL	**17,293**	**$287,244**	**16,637,830**	**1,588,978**	**245**	**23,540**	**$461,129**	**13,957,926**	**1,140,561**	**526**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Prairie Energy Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	12	$2,490	52,820	3,773	4	8	1,533	31,810	2,272	3
Geothermal Heat Pump	15	$27,105	3,983,679	199,184	23	17	$35,988	4,514,836	225,742	29
Air Source Heat Pump	40	$26,000	4,712,616	314,174	41	21	$19,606	2,474,123	164,942	24
Heat Recovery Ventilators	5	$813	62,604	3,130		7	$1,146	87,646	4,382	
Residential Contractor Rebates						29	$7,540			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	900	$2,052	430,269	58,941	54	1,776	$4,210	849,065	116,310	118
Local CFL Rebate Program(s)	550	$2,145	262,942	36,020	33	58	$252	27,728	3,798	4
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	50	$390	34,588	2,109	1	59	$474	47,367	2,888	1
ENERGY STAR LED lighting						22	$163	29,451	1,636	1
CFL Recycling	20	$200								
Exterior Lighting										
High Efficiency Exterior Lighting	5	$20	4,851	2,425	0	57	$2,109	57,070	12,970	1
LED Holiday Lighting	25	$65	23,310	1,943	6	25	$118	23,310	1,943	7
Residential Water Heating (low income included)										
High Efficiency Water Heater	45	$9,750	218,282	14,552	2	37	$24,899	186,414	12,428	2
Heat Pump Water Heater - (Add-On)	2	$780	38,517	3,852	0					
Heat Pump Water Heater - (Integrated)							$2			
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	150	$1,307	500,499	55,611	3	79	$531	263,596	29,288	2
Flow Restrictors - Shower	75	$1,307	474,525	47,453	4	41	$550	259,407	25,941	2
Pipe Insulation	75	$488	133,616	8,908	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	25	$1,625	61,050	5,550	2	48	$3,200	117,216	10,656	4
ENERGY STAR Qualified Dishwasher	40	$1,300	51,770	4,706	4	31	$1,030	40,122	3,647	3
ENERGY STAR Qualified Refrigerator	35	$1,138	55,361	3,691	0	47	$1,564	74,342	4,956	1
ENERGY STAR Qualified Freezer	5	$163	5,578	372	0	21	$694	23,427	1,562	
Appliance Recycling	52	$3,578	448,335	49,951	9	46	$7,200	364,428	41,036	9
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,300	33,300	1,110	0	1	$1,316	33,300	1,110	
Additional Low Income										
Energy Efficiency Kits	30	$975	305,095	33,899	4	14	$844	142,377	15,820	2
Building Shell - Existing Home Only										
Weatherization Rebates	25	$9,201	917,998	31,358	2	26	$7,681	957,076	32,205	2
Residential Total	**2,182**	**$94,192**	**12,811,604**	**882,711**	**193**	**2,470**	**$122,650**	**10,604,111**	**715,532**	**215**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Prairie Energy Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	150	$342	81,518	22,644	9	131	$369	71,193	19,776	9
High Efficiency Interior Lighting	2,012	$29,927	3,015,450	542,829	9	596	$10,099	482,229	74,189	22
Exterior Lighting										
High Efficiency Exterior Lighting						3	$111	3,345	683	
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	14	$2,730	20,746	1,383	1					
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)						6	$1,686	157,043	10,470	1
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	7	$1,820	38,811	2,587	0	4	$3,384	22,178	1,479	
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	2	$1,500	21,379	1,425	0					
Variable Speed Drive Motor Incentive	2	$4,500	745,787	49,719	4	175	$6,682	4,649,096	309,940	42
Agricultural										
Livestock Ventilation Fans										
Circulating Fans — BESS Lab Ratings										
Efficient Livestock Waterers						1	$115	9,537	795	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	16	$16,250	1,059,562	211,912	43					
Ag, Commercial and Industrial Total	**2,203**	**$57,069**	**4,983,252**	**832,500**	**67**	**916**	**$22,446**	**5,394,621**	**417,332**	**74**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control						524	$85,731			291
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	22	$15,840				23	$32,921			
Expert Energy Services - C&I	44	$31,680				4	$5,728			
Energy Audit Services - Residential *	85	$30,600				43	$15,490			
IV. Educational & Research Programs										
Model Housing Education						3,257	$1,921			
Member Information and Education	3,290	$51,905				3,257	$107,705			
Peak Alert	3,290					3,257				
Living with Energy in Iowa	3,290	$4,519				3,257	$9,426			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	3,290	$18,418				3,257	$21,674			
TOTAL	**17,696**	**$304,222**	**17,794,857**	**1,715,211**	**260**	**20,265**	**$425,692**	**15,998,732**	**1,132,864**	**580**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Prairie Energy Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	12	$2,490	52,820	3,773	4	10	$2,007	43,061	3,076	4
Geothermal Heat Pump	15	$27,105	3,983,679	199,184	23	20	$39,505	5,311,572	265,579	34
Air Source Heat Pump	40	$26,000	4,712,616	314,174	41	12	$13,554	1,413,785	94,252	14
Heat Recovery Ventilators	5	$813	62,604	3,130		9	$1,401	112,687	5,634	
Residential Contractor Rebates						33	$11,728			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	900	$2,052	430,269	58,941	54	1,165	$3,943	556,960	76,296	78
Local CFL Rebate Program(s)	550	$2,145	262,942	36,020	33	63	$358	30,119	4,126	4
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	50	$390	34,588	2,109	1	83	$659	77,731	4,740	2
ENERGY STAR LED lighting						80	$329	107,093	5,950	4
CFL Recycling	25	$300				42	$90			
Exterior Lighting										
High Efficiency Exterior Lighting	5	$20	4,851	2,425	0	60	$2,220	60,073	13,653	1
LED Holiday Lighting	25	$65	23,310	1,943	6	27	$181	25,175	2,098	7
Residential Water Heating (low income included)										
High Efficiency Water Heater	41	$8,840	198,185	13,212	2	37	$18,575	182,251	12,150	2
Heat Pump Water Heater - (Add-On)	2	$780	38,517	3,852	0	1	$391	19,259	1,926	0
Heat Pump Water Heater - (Integrated)							$5			
Solar Water Heaters (w/ Electric auxiliary tank)						1	$391	22,444	1,870	0
Flow Restrictors - Faucet	150	$1,307	500,499	55,611	3	78	$539	260,259	28,918	2
Flow Restrictors - Shower	75	$1,307	474,525	47,453	4	39	$542	246,753	24,675	2
Pipe Insulation	75	$488	133,616	8,908	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	25	$1,625	61,050	5,550	2	62	$4,159	151,404	13,764	6
ENERGY STAR Qualified Dishwasher	40	$1,300	51,770	4,706	4	40	$1,343	51,770	4,706	4
ENERGY STAR Qualified Refrigerator	35	$1,138	55,361	3,691	0	51	$1,714	80,669	5,378	1
ENERGY STAR Qualified Freezer	5	$163	5,578	372	0	14	$471	15,618	1,041	0
Appliance Recycling	52	$3,578	448,335	49,951	9	50	$5,531	434,049	48,568	10
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,300	33,300	1,110	0	2	$2,815	66,600	2,220	0
Additional Low Income										
Energy Efficiency Kits	30	$975	305,095	33,899	4	13	$124	132,208	14,690	2
Building Shell - Existing Home Only										
Weatherization Rebates	25	$9,201	917,998	31,358	2	26	$4,498	537,085	18,672	3
Residential Total	**2,183**	**$93,382**	**12,791,508**	**881,371**	**193**	**2,018**	**$117,073**	**9,938,624**	**653,982**	**178**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Prairie Energy Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	2,249	$33,778	3,093,427	580,186	9	1,522	$11,421	1,761,925	271,065	81
Exterior Lighting										
High Efficiency Exterior Lighting						25	$925	143,434	13,544	0
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	16	$3,210	23,710	1,581	1					
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	8	$2,080	44,356	2,957	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	2	$1,500	21,379	1,425	0					
Variable Speed Drive Motor Incentive	2	$4,500	745,787	49,719	4					
Agricultural										
Livestock Ventilation Fans						12	$703	106,960	8,913	2
Circulating Fans --- BESS Lab Ratings										
Efficient Livestock Waterers										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	18	$17,500	1,192,007	238,401	49					
Ag, Commercial and Industrial Total	**2,295**	**$62,568**	**5,120,664**	**874,269**	**63**	**1,559**	**$13,049**	**2,012,318**	**293,523**	**84**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control						739	$179,966			410
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	23	$16,560				24	$29,579			
Expert Energy Services - C&I	46	$33,120				8	$18,059			
Energy Audit Services - Residential *	90	$32,400				49	$18,053			
IV. Educational & Research Programs										
Model Housing Education							$804			
Member Information and Education	3,289	$53,462				3,223	$99,071			
Peak Alert	3,289									
Living with Energy in Iowa	3,289	$4,618				3,223	$8,855			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	3,289	$18,418				3,223	$23,315			
TOTAL	**17,793**	**$314,527**	**17,912,172**	**1,755,640**	**256**	**14,066**	**$507,824**	**11,950,943**	**947,505**	**672**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Prairie Energy Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	12	$2,490	52,820	3,773	4	6	$1,199	24,569	1,755	2
Geothermal Heat Pump	15	$27,105	3,983,679	199,184	23	23	$51,060	6,108,308	305,415	39
Air Source Heat Pump	45	$29,250	5,301,693	353,446	46	7	$11,343	824,708	54,981	8
Heat Recovery Ventilators	5	$813	62,604	3,130		3	$488	37,562	1,878	
Residential Contractor Rebates						35	$13,401			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	850	$1,938	406,365	55,667	51	1,168	$3,085	558,394	76,492	78
Local CFL Rebate Program(s)	550	$2,145	262,942	36,020	33	12	$41	5,737	786	1
ENERGY STAR CFL/LED Fixtures						76	$456	167,033	8,352	3
T8 or better Lighting Fixtures	50	$390	34,588	2,109	1	6	$52	4,151	253	0
ENERGY STAR LED lighting						75	$409	100,400	5,578	3
CFL Recycling	30	$300								
Exterior Lighting										
High Efficiency Exterior Lighting	10	$40	9,701	4,851	0	68	$3,817	225,037	45,772	0
LED Holiday Lighting	30	$78	27,972	2,331	8	11	$73	10,256	855	3
Residential Water Heating (low income included)										
High Efficiency Water Heater	41	$8,840	198,185	13,212	2	33	$15,595	147,586	9,839	1
Heat Pump Water Heater - (Add-On)	3	$1,170	57,776	5,778	1	2	$780	38,517	3,852	0
Heat Pump Water Heater - (Integrated)										
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	150	$1,307	500,499	55,611	3	66	$497	220,220	24,469	1
Flow Restrictors - Shower	75	$1,307	474,525	47,453	4	33	$497	208,791	20,879	2
Pipe Insulation	75	$488	133,616	8,908	2					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	25	$1,625	61,050	5,550	2	38	$2,782	92,796	8,436	3
ENERGY STAR Qualified Dishwasher	40	$1,300	51,770	4,706	4	17	$622	22,002	2,000	2
ENERGY STAR Qualified Refrigerator	35	$1,138	55,361	3,691	0	31	$1,135	49,034	3,269	0
ENERGY STAR Qualified Freezer	5	$163	5,578	372	0	11	$403	12,271	818	0
Appliance Recycling	52	$3,578	448,335	49,951	9	47	$5,022	356,347	40,343	10
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,300	33,300	1,110	0	1	$1,543	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits	30	$975	305,095	33,899	4	25	$904	254,246	28,250	4
Building Shell - Existing Home Only										
Weatherization Rebates	25	$9,201	917,998	31,358	2	19	$5,960	560,667	19,167	2
Residential Total	**2,154**	**$96,941**	**13,385,452**	**922,108**	**197**	**1,813**	**$121,164**	**10,061,929**	**664,548**	**165**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Prairie Energy Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program							$145			
High Efficiency Interior Lighting	2,480	$36,663	3,383,900	636,269	10	6,628	$45,005	7,421,749	1,141,808	239
Exterior Lighting										
High Efficiency Exterior Lighting						49	$1,701	232,636	28,004	3
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	18	$3,510	26,673	1,778	1					
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	9	$2,340	49,900	3,327	0	1	$75	3,463	231	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$1,875	32,068	2,138	0					
Variable Speed Drive Motor Incentive	3	$5,000	1,118,680	74,579	6	4	$19,435	13,553,233	903,549	106
Agricultural										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings						48	$2,805	749,330	62,444	18
Efficient Livestock Waterers										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	19	$18,750	1,258,229	251,646	51					
Ag, Commercial and Industrial Total	**2,532**	**$68,138**	**5,869,451**	**969,736**	**69**	**6,730**	**$69,166**	**21,960,411**	**2,136,035**	**366**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control						30	$10,023			17
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	24	$17,280				30	$31,045			
Expert Energy Services - C&I	48	$34,560				15	$20,245			
Energy Audit Services - Residential *	100	$36,000				50	$17,583			
IV. Educational & Research Programs										
Model Housing Education							$1,743			
Member Information and Education	3,289	$55,066				3,196	$88,694			
Peak Alert	3,289									
Living with Energy in Iowa	3,289	$4,618				3,196	$9,262			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	3,289	$18,418				3,196	$24,057			
TOTAL	**18,014**	**$331,020**	**19,254,903**	**1,891,844**	**266**	**18,256**	**$392,982**	**32,022,340**	**2,800,583**	**547**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Glidden Rural Electric Cooperative and Sac County Rural Electric Cooperative (consolidated January 1, 2010 to form Raccoon Valley Electric Cooperative) were included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Glidden Rural Electric Cooperative and Sac County Rural Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Raccoon Valley Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Raccoon Valley Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Raccoon Valley Electric Cooperative.

Raccoon Valley Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Raccoon Valley Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Raccoon Valley Electric Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Raccoon Valley

Electric Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio (six) prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Raccoon Valley Electric Cooperative also offers energy audits for all member-consumers.

In addition to the rebate opportunities, Raccoon Valley Electric Cooperative is preparing for the future in the implementation of a demand response program that will help us to be both environmentally and fiscally responsible. The proposed program is water heater load control. This optional program will allow member-consumers to receive an incentive in exchange for our ability to curtail load during peak times. We currently have member-consumers signing load control agreements in exchange for a rebate on a purchased water heater in preparation of future load control.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Raccoon Valley Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Raccoon Valley Electric Cooperative publishes a newsletter once a month that includes energy efficiency tips to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Raccoon Valley Electric Cooperative consistently shares the energy efficiency message on our website, on our Facebook page, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime such as geothermal heat pumps. As a member of the National Rural Electric Cooperative Association (NRECA), Raccoon Valley Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Raccoon Valley Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Raccoon Valley Electric Cooperative. Raccoon Valley Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Raccoon Valley Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	46	$8,314	179,938	34,309	12,853	27	$4,828	120,186	27,581	8,584
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	51	$88,613	13,544,509	1,965,282	677,225	81	$118,089	21,511,867	3,279,895	1,075,593
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	124	$77,500	14,609,110	2,882,550	973,941	39	$26,537	4,594,801	1,013,215	306,321
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	15	$2,350	187,812	28,172	9,391	6	$809	75,125	12,520	3,756
Residential Contractor Rebates	Incentive for heat pump installs						1	$1,391			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	5,897	$12,916	2,819,220	1,027,604	386,195	2,694	$5,889	1,287,939	672,582	176,430
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	2,671	$10,018	1,276,944	468,123	174,924	10,720	$32,830	5,124,985	3,094,204	702,052
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						302	$1,812	663,736	33,187	33,187
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	435	$3,265	300,912	48,971	18,348	765	$5,075	651,959	120,924	39,753
ENERGY STAR LED lighting	Rebate for LED lighting.	220	$826	294,505	38,970	16,361	1,153	$3,798	1,543,475	166,367	85,749
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)						54	$1,416	265,954	53,191	53,191
LED Holiday Lighting	Rebate for holiday lighting.	455	$1,139	424,242	99,068	35,354	26	$628	24,242	7,695	2,021
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	339	$66,125	1,569,462	313,431	104,631	186	$81,204	806,493	168,968	53,766
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	22	$8,250	423,687	111,699	42,369		$4			
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.						3	$923	69,331	13,481	5,778
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.							$1			
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	742	$6,219	2,475,802	823,414	275,089	176	$1,006	587,252	289,921	65,251
Flow Restrictors - Shower	Incentive for low-flow shower head.	404	$6,772	2,556,108	765,567	255,611	88	$1,007	556,776	247,385	55,677
Tank Insulation	Incentive for water heater tank insulation.	65	$405	111,111	33,333	11,111					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	28	$1,820	68,376	16,206	6,216	244	$23,607	595,848	167,610	54,168
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	172	$5,375	222,613	53,771	20,238	148	$6,340	191,551	58,361	17,414
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	135	$4,219	213,536	37,857	14,236	216	$15,531	341,658	73,919	22,777
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.						5	$114	14,186	5,911	1,182
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	202	$7,643	225,341	40,011	15,023	65	$3,271	72,510	14,353	4,834
Appliance Recycling	Incentives for appliance recycling.	320	$17,600	2,796,567	934,232	311,411	130	$10,659	1,128,526	429,354	126,275
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	7	$3,000	233,100	19,980	7,770	2	$2,112	66,600	7,770	2,220
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	425	$10,313	4,322,174	1,384,226	480,242	150	$6,680	1,525,473	282,495	169,497
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	286	$101,723	9,092,781	811,626	321,051	106	$26,813	3,645,168	324,623	123,172
Residential Total		**13,061**	**$444,403**	**57,947,849**	**11,938,399**	**4,169,586**	**17,387**	**$382,374**	**45,465,641**	**10,565,510**	**3,188,646**
Percentage of 5 year plan goal - Residential								**86%**	**78%**		**76%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Raccoon Valley Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	90	$197	48,911	36,230	13,586	144	$245	78,257	72,913	21,738
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	122	$915	616,256	203,363	80,033	719	$9,751	1,159,657	295,944	178,409
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	5	$8,688	86,802	13,020	4,340	12	$3,816	208,325	52,081	10,416
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	10	$6,250	261,738	52,348	17,449					
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	34	$5,500	138,561	27,251	9,237	2	$799	6,926	2,309	462
Ag/Commercial & Industrial Appliances											
Commercial ENERGY STAR Refrigerators and Freezers	Rebates for ENERGY STAR refrigerators & freezers.						2	$273	3,596	1,499	300
Ag/Commercial & Industrial Motors											
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.						15	$16,154	5,594,989	619,987	372,999
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		5	$1,250	82,778	49,667	16,556	22	$8,867	70,505,425	23,610,879	4,762,925
Ag, Commercial and Industrial Total		**266**	**$22,800**	**1,235,046**	**381,879**	**141,202**	**916**	**$39,905**	**77,557,176**	**24,655,611**	**5,347,249**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**175%**	**6280%**		**3787%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	326	$81,500								
Industrial Interruptible Price	Industrial Interruptible Price	5	$1,625								
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	15	$2,500					$18,397			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	10	$1,500					$46,438			
Energy Audit Services - Residential *	Energy Audit Services - Residential	115	$11,500				6	$1,851			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	75	$3,750					$3,493			
Member Information and Education	Member Information and Education	10,335	$144,706				10,179	$137,819			
Peak Alert	Peak Alert	10,335	$10,335								
Living with Energy in Iowa	Living with Energy in Iowa magazine.						2,035	$965			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	10,335	$62,010				10,179	$66,673			
TOTAL		**44,878**	**$786,629**	**59,182,896**	**12,320,277**	**4,310,788**	**40,702**	**$697,915**	**123,022,817**	**35,221,121**	**8,535,895**
Percentage of 5 year plan goal achieved								**89%**	**208%**		**198%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Raccoon Valley Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$1,188	26,931	1,924	2	8	1,313	35,820	2,559	3
Geothermal Heat Pump	9	$15,638	2,390,207	119,510	14	22	$30,272	5,842,729	292,136	38
Air Source Heat Pump	24	$15,000	2,827,570	188,505	24	7	$4,773	824,708	54,981	8
Heat Recovery Ventilators	3	$470	37,562	1,878			$6			
Residential Contractor Rebates						1	$222			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	780	$1,708	372,900	51,082	47	757	$2,041	361,904	49,576	50
Local CFL Rebate Program(s)	361	$1,354	172,586	23,642	22	5,304	$15,246	2,535,720	347,359	353
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	58	$436	40,122	2,446	1	157	$947	134,819	8,221	3
ENERGY STAR LED lighting	17	$64	22,757	1,264	1	150	$451	200,799	11,156	7
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	73	$183	68,065	5,672	18		$155			
Residential Water Heating (low income included)										
High Efficiency Water Heater	67	$13,125	311,122	20,741	3	37	$22,024	176,007	11,734	2
Heat Pump Water Heater - (Add-On)	3	$1,125	57,776	5,778	1		$3			
Heat Pump Water Heater - (Integrated)						1	$303	23,110	1,926	0
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	147	$1,232	490,489	54,499	3	78	$405	260,259	28,918	2
Flow Restrictors - Shower	80	$1,341	506,160	50,616	4	39	$405	246,753	24,675	2
Tank Insulation	13	$81	22,222	2,222	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	3	$195	7,326	666	0	54	$8,769	131,868	11,988	5
ENERGY STAR Qualified Dishwasher	22	$688	28,474	2,589	2	39	$2,440	50,476	4,589	4
ENERGY STAR Qualified Refrigerator	18	$563	28,472	1,898	0	53	$7,202	83,833	5,589	1
ENERGY STAR Qualified Dehumidifier						5	$74	14,186	1,182	0
ENERGY STAR Qualified Freezer	27	$844	30,120	2,008	0	11	$1,095	12,271	818	0
Appliance Recycling	64	$3,520	559,313	62,282	11	34	$1,995	286,130	32,065	7
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$100	33,300	1,110	0		$4			
Additional Low Income										
Energy Efficiency Kits	75	$2,344	762,737	84,749	10		$14			
Building Shell - Existing Home Only										
Weatherization Rebates	30	$10,594	940,692	33,247	2	6	$2,644	190,343	6,345	1
Residential Total	**1,882**	**$71,793**	**9,736,901**	**718,328**	**164**	**6,763**	**$102,803**	**11,411,736**	**895,814**	**485**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Raccoon Valley Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	12	$26	6,521	1,812	1					
High Efficiency Interior Lighting	12	$90	60,615	7,872	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0	12	$3,816	208,325	10,416	2
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,250	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	6	$1,000	24,942	1,663	0	2	$799	6,926	462	0
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers						2	$273	3,596	300	0
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$250	16,556	3,311	1	1	$3,820	70,036,200	4,669,080	533
Ag, Commercial and Industrial Total	**34**	**$4,354**	**178,342**	**19,015**	**2**	**17**	**$8,708**	**70,255,048**	**4,680,258**	**535**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	56	$14,000			28					
Industrial Interruptible Price	1	$325								
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$500								
Expert Energy Services - C&I	2	$300					$13,929			
Energy Audit Services - Residential *	17	$1,700								
IV. Educational & Research Programs										
Model Housing Education	15	$750					$896			
Member Information and Education	2,063	$30,945				2,035	$27,850			
Peak Alert	2,063	$2,063								
Living with Energy in Iowa						2,035	$965			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,063	$12,378				2,035	$17,282			
TOTAL	**8,199**	**$139,108**	**9,915,244**	**737,343**	**194**	**12,885**	**$172,433**	**81,666,783**	**5,576,072**	**1,019**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Raccoon Valley Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$1,188	26,931	1,924	2	7	$1,212	29,308	2,093	2
Geothermal Heat Pump	10	$17,375	2,655,786	132,789	15	12	$20,682	3,186,943	159,347	21
Air Source Heat Pump	24	$15,000	2,827,570	188,505	24	13	$9,777	1,531,600	102,107	15
Heat Recovery Ventilators	3	$470	37,562	1,878		2	$291	25,042	1,252	
Residential Contractor Rebates							$1,050			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	979	$2,144	468,037	64,115	59	674	$1,438	322,224	44,140	45
Local CFL Rebate Program(s)	448	$1,680	214,178	29,340	27	4,819	$15,605	2,303,853	315,596	321
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	73	$548	50,498	3,079	1	150	$942	109,661	6,686	2
ENERGY STAR LED lighting	30	$112	40,160	2,231	1		$5			
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	82	$205	76,457	6,371	21	21	$458	19,580	1,632	6
Residential Water Heating (low income included)										
High Efficiency Water Heater	68	$13,250	314,585	20,972	3	49	$27,612	200,916	13,394	2
Heat Pump Water Heater - (Add-On)	3	$1,125	57,776	5,778	1					
Heat Pump Water Heater - (Integrated)							$15			
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	148	$1,240	493,826	54,870	3	98	$584	326,993	36,333	2
Flow Restrictors - Shower	81	$1,358	512,487	51,249	4	49	$584	310,023	31,002	3
Tank Insulation	13	$81	22,222	2,222	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$325	12,210	1,110	0	51	$6,755	124,542	11,322	5
ENERGY STAR Qualified Dishwasher	29	$907	37,534	3,412	3	33	$1,736	42,711	3,883	3
ENERGY STAR Qualified Refrigerator	22	$688	34,799	2,320	0	49	$5,058	77,506	5,167	1
ENERGY STAR Qualified Dehumidifier							$40			
ENERGY STAR Qualified Freezer	33	$1,031	36,813	2,454	0	13	$1,019	14,502	967	
Appliance Recycling	64	$3,520	559,313	62,282	11	35	$3,043	276,852	31,169	8
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$100	33,300	1,110	0	1	$1,085	33,300	1,110	
Additional Low Income										
Energy Efficiency Kits	80	$2,500	813,586	90,398	10		$100			
Building Shell - Existing Home Only										
Weatherization Rebates	46	$16,142	1,405,210	49,676	3	32	$6,560	1,228,371	41,248	3
Residential Total	**2,249**	**$80,989**	**10,730,839**	**778,084**	**188**	**6,108**	**$105,651**	**10,163,927**	**808,448**	**439**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Raccoon Valley Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	15	$33	8,152	2,264	1	51	$90	27,716	7,699	3
High Efficiency Interior Lighting	20	$150	101,026	13,120	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,250	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	7	$1,125	28,405	1,894	0					
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$250	16,556	3,311	1					
Ag, Commercial and Industrial Total	**46**	**$4,545**	**223,846**	**24,947**	**2**	**51**	**$90**	**27,716**	**7,699**	**3**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	60	$15,000			30					
Industrial Interruptible Price	1	$325								
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$500								
Expert Energy Services - C&I	2	$300					$14,112			
Energy Audit Services - Residential *	20	$2,000				5	$1,806			
IV. Educational & Research Programs										
Model Housing Education	15	$750					$640			
Member Information and Education	2,065	$20,656				2,031	$29,199			
Peak Alert	2,065	$2,065								
Living with Energy in Iowa										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,065	$12,390				2,031	$11,442			
TOTAL	**8,591**	**$139,521**	**10,954,685**	**803,032**	**221**	**10,226**	**$162,940**	**10,191,643**	**816,147**	**442**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Raccoon Valley Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,813	32,556	2,325	3	3	375	10,210	729	1
Geothermal Heat Pump	10	$17,375	2,655,786	132,789	15	13	$20,703	3,452,522	172,626	22
Air Source Heat Pump	25	$15,625	2,945,385	196,359	26	7	$4,184	824,708	54,981	8
Heat Recovery Ventilators	3	$470	37,562	1,878		4	$505	50,083	2,504	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,178	$2,580	563,175	77,147	71	1,263	$2,410	603,811	82,714	84
Local CFL Rebate Program(s)	534	$2,003	255,293	34,972	32	264	$792	126,212	17,289	18
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	87	$653	60,182	3,670	1	151	$914	113,739	6,935	2
ENERGY STAR LED lighting	44	$165	58,901	3,272	2	18	$83	24,096	1,339	1
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	91	$228	84,848	7,071	23	5	$13	4,662	389	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	68	$13,250	314,585	20,972	3	35	$8,324	154,512	10,301	2
Heat Pump Water Heater - (Add-On)	5	$1,875	96,293	9,629	1					
Heat Pump Water Heater - (Integrated)							$2			
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	149	$1,249	497,162	55,240	3		$11			
Flow Restrictors - Shower	81	$1,358	512,487	51,249	4		$11			
Tank Insulation	13	$81	22,222	2,222	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	6	$390	14,652	1,332	0	43	$2,201	105,006	9,546	4
ENERGY STAR Qualified Dishwasher	35	$1,094	45,299	4,118	3	33	$838	42,711	3,883	3
ENERGY STAR Qualified Refrigerator	27	$844	42,707	2,847	0	43	$1,096	68,015	4,534	
ENERGY STAR Qualified Dehumidifier										
ENERGY STAR Qualified Freezer	41	$1,899	45,738	3,049	0	17	$430	18,964	1,264	
Appliance Recycling	64	$3,520	559,313	62,282	11	28	$2,532	256,347	28,618	6
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$100	33,300	1,110	0	1	$1,010	33,300	1,110	
Additional Low Income										
Energy Efficiency Kits	85	$2,656	864,435	96,048	11		$12			
Building Shell - Existing Home Only										
Weatherization Rebates	56	$20,135	1,820,472	64,148	3	12	$3,698	472,510	16,205	1
Residential Total	**2,611**	**$89,361**	**11,562,355**	**833,731**	**212**	**1,940**	**$50,144**	**6,361,408**	**414,967**	**153**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Raccoon Valley Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	18	$39	9,782	2,717	1	93	$155	50,541	14,039	6
High Efficiency Interior Lighting	25	$188	126,282	16,400	0	95	$986	133,073	20,473	10
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,250	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	7	$1,125	28,405	1,894	0					
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive						3	$1,860	782,850	52,190	14
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$250	16,556	3,311	1	2	$3,614	388,944	77,789	13
Ag, Commercial and Industrial Total	**54**	**$4,589**	**250,733**	**28,680**	**3**	**193**	**$6,615**	**1,355,408**	**164,491**	**43**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	65	$16,250			33					
Industrial Interruptible Price	1	$325								
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$500					$6,361			
Expert Energy Services - C&I	2	$300					$6,361			
Energy Audit Services - Residential *	23	$2,300					$9			
IV. Educational & Research Programs										
Model Housing Education	15	$750					$403			
Member Information and Education	2,067	$31,005				2,038	$18,328			
Peak Alert	2,067	$2,067								
Living with Energy in Iowa										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,067	$12,402				2,038	$11,681			
TOTAL	**8,975**	**$159,849**	**11,813,087**	**862,411**	**247**	**6,209**	**$99,902**	**7,716,816**	**579,458**	**196**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Raccoon Valley Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	12	$2,063	46,760	3,340	4	3	$651	14,359	1,026	1
Geothermal Heat Pump	11	$19,113	2,921,365	146,068	17	16	$24,279	4,249,258	212,463	27
Air Source Heat Pump	25	$15,625	2,945,385	196,359	26	9	$5,826	1,060,339	70,689	10
Heat Recovery Ventilators	3	$470	37,562	1,878			$7			
Residential Contractor Rebates							$119			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,381	$3,024	660,224	90,442	83					
Local CFL Rebate Program(s)	621	$2,329	296,886	40,669	37	326	$1,171	155,853	21,350	22
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures	101	$758	69,867	4,260	1	223	$1,687	235,523	14,361	5
ENERGY STAR LED lighting	58	$218	77,642	4,313	2	448	$1,698	599,720	33,318	20
Exterior Lighting										
High Efficiency Exterior Lighting										
LED Holiday Lighting	100	$251	93,240	7,770	25		$2			
Residential Water Heating (low income included)										
High Efficiency Water Heater	68	$13,250	314,585	20,972	3	27	$10,342	112,238	7,483	1
Heat Pump Water Heater - (Add-On)	5	$1,875	96,293	9,629	1		$1			
Heat Pump Water Heater - (Integrated)							$3			
Solar Water Heaters (w/ Electric auxiliary tank)							$1			
Flow Restrictors - Faucet	149	$1,249	497,162	55,240	3		$6			
Flow Restrictors - Shower	81	$1,358	512,487	51,249	4		$7			
Tank Insulation	13	$81	22,222	2,222	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	6	$390	14,652	1,332	0	56	$3,560	136,752	12,432	5
ENERGY STAR Qualified Dishwasher	40	$1,250	51,770	4,706	4	27	$862	34,945	3,177	3
ENERGY STAR Qualified Refrigerator	32	$1,000	50,616	3,374	0	40	$1,275	63,270	4,218	0
ENERGY STAR Qualified Dehumidifier										
ENERGY STAR Qualified Freezer	47	$2,181	52,431	3,495	0	11	$350	12,271	818	0
Appliance Recycling	64	$3,520	559,313	62,282	11	23	$2,027	216,090	24,078	5
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,350	66,600	2,220	0		$13			
Additional Low Income										
Energy Efficiency Kits	90	$2,813	915,284	101,698	12	100	$5,103	1,016,982	112,998	14
Building Shell - Existing Home Only										
Weatherization Rebates	70	$25,167	2,275,633	80,265	4	20	$6,142	592,990	19,918	2
Residential Total	**2,979**	**$99,333**	**12,577,980**	**893,786**	**237**	**1,329**	**$65,132**	**8,500,589**	**538,328**	**116**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Raccoon Valley Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	21	$46	11,413	3,170	1					
High Efficiency Interior Lighting	30	$225	151,538	19,680	0	470	$2,987	497,828	76,589	25
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,250	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	7	$1,125	28,405	1,894	0					
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive						4	$9,979	2,139,109	142,607	59
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$250	16,556	3,311	1	19	$1,433	80,281	16,056	7
Ag, Commercial and Industrial Total	**62**	**$4,633**	**277,619**	**32,413**	**3**	**493**	**$14,399**	**2,717,217**	**235,252**	**92**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	70	$17,500			35					
Industrial Interruptible Price	1	$325								
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$500					$7,094			
Expert Energy Services - C&I	2	$300					$7,094			
Energy Audit Services - Residential *	26	$2,600				1	$36			
IV. Educational & Research Programs										
Model Housing Education	15	$750					$388			
Member Information and Education	2,069	$31,035				2,040	$31,826			
Peak Alert	2,069	$2,069								
Living with Energy in Iowa										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,069	$12,414				2,040	$12,800			
TOTAL	**9,365**	**$171,459**	**12,855,600**	**926,200**	**275**	**5,903**	**$138,769**	**11,217,806**	**773,580**	**208**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Raccoon Valley Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	12	$2,063	46,760	3,340	4	6	$1,277	30,489	2,178	3
Geothermal Heat Pump	11	$19,113	2,921,365	146,068	17	18	$22,153	4,780,415	239,021	31
Air Source Heat Pump	26	$16,250	3,063,200	204,213	27	3	$1,977	353,446	23,563	3
Heat Recovery Ventilators	3	$470	37,562	1,878						
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,579	$3,458	754,884	103,409	95					
Local CFL Rebate Program(s)	707	$2,652	338,000	46,301	42	7	$16	3,347	458	0
ENERGY STAR CFL/LED Fixtures						302	$1,812	663,736	33,187	13
T8 or better Lighting Fixtures	116	$871	80,243	4,893	1	84	$585	58,216	3,550	1
ENERGY STAR LED lighting	71	$267	95,045	5,280	3	537	$1,561	718,860	39,937	24
Exterior Lighting										
High Efficiency Exterior Lighting						54	$1,416	265,954	53,191	
LED Holiday Lighting	109	$273	101,632	8,469	27					
Residential Water Heating (low income included)										
High Efficiency Water Heater	68	$13,250	314,585	20,972	3	38	$12,902	162,820	10,855	2
Heat Pump Water Heater - (Add-On)	6	$2,250	115,551	11,555	1					
Heat Pump Water Heater - (Integrated)						2	$600	46,220	3,852	0
Solar Water Heaters (w/ Electric auxiliary tank)										
Flow Restrictors - Faucet	149	$1,249	497,162	55,240	3					
Flow Restrictors - Shower	81	$1,358	512,487	51,249	4					
Tank Insulation	13	$81	22,222	2,222	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	8	$520	19,536	1,776	1	40	$2,322	97,680	8,880	4
ENERGY STAR Qualified Dishwasher	46	$1,437	59,536	5,412	4	16	$464	20,708	1,883	2
ENERGY STAR Qualified Refrigerator	36	$1,125	56,943	3,796	0	31	$900	49,034	3,269	0
ENERGY STAR Qualified Dehumidifier										
ENERGY STAR Qualified Freezer	54	$1,688	60,240	4,016	1	13	$377	14,502	967	0
Appliance Recycling	64	$3,520	559,313	62,282	11	10	$1,062	93,107	10,345	2
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,350	66,600	2,220	0					
Additional Low Income										
Energy Efficiency Kits	95		966,133	107,348	12	50	$1,451	508,491	56,499	7
Building Shell - Existing Home Only										
Weatherization Rebates	84	$29,686	2,650,774	93,715	5	36	$7,769	1,160,955	39,456	4
Residential Total	**3,340**	**$102,927**	**13,339,774**	**945,657**	**261**	**1,247**	**$58,644**	**9,027,981**	**531,089**	**96**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Raccoon Valley Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	24	$53	13,043	3,623	1					
High Efficiency Interior Lighting	35	$263	176,795	22,960	0	154	$5,778	528,757	81,347	33
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,250	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	7	$1,125	28,405	1,894	0					
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive						8	$4,315	2,673,031	178,202	32
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$250	16,556	3,311	1					
Ag, Commercial and Industrial Total	**70**	**$4,678**	**304,506**	**36,146**	**3**	**162**	**$10,093**	**3,201,787**	**259,549**	**65**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Water Heater Load Control	75	$18,750			38					
Industrial Interruptible Price	1	$325								
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$500					$4,942			
Expert Energy Services - C&I	2	$300					$4,942			
Energy Audit Services - Residential *	29	$2,900								
IV. Educational & Research Programs										
Model Housing Education	15	$750					$1,166			
Member Information and Education	2,071	$31,065				2,035	$30,617			
Peak Alert	2,071	$2,071								
Living with Energy in Iowa										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,071	$12,426				2,035	$13,468			
TOTAL	**9,748**	**$176,692**	**13,644,280**	**981,803**	**301**	**5,479**	**$123,872**	**12,229,768**	**790,638**	**161**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

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In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Southern Iowa Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Southern Iowa Electric Cooperative and other cooperatives with Iowa members. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group (Northeast Missouri Electric Power Cooperative) and were completed by a qualified independent third-party consultant.

Southern Iowa Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Southern Iowa Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Southern Iowa Electric Cooperative.

Southern Iowa Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Southern Iowa Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, and water heaters. In addition, our residential energy audit program identifies areas for improvement within the home and offers a number of direct install measures at the time of audit including a low flow dual spray faucet aerator, pipe and water heater wrap kits, weather stripping, 6 CFL's, an LED night light, and demonstrations on caulking and sealing. Upon completion of the energy audit, member-consumers are also eligible for a weatherization rebate program.

Southern Iowa Electric Cooperative also offers prescriptive lighting incentives for small commercial member-consumers. For the large industrial member-consumers of Southern Iowa Electric Cooperative, we offer an energy audit program designed to highlight areas where large customers can reduce their energy use and costs. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom audit program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Southern Iowa Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Southern Iowa Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Southern Iowa Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to "get the facts" and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime (for example, geothermal heat pumps typically have a high up-front capital cost, but have lower operating costs). As a member of the National Rural Electric Cooperative Association (NRECA), Southern Iowa Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

The programs that we offer were reviewed or designed during the assessment of potential process in which Southern Iowa Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program.

During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Southern Iowa Electric Cooperative. Southern Iowa Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Southern Iowa Electric Cooperative, Inc.	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	150	$37,500	620,435	132,950	44,317	97	$30,348	437,545	91,904	31,254
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	50	$3,194	44,456	14,819	4,940	19	$2,340	16,892	5,827	1,877
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	68	$236,300	18,059,346	2,549,555	902,967	82	$261,422	21,777,445	3,253,338	1,088,872
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	27	$32,941	3,181,017	494,824	212,067	36	$18,762	4,241,355	911,104	282,756
Residential Lighting (low income included)											
Interior Lighting											
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	1,750	$47,252	836,635	409,313	114,608	11,346	$16,424	5,424,261	3,116,210	743,049
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	255	$60,563	255,311	232,101	58,025	177	$58,991	1,171,354	106,487	106,487
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	350	$125,532	1,316,183	263,237	87,746	276	$63,196	909,406	182,490	60,628
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	70	$4,134	233,566	77,855	25,952	20	$40	66,733	12,977	7,415
Flow Restrictors - Shower	Incentive for low-flow shower head.	70	$9,569	442,890	132,867	44,289	60	$975	379,620	160,709	37,963
Tank Insulation	Incentive for water heater tank insulation.	70	$5,367	119,658	35,897	11,966	60	$1,951	102,564	43,421	10,257
Pipe Insulation	Incentive for water pipe insulation.	70	$2,155	124,709	24,942	8,314	70	$264	124,709	31,355	8,314
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	90	$13,779	219,780	79,920	19,980	141	$24,408	253,076	91,866	23,007
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	45	$3,496	58,242	21,179	5,295	71	$8,392	91,892	32,709	8,354
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	72	$10,800	732,227	325,434	81,359					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	120	$91,454	5,324,671	619,481	183,550	46	$21,284	1,246,785	127,569	44,591
Residential Total		**3,257**	**$684,035**	**31,569,122**	**5,414,373**	**1,805,373**	**12,501**	**$508,798**	**36,243,639**	**8,167,966**	**2,454,824**
Percentage of 5 year plan goal - Residential								**74%**	**115%**		**136%**

Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.										
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	19	$10,009	21,976	10,207	4,000	184	$12,210	753,979	388,953	94,301
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	3	$4,412	52,081	8,680	2,604					
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	4	$5,104	288,711	48,119	19,247					
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	2	$5,090	294,206	68,648	19,614					
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	2	$466	10,629	3,100	886					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	6	$31,052	1,798,200	399,600	119,880					
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	2	$2,127	110,723	25,835	7,382					
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	2	$7,328	444,087	91,430	26,123					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		2	$23,853	888,000	310,800	88,800					
Ag, Commercial and Industrial Total		**42**	**$89,441**	**3,908,612**	**966,419**	**288,535**	**184**	**$12,210**	**753,979**	**388,953**	**94,301**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**14%**	**19%**		**33%**

II. Demand Response Programs											
Residential Time-of-Day Price	Residential time of day price.	20	$4,500								
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	5	$1,000				1	$1,176			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	15	$45,000				3	$859			
Energy Audit Services - Residential *	Energy Audit Services - Residential	148	$14,800				70	$28,767			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	5,000	$50,000				19,171	$98,847			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	21,000	$69,500				19,171	$95,504			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	21,000	$73,148				19,171	$48,333			
TOTAL		**50,487**	**$1,031,423**	**35,477,735**	**6,380,792**	**2,093,908**	**70,272**	**$794,494**	**36,997,618**	**8,556,919**	**2,549,125**
Percentage of 5 year plan goal achieved								**77%**	**104%**		**122%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Southern Iowa Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	30	$7,500	124,087	8,863	9	20	6,734	84,475	6,034	6
ENERGY STAR Qualified Room Air Conditioner	10	$639	8,891	988	1	4	$491	3,556	395	0
Geothermal Heat Pump	12	$41,700	3,186,943	159,347	18	17	$69,233	4,514,836	225,742	29
Air Source Heat Pump	3	$7,314	353,446	23,563	3	7	$3,390	824,708	54,981	8
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	250	$7,040	119,519	16,373	15	5,295	$12,737	2,531,418	346,770	353
Exterior Lighting										
High Efficiency Exterior Lighting	85	$20,188	85,104	19,342						
Residential Water Heating (low income included)										
High Efficiency Water Heater	70	$25,106	263,237	17,549	2	57	$13,503	182,384	12,159	2
Flow Restrictors - Faucet	14	$827	46,713	5,190	0					
Flow Restrictors - Shower	14	$1,914	88,578	8,858	1	29	$510	183,483	18,348	2
Tank Insulation	14	$1,073	23,932	2,393	0	29	$1,021	49,573	4,957	0
Pipe Insulation	14	$431	24,942	1,663	0	29	$119	51,665	3,444	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	30	$4,593	73,260	6,660	2	44	$8,487	78,974	7,179	3
ENERGY STAR Qualified Dishwasher	15	$1,165	19,414	1,765	1	21	$2,766	27,179	2,471	2
Additional Low Income										
Energy Efficiency Kits	24	$3,600	244,076	27,120	3					
Building Shell - Existing Home Only										
Weatherization Rebates	30	$22,871	1,331,168	45,887	3	13	$5,747	210,822	7,937	1
Residential Total	**615**	**$145,960**	**5,993,308**	**345,561**	**59**	**5,565**	**$124,739**	**8,743,074**	**690,417**	**407**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting						80	$6,252	450,598	58,519	1
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater										
Agricultural										
Dairy Pre-coolers Incentive										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)										
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**0**	**$0**	**0**	**0**	**0**	**80**	**$6,252**	**450,598**	**58,519**	**1**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Residential Time-of-Day Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200								
Expert Energy Services - C&I	5	$15,000								
Energy Audit Services - Residential *	28	$2,800				29	$11,598			
IV. Educational & Research Programs										
Member Information and Education	1,000	$10,000				3,819	$21,143			
Living with Energy in Iowa	4,400	$10,500				3,819	$20,497			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,400	$17,716				3,819	$9,644			
TOTAL	**10,449**	**$202,176**	**5,993,308**	**345,561**	**59**	**17,131**	**$193,873**	**9,193,672**	**748,936**	**408**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Southern Iowa Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	30	$7,500	124,087	8,863	9	19	$5,553	77,949	5,568	5
ENERGY STAR Qualified Room Air Conditioner	10	$639	8,891	988	1	4	$468	3,556	395	
Geothermal Heat Pump	12	$41,700	3,186,943	159,347	18	17	$52,109	4,514,836	225,742	29
Air Source Heat Pump	3	$7,314	353,446	23,563	3	9	$4,216	1,060,339	70,689	10
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	750	$21,119	358,558	49,118	45	3,520	$2,669	1,682,831	230,525	234
Exterior Lighting										
High Efficiency Exterior Lighting	85	$20,188	85,104	19,342						
Residential Water Heating (low income included)										
High Efficiency Water Heater	70	$25,106	263,237	17,549	2	53	$11,574	176,390	11,760	1
Flow Restrictors - Faucet	14	$827	46,713	5,190	0					
Flow Restrictors - Shower	14	$1,914	88,578	8,858	1	21	$315	132,867	13,287	1
Tank Insulation	14	$1,073	23,932	2,393	0	21	$630	35,897	3,590	
Pipe Insulation	14	$431	24,942	1,663	0	21	$74	37,413	2,494	
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	30	$4,593	73,260	6,660	2	52	$8,823	93,333	8,485	3
ENERGY STAR Qualified Dishwasher	15	$1,165	19,414	1,765	1	23	$2,761	29,768	2,706	2
Additional Low Income										
Energy Efficiency Kits	24	$3,600	244,076	27,120	3					
Building Shell - Existing Home Only										
Weatherization Rebates	30	$22,871	1,331,168	45,887	3	14	$6,166	333,267	12,322	1
Residential Total	**1,115**	**$160,039**	**6,232,347**	**378,306**	**89**	**3,774**	**$95,358**	**8,178,446**	**587,563**	**286**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	4	$1,463	3,778	817	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	2	$10,351	599,400	39,960	8					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12					
Ag, Commercial and Industrial Total	**13**	**$33,992**	**1,566,538**	**117,859**	**28**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Residential Time-of-Day Price	10	$2,250								
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200								
Expert Energy Services - C&I	5	$15,000				3	$859			
Energy Audit Services - Residential *	40	$4,000				21	$9,268			
IV. Educational & Research Programs										
Member Information and Education	1,000	$10,000				3,816	$20,546			
Living with Energy in Iowa	4,400	$10,500				3,816	$20,178			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,400	$17,716				3,816	$9,172			
TOTAL	**10,984**	**$253,697**	**7,798,885**	**496,164**	**117**	**15,246**	**$155,380**	**8,178,446**	**587,563**	**286**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Southern Iowa Electric Cooperative, Inc.	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	30	$7,500	124,087	8,863	9	21	6,320	92,619	6,616	7
ENERGY STAR Qualified Room Air Conditioner	10	$639	8,891	988	1	4	$417	3,556	395	
Geothermal Heat Pump	12	$41,700	3,186,943	159,347	18	12	$39,650	3,186,943	159,347	21
Air Source Heat Pump	3	$7,314	353,446	23,563	3	9	$5,210	1,060,339	70,689	10
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	500	$12,729	239,039	32,745	30	1,966	$100	939,899	128,753	131
Exterior Lighting										
High Efficiency Exterior Lighting	85	$20,188	85,104	19,342						
Residential Water Heating (low income included)										
High Efficiency Water Heater	70	$25,106	263,237	17,549	2	63	$13,023	198,884	13,259	2
Flow Restrictors - Faucet	14	$827	46,713	5,190	0	5	$10	16,683	1,854	
Flow Restrictors - Shower	14	$1,914	88,578	8,858	1	5	$75	31,635	3,164	
Tank Insulation	14	$1,073	23,932	2,393	0	5	$150	8,547	855	
Pipe Insulation	14	$431	24,942	1,663	0	5	$18	8,908	594	
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	30	$4,593	73,260	6,660	2	45	$7,098	80,769	7,343	3
ENERGY STAR Qualified Dishwasher	15	$1,165	19,414	1,765	1	27	$2,865	34,945	3,177	3
Additional Low Income										
Energy Efficiency Kits	24	$3,600	244,076	27,120	3					
Building Shell - Existing Home Only										
Weatherization Rebates	30	$22,871	1,331,168	45,887	3	2	$1,216	27,522	1,069	
Residential Total	**865**	**$151,649**	**6,112,828**	**361,933**	**74**	**2,169**	**$76,152**	**5,691,249**	**397,115**	**177**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	7	$2,900	7,059	1,443	0	48	$2,175	200,817	26,458	1
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	2	$2,942	34,721	1,736	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	4	$20,701	1,198,800	79,920	16					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12					
Ag, Commercial and Industrial Total	**19**	**$47,251**	**2,186,579**	**159,313**	**36**	**48**	**$2,175**	**200,817**	**26,458**	**1**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price	10	$2,250								
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200				1	$1,176			
Expert Energy Services - C&I	5	$15,000								
Energy Audit Services - Residential *	50	$5,000				5	$2,389			
IV. Educational & Research Programs										
Member Information and Education	1,000	$10,000				3,845	$19,000			
Living with Energy in Iowa	4,400	$10,500				3,845	$19,025			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,400	$17,716				3,845	$9,304			
TOTAL	**10,750**	**$259,566**	**8,299,407**	**521,246**	**111**	**13,758**	**$129,220**	**5,892,066**	**423,573**	**178**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Southern Iowa Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	30	$7,500	124,087	8,863	9	19	$6,050	92,090	6,578	7
ENERGY STAR Qualified Room Air Conditioner	10	$639	8,891	988	1	4	$539	3,556	395	0
Geothermal Heat Pump	16	$55,600	4,249,258	212,463	25	20	$57,088	5,311,572	265,579	34
Air Source Heat Pump	9	$5,500	1,060,339	70,689	9	7	$3,990	824,708	54,981	8
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	250	$6,365	119,519	16,373	15	565	$918	270,114	37,002	38
Exterior Lighting										
High Efficiency Exterior Lighting										
Residential Water Heating (low income included)										
High Efficiency Water Heater	70	$25,106	263,237	17,549	2	50	$12,480	171,428	11,429	2
Flow Restrictors - Faucet	14	$827	46,713	5,190	0	5	$10	16,683	1,854	0
Flow Restrictors - Shower	14	$1,914	88,578	8,858	1	5	$75	31,635	3,164	0
Tank Insulation	14	$1,073	23,932	2,393	0	5	$150	8,547	855	0
Pipe Insulation	14	$431	24,942	1,663	0	5	$18	8,908	594	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer										
ENERGY STAR Qualified Dishwasher										
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	15	$11,421	665,584	22,944	1	8	$4,056	354,745	12,128	1
Residential Total	**456**	**$116,376**	**6,675,079**	**367,973**	**63**	**693**	**$85,374**	**7,093,986**	**394,556**	**90**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	4	$2,823	5,570	870		46	$2,995	84,249	7,659	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)										
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**5**	**$4,099**	**77,748**	**5,682**	**1**	**46**	**$2,995**	**84,249**	**7,659**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Residential Time-of-Day Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200								
Expert Energy Services - C&I										
Energy Audit Services - Residential *	15	$1,500				5	$2,513			
IV. Educational & Research Programs										
Member Information and Education	1,000	$10,000				3,844	$16,680			
Living with Energy in Iowa	3,900	$19,000				3,844	$17,625			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	3,900	$10,000				3,844	$9,679			
TOTAL	**9,277**	**$161,175**	**6,752,827**	**373,655**	**64**	**12,276**	**$134,866**	**7,178,235**	**402,215**	**90**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Southern Iowa Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	30	$7,500	124,087	8,863	9	18	$5,691	90,412	6,458	7
ENERGY STAR Qualified Room Air Conditioner	10	$639	8,891	988	1	3	$425	2,667	296	0
Geothermal Heat Pump	16	$55,600	4,249,258	212,463	25	16	$43,342	4,249,258	212,463	27
Air Source Heat Pump	9	$5,500	1,060,339	70,689	9	4	$1,956	471,262	31,417	5
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)										
Exterior Lighting										
High Efficiency Exterior Lighting						177	$58,991	1,171,354	106,487	4
Residential Water Heating (low income included)										
High Efficiency Water Heater	70	$25,106	263,237	17,549	2	53	$12,616	180,320	12,021	2
Flow Restrictors - Faucet	14	$827	46,713	5,190	0	10	$20	33,367	3,707	0
Flow Restrictors - Shower	14	$1,914	88,578	8,858	1					
Tank Insulation	14	$1,073	23,932	2,393	0					
Pipe Insulation	14	$431	24,942	1,663	0	10	$36	17,816	1,188	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer										
ENERGY STAR Qualified Dishwasher										
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	15	$11,421	665,584	22,944	1	9	$4,099	320,429	11,136	1
Residential Total	**206**	**$110,011**	**6,555,560**	**351,600**	**48**	**300**	**$127,176**	**6,536,883**	**385,173**	**46**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	4	$2,823	5,570	870		10	$788	18,315	1,665	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive										
Livestock Ventilation Fans										
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)										
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**5**	**$4,099**	**77,748**	**5,682**	**1**	**10**	**$788**	**18,315**	**1,665**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Residential Time-of-Day Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200								
Expert Energy Services - C&I										
Energy Audit Services - Residential *	15	$1,500				10	$2,999			
IV. Educational & Research Programs										
Member Information and Education	1,000	$10,000				3,847	$21,478			
Living with Energy in Iowa	3,900	$19,000				3,847	$18,180			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	3,900	$10,000				3,847	$10,534			
TOTAL	**9,027**	**$154,810**	**6,633,308**	**357,282**	**49**	**11,861**	**$181,155**	**6,555,198**	**386,838**	**46**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Southwest Iowa Rural Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Southwest Iowa Rural Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Southwest Iowa Rural Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Southwest Iowa Rural Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Southwest Iowa Rural Electric Cooperative.

Southwest Iowa Rural Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Southwest Iowa Rural Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Southwest Iowa Rural Electric Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of

Southwest Iowa Rural Electric Cooperative, we offer a custom rebate program. Due to the fact we have only one large industrial member-consumer in our portfolio, prescriptive rebates are a challenge to design. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Southwest Iowa Rural Electric Cooperative also offers energy audits for all member-consumers.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Southwest Iowa Rural Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Southwest Iowa Rural Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Southwest Iowa Rural Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As an example, CFL bulbs can save $10 to $12 a year even after the higher cost of CFL’s are considered. As a member of the National Rural Electric Cooperative Association (NRECA), Southwest Iowa Rural Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Southwest Iowa Rural Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Southwest Iowa Rural Electric Cooperative. Southwest Iowa Rural Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Southwest Iowa Rural Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	35	$4,546	121,507	26,037	8,679	52	$8,539	200,182	50,902	14,299
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	5	$162	4,414	1,471	490	24	$853	21,186	9,024	2,354
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	195	$358,528	51,067,663	7,884,285	2,553,384	150	$217,307	39,025,890	6,288,972	1,951,295
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	215	$198,258	24,923,110	5,541,508	1,661,540	122	$100,137	13,626,849	2,842,729	908,456
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	10	$1,624	124,317	18,648	6,216	13	$2,350	161,612	23,001	8,081
Residential Contractor Rebates	Incentive for heat pump installs	512	$102,400				228	$56,658			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	2,347	$6,101	1,114,061	474,870	152,611	37,324	$74,072	16,129,602	5,288,956	2,209,534
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	500	$1,298	237,337	97,536	32,512	3,273	$7,832	1,553,610	994,477	212,824
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.						10	$78	21,822	1,309	1,091
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.						356	$3,915	389,829	25,367	23,770
ENERGY STAR LED lighting	Rebate for LED lighting.						350	$5,228	465,196	38,839	25,844
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	5	$97	14,978	2,496	832	4	$75	11,982	1,331	666
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	260	$77,649	258,464	173,966	58,742	131	$4,430	184,198	111,094	41,864
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	432	$62,971	1,548,451	327,013	103,230	292	$46,637	1,072,366	244,328	71,491
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	10	$5,195	191,214	57,364	19,121					
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	66	$46,975	1,514,418	307,855	126,201	24	$16,523	550,697	122,377	45,891
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	5	$2,273	111,422	27,856	9,285					
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	445	$17,364	1,474,246	484,053	163,805	133	$111	440,617	244,787	48,957
Flow Restrictors - Shower	Incentive for low-flow shower head.	445	$28,889	2,795,477	826,079	279,548	133	$380	835,502	417,751	83,550
Tank Insulation	Incentive for water heater tank insulation.	45	$877	76,376	22,913	7,638					
Pipe Insulation	Incentive for water pipe insulation.	45	$877	79,599	15,920	5,307					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	320	$24,314	775,878	209,399	70,534	249	$21,621	734,366	215,764	66,760
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	150	$4,868	192,757	51,402	17,523	163	$5,561	209,463	60,280	19,042
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	301	$9,771	472,718	93,287	31,515	286	$9,817	449,161	97,056	29,944
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	155	$5,031	436,630	106,810	36,386	27	$932	76,058	22,065	6,338
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	135	$4,381	149,527	29,167	9,968	64	$2,115	70,887	13,437	4,725
Appliance Recycling	Incentives for appliance recycling.	359	$27,663	3,753,172	1,575,333	417,020	69	$5,866	576,090	231,852	64,010
Efficient Television	Rebate for efficient television.	117	$6,073	232,102	55,546	19,342	44	$2,230	87,286	17,029	7,274
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.						7	$3,548	231,441	16,531	7,715
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	74	$3,376	750,147	297,355	83,350					
Weatherization Rebates	Rebates for various insulation measures.	10	$1,948	46,454	4,645	1,548					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	275	$112,910	7,334,514	837,507	249,520	77	$40,842	3,691,716	423,908	123,058
Residential Total		**7,473**	**$1,116,421**	**99,800,953**	**19,550,322**	**6,125,847**	**43,605**	**$637,656**	**80,817,609**	**17,803,167**	**5,978,832**
Percentage of 5 year plan goal - Residential								**57%**	**81%**		**98%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Southwest Iowa Rural Electric Cooperative	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	647	$1,682	349,114	302,019	96,976	4,553	$9,163	2,024,815	1,169,921	562,449
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	2,969	$52,144	3,597,459	1,950,753	689,800	1,078	$33,789	1,827,518	918,597	285,549
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	45	$1,753	49,818	30,501	10,167					
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	25	$11,424	1,064,629	202,279	53,231	8	$3,385	340,681	85,170	17,034
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.						13	$2,554	300,905	86,773	20,060
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	25	$1,306								
Ag/Commercial & Industrial Motors											
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	5	$7,793	1,851,197	370,239	123,413					
Agricultural											
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	123	$14,608	649,053	152,589	54,088					
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	10	$325	27,112	6,778	2,259					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	109	$5,180	431,022	101,165	35,919					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	42	$2,725	397,708	95,482	33,142	1	$111	9,469	3,946	789
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	242	$942	161,092	112,831	40,273					
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	32	$1,038	63,834	18,153	6,383					
Hog Farrowing - Heat Lamp or Pad Controller	Rebate for controller for heat pad or lamp.	5	$325	38,679	7,075	2,358					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		10	$104,154	8,484,429	1,924,605	641,535					
Ag, Commercial and Industrial Total		**4,289**	**$205,397**	**17,165,145**	**5,274,470**	**1,789,545**	**5,653**	**$49,001**	**4,503,388**	**2,264,406**	**885,882**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**24%**	**26%**		**50%**
II. Demand Response Programs											
Industrial Interruptible Price	Industrial Interruptible Price	5	$58,580								
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	5	$3,886								
Energy Audit Services - Residential *	Energy Audit Services - Residential	5	$4,143					$1,366			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	29,530	$127,386				21,303	$191,901			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	20,030	$97,691				17,514	$71,047			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$52,985				21,303	$58,821			
TOTAL		**61,337**	**$1,666,489**	**116,966,098**	**24,824,792**	**7,915,393**	**109,378**	**$1,009,792**	**85,320,997**	**20,067,573**	**6,864,714**
Percentage of 5 year plan goal achieved								**61%**	**73%**		**87%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Southwest Iowa Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$921	24,301	1,736	2	15	3,238	63,307	4,522	5
ENERGY STAR Qualified Room Air Conditioner	1	$33	883	98	0	8	$288	7,062	785	1
Geothermal Heat Pump	37	$76,678	9,756,473	487,824	16	40	$54,761	10,547,538	527,377	19
Air Source Heat Pump	49	$45,987	5,731,868	382,125	15	27	$24,516	3,158,376	210,558	9
Heat Recovery Ventilators	2	$329	24,863	1,243		3	$746	37,295	1,865	
Residential Contractor Rebates	86	$17,200				66	$13,403			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	507	$1,334	240,660	32,967	30	2,717	$4,126	1,442,787	197,642	180
Local CFL Rebate Program(s)	100	$263	47,467	6,502	6	2,809	$6,545	1,333,361	182,652	186
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures										
ENERGY STAR LED lighting										
ENERGY STAR Ceiling Fan	1	$20	2,996	166	0					
Exterior Lighting										
High Efficiency Exterior Lighting	50	$15,132	49,705	11,297	1	24	$872	28,630	6,507	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	95	$12,895	339,293	22,620	3	93	$18,152	336,317	22,421	3
Heat Pump Water Heater - (Add-On)	2	$1,053	38,243	3,824	0					
Heat Pump Water Heater - (Integrated)	7	$5,066	160,620	13,385	1					
Solar Water Heaters (w/ Electric auxiliary tank)	1	$461	22,284	1,857	0					
Flow Restrictors - Faucet	85	$3,355	281,598	31,289	2	133	$111	440,617	48,957	3
Flow Restrictors - Shower	85	$5,592	533,967	53,397	4	133	$380	835,502	83,550	7
Tank Insulation	9	$178	15,275	1,528	0					
Pipe Insulation	9	$178	15,920	1,061	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	62	$4,743	150,326	13,666	5	68	$5,846	142,891	12,990	5
ENERGY STAR Qualified Dishwasher	28	$921	35,981	3,271	3	42	$1,542	53,972	4,907	4
ENERGY STAR Qualified Refrigerator	58	$1,908	91,089	6,073	1	65	$2,387	102,082	6,805	1
ENERGY STAR Qualified Dehumidifier	29	$954	81,692	6,808	1	8	$272	22,536	1,878	0
ENERGY STAR Qualified Freezer	25	$822	27,690	1,846	0	6	$220	6,646	443	0
Appliance Recycling	104	$7,953	1,116,154	124,017	20	32	$2,234	242,487	26,943	7
Efficient Television	20	$1,053	39,676	3,306	1	5	$240	9,919	827	0
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						1	$546	33,063	1,102	0
Additional Low Income										
Energy Efficiency Kits	19	$875	192,605	21,401	2					
Weatherization Rebates	2	$395	9,291	310	0					
Building Shell - Existing Home Only										
Weatherization Rebates	71	$27,852	1,656,434	56,743	7	11	$9,782	1,177,605	39,253	4
Residential Total	**1,551**	**$234,148**	**20,687,354**	**1,290,357**	**121**	**6,306**	**$150,206**	**20,021,993**	**1,381,985**	**434**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Southwest Iowa Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	140	$368	75,542	20,984	8					
High Efficiency Interior Lighting	464	$7,900	546,146	106,828	2	256	$5,778	501,761	78,400	4
Exterior Lighting										
High Efficiency Exterior Lighting	9	$355	9,964	2,033	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	15	$6,908	638,777	31,939	2	8	$3,385	340,681	17,034	1
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)						10	$1,804	233,259	15,551	1
Commercial Contractor Rebate (GS & AS)	15	$789								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,579	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	19	$2,289	100,260	8,355	2					
Ventilation Thermostat Controller	2	$66	5,422	452	0					
Circulating Fans --- BESS Lab Ratings	17	$819	67,224	5,602	2					
Efficient Livestock Waterers	7	$461	66,285	5,524		1	$111	9,469	789	
Hog Farrowing - Heat Lamps (<= 175W)	37	$146	24,630	6,157						
Hog Farrowing - Single Crate Heating Pads (<=85W)	5	$164	9,974	997						
Hog Farrowing - Heat Lamp or Pad Controller	1	$66	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$21,103	1,696,886	128,307	13					
Ag, Commercial and Industrial Total	**734**	**$43,014**	**3,619,084**	**342,333**	**31**	**275**	**$11,077**	**1,085,171**	**111,774**	**6**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$10,731			105					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$636								
Energy Audit Services - Residential *	1	$693								
IV. Educational & Research Programs										
Member Information and Education	5,900	$25,350				4,316	$55,507			
Living with Energy in Iowa	4,000	$19,200				4,316	$19,124			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,597				4,316	$11,189			
TOTAL	**12,188**	**$344,369**	**24,306,438**	**1,632,690**	**257**	**19,529**	**$247,103**	**21,107,163**	**1,493,759**	**440**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Southwest Iowa Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$915	24,301	1,736	2	12	$2,048	47,276	3,377	4
ENERGY STAR Qualified Room Air Conditioner	1	$33	883	98	0	8	$315	7,062	785	1
Geothermal Heat Pump	43	$88,529	11,338,603	566,930	18	27	$42,821	6,592,211	329,611	12
Air Source Heat Pump	53	$49,608	6,199,775	413,318	16	23	$23,485	2,475,691	165,046	5
Heat Recovery Ventilators	2	$327	24,863	1,243		1	$197	12,432	622	
Residential Contractor Rebates	96	$19,200				42	$13,236			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	507	$1,325	240,660	32,967	30	2,000	$5,199	973,549	133,363	24
Local CFL Rebate Program(s)	100	$261	47,467	6,502	6	38	$120	18,038	2,471	3
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures						12	$189	6,724	410	
ENERGY STAR LED lighting										
ENERGY STAR Ceiling Fan	1	$20	2,996	166	0					
Exterior Lighting										
High Efficiency Exterior Lighting	51	$15,333	50,699	11,522	1	25	$1,182	28,489	6,475	
Residential Water Heating (low income included)										
High Efficiency Water Heater	97	$13,072	346,170	23,078	3	60	$9,848	216,761	14,451	2
Heat Pump Water Heater - (Add-On)	2	$1,046	38,243	3,824	0					
Heat Pump Water Heater - (Integrated)	9	$6,471	206,511	17,209	2	5	$4,139	114,729	9,561	1
Solar Water Heaters (w/ Electric auxiliary tank)	1	$458	22,284	1,857	0					
Flow Restrictors - Faucet	87	$3,412	288,223	32,025	2					
Flow Restrictors - Shower	87	$5,686	546,531	54,653	4					
Tank Insulation	9	$176	15,275	1,528	0					
Pipe Insulation	9	$176	15,920	1,061	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	63	$4,804	152,751	13,886	5	65	$6,232	174,464	15,860	6
ENERGY STAR Qualified Dishwasher	29	$948	37,266	3,388	3	29	$1,142	37,266	3,388	3
ENERGY STAR Qualified Refrigerator	59	$1,928	92,659	6,177	1	64	$2,521	100,512	6,701	1
ENERGY STAR Qualified Dehumidifier	30	$980	84,509	7,042	1	8	$315	22,536	1,878	
ENERGY STAR Qualified Freezer	26	$850	28,798	1,920	0	10	$394	11,076	738	
Appliance Recycling	107	$8,182	1,148,351	127,595	20	8	$851	72,775	8,086	2
Efficient Television	22	$1,150	43,643	3,637	1	3	$189	5,951	496	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits	23	$1,052	233,154	25,906	3					
Weatherization Rebates	2	$392	9,291	310	0					
Building Shell - Existing Home Only										
Weatherization Rebates	81	$31,194	1,859,854	63,674	8	30	$14,077	1,028,689	34,290	3
Residential Total	**1,604**	**$257,529**	**23,099,682**	**1,423,254**	**127**	**2,470**	**$128,500**	**11,946,231**	**737,609**	**67**
Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Southwest Iowa Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	140	$366	75,542	20,984	8	216	$560	104,996	29,166	3
High Efficiency Interior Lighting	557	$9,756	670,438	129,066	2	143	$5,438	257,831	40,286	1
Exterior Lighting										
High Efficiency Exterior Lighting	9	$353	9,964	2,033	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,569	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	23	$2,752	121,368	10,114	3					
Ventilation Thermostat Controller	2	$65	5,422	452	0					
Circulating Fans --- BESS Lab Ratings	20	$958	79,087	6,591	2					
Efficient Livestock Waterers	8	$523	75,754	6,313						
Hog Farrowing - Heat Lamps (<= 175W)	44	$173	29,289	7,322						
Hog Farrowing - Single Crate Heating Pads (<=85W)	6	$196	11,969	1,197						
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$20,965	1,696,886	128,307	13					
Ag, Commercial and Industrial Total	**813**	**$37,741**	**3,153,694**	**337,533**	**30**	**359**	**$5,998**	**362,827**	**69,452**	**4**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$11,523			110					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$800								
Energy Audit Services - Residential *	1	$850								
IV. Educational & Research Programs										
Member Information and Education	5,900	$25,350				4,276	$37,357			
Living with Energy in Iowa	4,000	$19,200				4,276	$19,568			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,597				4,276	$11,395			
TOTAL	**12,320**	**$363,590**	**26,253,376**	**1,760,787**	**268**	**15,657**	**$202,818**	**12,309,058**	**807,061**	**71**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Southwest Iowa Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$909	24,301	1,736	2	14	1,815	48,603	3,472	4
ENERGY STAR Qualified Room Air Conditioner	1	$32	883	98	0	4	$125	3,531	392	
Geothermal Heat Pump	47	$96,136	12,393,357	619,668	20	35	$48,194	9,229,096	461,455	17
Air Source Heat Pump	58	$54,156	6,784,660	452,311	18	33	$24,760	3,676,143	245,076	9
Heat Recovery Ventilators	2	$325	24,863	1,243		3	$469	37,295	1,865	
Residential Contractor Rebates	105	$21,000				52	$13,019			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	482	$1,252	228,793	31,342	29	9,800	$20,234	4,364,769	597,913	84
Local CFL Rebate Program(s)	100	$260	47,467	6,502	6	273	$665	129,586	17,752	18
ENERGY STAR CFL/LED Fixtures										
T8 or better Lighting Fixtures						5	$233	2,295	140	
ENERGY STAR LED lighting						16	$628	21,266	1,181	1
ENERGY STAR Ceiling Fan	1	$19	2,996	166	0					
Exterior Lighting										
High Efficiency Exterior Lighting	52	$15,532	51,693	11,748	1	18	$676	20,512	4,662	
Residential Water Heating (low income included)										
High Efficiency Water Heater	99	$13,247	353,047	23,536	3	58	$7,636	211,835	14,122	2
Heat Pump Water Heater - (Add-On)	2	$1,039	38,243	3,824	0					
Heat Pump Water Heater - (Integrated)	12	$8,571	275,349	22,946	3	10	$6,759	229,457	19,121	2
Solar Water Heaters (w/ Electric auxiliary tank)	1	$455	22,284	1,857	0					
Flow Restrictors - Faucet	89	$3,467	294,849	32,761	2					
Flow Restrictors - Shower	89	$5,779	559,095	55,910	4					
Tank Insulation	9	$175	15,275	1,528	0					
Pipe Insulation	9	$175	15,920	1,061	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	64	$4,864	155,176	14,107	5	44	$3,680	210,336	19,121	2
ENERGY STAR Qualified Dishwasher	30	$974	38,551	3,505	3	32	$1,001	41,122	3,738	3
ENERGY STAR Qualified Refrigerator	60	$1,948	94,230	6,282	1	65	$2,034	102,082	6,805	1
ENERGY STAR Qualified Dehumidifier	31	$1,006	87,326	7,277	1	2	$63	5,634	469	
ENERGY STAR Qualified Freezer	27	$877	29,905	1,994	0	24	$751	26,583	1,772	
Appliance Recycling	110	$8,412	1,180,547	131,172	21	17	$1,590	146,919	16,324	4
Efficient Television	24	$1,247	47,611	3,968	1	8	$401	15,870	1,323	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						2	$1,252	66,126	2,204	
Additional Low Income										
Energy Efficiency Kits	18	$818	182,468	20,274	2					
Weatherization Rebates	2	$390	9,291	310	0					
Building Shell - Existing Home Only										
Weatherization Rebates	89	$34,138	2,053,984	70,295	9	9	$5,731	440,069	14,669	1
Residential Total	**1,620**	**$277,205**	**25,012,164**	**1,527,420**	**131**	**10,524**	**$141,716**	**19,029,129**	**1,433,576**	**148**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Southwest Iowa Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	133	$345	71,765	19,935	8	1,223	$2,521	571,158	158,655	9
High Efficiency Interior Lighting	628	$11,173	767,800	146,328	2	213	$5,325	305,238	47,693	1
Exterior Lighting										
High Efficiency Exterior Lighting	9	$351	9,964	2,033	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,558	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	26	$3,091	137,198	11,433	3					
Ventilation Thermostat Controller	2	$65	5,422	452	0					
Circulating Fans --- BESS Lab Ratings	23	$1,094	90,950	7,579	2					
Efficient Livestock Waterers	9	$584	85,223	7,102						
Hog Farrowing - Heat Lamps (<= 175W)	51	$199	33,949	8,487						
Hog Farrowing - Single Crate Heating Pads (<=85W)	7	$227	13,964	1,396						
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$20,829	1,696,886	128,307	13					
Ag, Commercial and Industrial Total	**892**	**$39,582**	**3,291,096**	**358,207**	**31**	**1,436**	**$7,846**	**876,396**	**206,348**	**10**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$11,811			110					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$800								
Energy Audit Services - Residential *	1	$850								
IV. Educational & Research Programs										
Member Information and Education	5,910	$25,393				4,228	$37,357			
Living with Energy in Iowa	4,010	$19,633				4,228	$18,291			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,597				4,228	$11,881			
TOTAL	**12,435**	**$385,871**	**28,303,260**	**1,885,627**	**272**	**24,644**	**$217,091**	**19,905,525**	**1,639,924**	**158**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Southwest Iowa Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$903	24,301	1,736	2	5	$688	20,166	1,440	2
ENERGY STAR Qualified Room Air Conditioner	1	$32	883	98	0	4	$125	3,531	392	0
Geothermal Heat Pump	34	$48,592	8,789,615	439,481	15	24	$35,031	6,328,523	316,426	11
Air Source Heat Pump	28	$24,254	3,103,403	206,893	9	15	$9,563	1,601,241	106,749	3
Heat Recovery Ventilators	2	$323	24,863	1,243		3	$469	37,295	1,865	
Residential Contractor Rebates	110	$22,000				28	$7,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	443	$1,143	210,281	28,806	27	12,238	$24,105	5,058,453	692,939	95
Local CFL Rebate Program(s)	100	$258	47,467	6,502	6	125	$454	59,334	8,128	8
ENERGY STAR CFL/LED Fixtures						2	$20	4,364	218	0
T8 or better Lighting Fixtures						2	$35	1,428	87	0
ENERGY STAR LED lighting						144	$2,914	191,395	10,633	6
ENERGY STAR Ceiling Fan	1	$19	2,996	166	0	4	$75	11,982	666	0
Exterior Lighting										
High Efficiency Exterior Lighting	53	$15,729	52,687	11,974	1	39	$1,100	63,598	14,454	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	70	$11,879	254,971	16,998	2	45	$6,188	173,333	11,556	2
Heat Pump Water Heater - (Add-On)	2	$1,032	38,243	3,824	0					
Heat Pump Water Heater - (Integrated)	16	$11,355	367,132	30,594	3	5	$3,125	114,729	9,561	1
Solar Water Heaters (w/ Electric auxiliary tank)	1	$452	22,284	1,857	0					
Flow Restrictors - Faucet	91	$3,552	301,475	33,497	2					
Flow Restrictors - Shower	91	$5,871	571,659	57,166	5					
Tank Insulation	9	$174	15,275	1,528	0					
Pipe Insulation	9	$174	15,920	1,061	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	65	$4,923	157,600	14,327	5	44	$3,500	123,437	11,222	4
ENERGY STAR Qualified Dishwasher	31	$1,000	39,837	3,622	3	34	$1,063	43,692	3,972	3
ENERGY STAR Qualified Refrigerator	61	$1,968	95,800	6,387	1	59	$1,844	92,659	6,177	1
ENERGY STAR Qualified Dehumidifier	32	$1,032	90,143	7,512	1	7	$219	19,719	1,643	0
ENERGY STAR Qualified Freezer	28	$903	31,013	2,068	0	16	$500	17,722	1,181	0
Appliance Recycling	19	$1,558	154,060	17,118	4	3	$288	28,477	3,164	1
Efficient Television	25	$1,290	49,595	4,133	1	14	$700	27,773	2,314	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits	9	$406	91,234	10,137	1					
Weatherization Rebates	2	$387	9,291	310	0					
Building Shell - Existing Home Only										
Weatherization Rebates	17	$9,863	882,121	29,404	2	10	$3,718	348,848	11,628	1
Residential Total	**1,357**	**$171,073**	**15,444,149**	**938,442**	**89**	**12,870**	**$102,724**	**14,371,698**	**1,216,416**	**141**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Southwest Iowa Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	122	$315	65,830	18,286	7	1,670	$3,293	729,591	202,664	13
High Efficiency Interior Lighting	660	$11,695	806,538	153,789	2	421	$15,308	660,498	103,203	4
Exterior Lighting										
High Efficiency Exterior Lighting	9	$348	9,964	2,033	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	10	$4,516	425,851	21,293	1					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)						3	$750	67,645	4,510	0
Commercial Contractor Rebate (GS & AS)	10	$516								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,548	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	27	$3,189	142,475	11,873	4					
Ventilation Thermostat Controller	2	$65	5,422	452	0					
Circulating Fans --- BESS Lab Ratings	24	$1,134	94,904	7,909	2					
Efficient Livestock Waterers	9	$581	85,223	7,102						
Hog Farrowing - Heat Lamps (<= 175W)	54	$209	35,946	8,987						
Hog Farrowing - Single Crate Heating Pads (<=85W)	7	$226	13,964	1,396						
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$20,695	1,696,886	128,307	13					
Ag, Commercial and Industrial Total	**938**	**$45,101**	**3,760,978**	**386,581**	**32**	**2,094**	**$19,351**	**1,457,734**	**310,377**	**18**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$12,106			110					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$825								
Energy Audit Services - Residential *	1	$875					$683			
IV. Educational & Research Programs										
Member Information and Education	5,910	$25,393				4,258	$34,193			
Living with Energy in Iowa	4,010	$19,633				4,258	$12,923			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,597				4,258	$12,149			
TOTAL	**12,218**	**$285,603**	**19,205,127**	**1,325,023**	**231**	**27,738**	**$182,023**	**15,829,433**	**1,526,793**	**158**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Southwest Iowa Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	7	$897	24,301	1,736	2	6	$750	20,830	1,488	2
ENERGY STAR Qualified Room Air Conditioner	1	$32	883	98	0					
Geothermal Heat Pump	34	$48,592	8,789,615	439,481	15	24	$36,500	6,328,523	316,426	11
Air Source Heat Pump	28	$24,254	3,103,403	206,893	9	24	$17,813	2,715,398	181,027	7
Heat Recovery Ventilators	2	$321	24,863	1,243		3	$469	37,295	1,865	
Residential Contractor Rebates	115	$23,000				40	$10,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	408	$1,046	193,667	26,530	24	10,569	$20,408	4,290,043	587,677	81
Local CFL Rebate Program(s)	100	$256	47,467	6,502	6	28	$48	13,291	1,821	2
ENERGY STAR CFL/LED Fixtures						8	$58	17,457	873	0
T8 or better Lighting Fixtures						337	$3,458	379,382	23,133	3
ENERGY STAR LED lighting						190	$1,686	252,535	14,030	8
ENERGY STAR Ceiling Fan	1	$19	2,996	166	0					
Exterior Lighting										
High Efficiency Exterior Lighting	54	$15,923	53,681	12,200	1	25	$600	42,969	9,766	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	70	$11,879	254,971	16,998	2	36	$4,813	134,120	8,941	1
Heat Pump Water Heater - (Add-On)	2	$1,026	38,243	3,824	0					
Heat Pump Water Heater - (Integrated)	22	$15,513	504,806	42,067	5	4	$2,500	91,783	7,649	1
Solar Water Heaters (w/ Electric auxiliary tank)	1	$449	22,284	1,857	0					
Flow Restrictors - Faucet	93	$3,577	308,101	34,233	2					
Flow Restrictors - Shower	93	$5,961	584,223	58,422	5					
Tank Insulation	9	$173	15,275	1,528	0					
Pipe Insulation	9	$173	15,920	1,061	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	66	$4,981	160,025	14,548	5	28	$2,363	83,237	7,567	3
ENERGY STAR Qualified Dishwasher	32	$1,026	41,122	3,738	3	26	$813	33,411	3,037	3
ENERGY STAR Qualified Refrigerator	63	$2,019	98,941	6,596	1	33	$1,031	51,826	3,455	0
ENERGY STAR Qualified Dehumidifier	33	$1,058	92,960	7,747	1	2	$63	5,634	469	0
ENERGY STAR Qualified Freezer	29	$929	32,121	2,141	0	8	$250	8,861	591	0
Appliance Recycling	19	$1,558	154,060	17,118	4	9	$903	85,431	9,492	2
Efficient Television	26	$1,333	51,578	4,298	1	14	$700	27,773	2,314	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *						4	$1,750	132,252	4,408	1
Additional Low Income										
Energy Efficiency Kits	5	$224	50,686	5,632	1					
Weatherization Rebates	2	$385	9,291	310	0					
Building Shell - Existing Home Only										
Weatherization Rebates	17	$9,863	882,121	29,404	2	17	$7,534	696,505	23,217	2
Residential Total	**1,341**	**$176,466**	**15,557,604**	**946,373**	**88**	**11,435**	**$114,510**	**15,448,558**	**1,209,246**	**127**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Southwest Iowa Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	112	$287	60,434	16,787	7	1,444	$2,789	619,070	171,964	11
High Efficiency Interior Lighting	660	$11,620	806,538	153,789	2	45	$1,940	102,190	15,967	0
Exterior Lighting										
High Efficiency Exterior Lighting	9	$346	9,964	2,033	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,538	370,239	24,683	2					
Agricultural										
Livestock Ventilation Fans	28	$3,286	147,752	12,313	4					
Ventilation Thermostat Controller	2	$64	5,422	452	0					
Circulating Fans --- BESS Lab Ratings	25	$1,174	98,858	8,238	3					
Efficient Livestock Waterers	9	$577	85,223	7,102						
Hog Farrowing - Heat Lamps (<= 175W)	56	$215	37,277	9,319						
Hog Farrowing - Single Crate Heating Pads (<=85W)	7	$224	13,964	1,396						
Hog Farrowing - Heat Lamp or Pad Controller	1	$64	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$20,562	1,696,886	128,307	13					
Ag, Commercial and Industrial Total	**912**	**$39,959**	**3,340,293**	**364,892**	**30**	**1,489**	**$4,729**	**721,261**	**187,931**	**12**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$12,409			110					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$825								
Energy Audit Services - Residential *	1	$875					$683			
IV. Educational & Research Programs										
Member Information and Education	5,910	$25,900				4,225	$27,487			
Living with Energy in Iowa	4,010	$20,025				436	$1,141			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,597				4,225	$12,207			
TOTAL	**12,176**	**$287,056**	**18,897,897**	**1,311,265**	**228**	**21,810**	**$160,757**	**16,169,819**	**1,397,177**	**139**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. T.I.P. Rural Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of T.I.P. Rural Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

T.I.P. Rural Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for T.I.P. Rural Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including T.I.P. Rural Electric Cooperative.

T.I.P. Rural Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. T.I.P. Rural Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and

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appliances. T.I.P. Rural Electric Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of T.I.P. Rural Electric Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. T.I.P. Rural Electric Cooperative also offers energy audits for all member-consumers.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, T.I.P. Rural Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. T.I.P. Rural Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. T.I.P. Rural Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), T.I.P. Rural Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which T.I.P. Rural Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take

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advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for T.I.P Rural Electric Cooperative. T.I.P Rural Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

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		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
T.I.P. Rural Electric Cooperative	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	105	$16,885	504,927	108,199	36,066	87	$14,890	400,317	85,240	28,594
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	40	$1,299	35,311	11,770	3,923	37	$1,781	32,663	12,654	3,629
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	128	$281,170	33,840,017	4,878,237	1,692,001	119	$258,676	31,378,925	5,023,266	1,568,947
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	40	$36,390	4,679,076	967,009	311,938	28	$30,862	2,937,846	622,852	195,856
Residential Contractor Rebates	Incentive for heat pump installs	110	$26,000				108	$29,381			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	23,850	$61,497	11,320,986	2,890,182	1,550,820	41,500	$81,381	17,883,966	5,767,647	2,449,859
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	23,779	$62,168	11,287,284	6,170,183	1,546,203	41,933	$180,259	19,904,525	10,880,057	2,726,647
ENERGY STAR CFL/LED Fixtures	Rebate for compact florescent light fixtures.	34	$353	74,193	10,256	3,710	44	$219	96,015	14,727	4,800
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	122	$1,835	85,908	14,683	5,238	341	$7,272	378,245	44,588	23,064
ENERGY STAR LED lighting	Rebate for LED lighting.	223	$8,604	296,397	24,515	16,466	448	$9,729	595,451	47,181	33,080
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	15	$292	44,933	7,489	2,496	2	$44	5,992	830	332
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	156	$5,971	162,047	91,668	36,275	336	$30,880	651,966	417,690	148,174
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	408	$106,604	1,418,887	300,520	94,592	391	$87,011	1,367,205	283,298	91,147
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	15	$5,845	286,822	86,046	28,682					
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	41	$31,920	940,775	223,721	78,398	10	$6,945	229,457	47,802	19,121
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	5	$2,273	111,422	27,856	9,285					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	350	$26,133	848,617	229,237	77,147	396	$34,541	980,949	295,648	89,177
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	175	$5,680	224,884	60,164	20,444	174	$8,734	223,598	67,292	20,328
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	340	$11,036	533,967	104,700	35,598	420	$14,340	659,607	148,568	43,974
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	155	$5,031	436,630	106,810	36,386	52	$1,755	146,483	37,090	12,207
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	140	$4,544	155,065	30,275	10,338	124	$4,114	137,343	27,026	9,156
Appliance Recycling	Incentives for appliance recycling.	82	$6,271	880,044	298,118	97,783	54	$7,128	490,014	146,993	54,447
Efficient Television	Rebate for efficient television.	117	$6,073	232,102	55,546	19,342	86	$6,106	170,605	38,849	14,217
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	15	$9,741	495,945	49,595	16,532	8	$5,165	244,336	19,352	8,144
Advanced Lighting Package		24	$6,221	206,313	27,508	10,316					
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	45	$2,059	456,170	202,742	50,686					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	128	$47,889	2,866,088	321,507	97,991	50	$19,470	1,242,210	118,966	41,408
Residential Total		**50,642**	**$779,783**	**72,424,811**	**17,298,535**	**5,888,657**	**86,748**	**$840,682**	**80,157,716**	**24,147,617**	**7,586,307**
Percentage of 5 year plan goal - Residential								**108%**	**111%**		**129%**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
T.I.P. Rural Electric Cooperative	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	2,813	$7,253	1,517,861	787,949	421,628	3,501	$6,990	1,645,665	944,267	457,130
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	21,487	$53,576	11,257,653	14,712,258	4,134,771	3,105	$120,345	8,287,143	2,642,920	1,294,866
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	35	$1,136	51,496	10,299	3,433					
Geothermal Heat Pump	Rebate for geothermal heat pump.	188	$45,742	8,006,007	1,967,434	400,300	229	$34,852	9,760,515	2,440,129	488,026
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	188	$3,047								
Ag/Commercial & Industrial Motors											
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	3	$4,676	1,110,718	222,144	74,048	2	$4,093	617,066	205,689	41,138
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.						1	$2,304	146,056	38,948	9,737
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.							$1,991			
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	87	$10,342	459,086	113,452	38,257	31	$10,123	243,529	20,294	20,294
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	5	$162	13,556	3,389	1,130		$526			
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	66	$3,136	260,986	60,963	21,749		$526			
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	27	$1,751	255,670	59,972	21,306					
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	131	$510	87,203	61,241	21,801		$526			
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	10	$325	19,948	5,984	1,995					
Hog Farrowing - Heat Lamp or Pad Controller	Rebate for controller for heat pad or lamp.	5	$325	38,679	7,075	2,358					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program							1	$6,971	1,026,487	171,081	85,541
Ag, Commercial and Industrial Total		**25,045**	**$131,982**	**23,078,863**	**18,012,160**	**5,142,776**	**6,870**	**$189,248**	**21,726,462**	**6,463,328**	**2,396,730**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**143%**	**94%**		**47%**

II. Demand Response Programs											
Industrial Interruptible Price	Industrial Interruptible Price	11	$460,732				15	$691,374			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.						1	$1,680			
Energy Audit Services - Residential *	Energy Audit Services - Residential	30	$8,600				26	$12,015			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	31,000	$133,000				25,937	$95,848			
Peak Alert	Peak Alert	31,000									
Living with Energy in Iowa	Living with Energy in Iowa magazine.	25,500	$114,750				25,937	$66,596			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	31,000	$71,685				25,937	$77,935			
TOTAL		**194,228**	**$1,700,532**	**95,503,675**	**35,310,695**	**11,031,433**	**171,471**	**$1,975,379**	**101,884,177**	**30,610,944**	**9,983,038**
Percentage of 5 year plan goal achieved								**116%**	**107%**		**90%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
T.I.P. Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	21	$3,421	100,985	7,213	7	15	3,867	77,348	5,525	6
ENERGY STAR Qualified Room Air Conditioner	8	$263	7,062	785	1	9	$864	7,945	883	1
Geothermal Heat Pump	20	$41,447	5,273,769	263,688	9	24	$59,265	6,328,523	316,426	11
Air Source Heat Pump	8	$7,368	935,815	62,388	2	6	$11,196	701,861	46,791	2
Residential Contractor Rebates	20	$4,000				25	$6,831			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	966	$2,542	458,536	62,813	58	2,814	$4,121	1,493,955	204,651	186
Local CFL Rebate Program(s)	8,025	$21,118	3,809,263	521,817	482	14,058	$70,735	6,672,974	914,106	930
ENERGY STAR CFL/LED Fixtures	5	$53	10,911	546	0					
T8 or better Lighting Fixtures	19	$289	13,375	816	0					
ENERGY STAR LED lighting	1	$39	1,329	74	0					
ENERGY STAR Ceiling Fan	3	$59	8,987	499	0					
Exterior Lighting										
High Efficiency Exterior Lighting	22	$855	22,891	5,121	0	76	$13,011	90,661	20,605	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	82	$21,711	286,094	19,073	3	112	$26,485	387,184	25,812	4
Heat Pump Water Heater - (Add-On)	3	$1,184	57,364	5,736	1					
Heat Pump Water Heater - (Integrated)	6	$4,737	137,674	11,473	1	1	$578	22,946	1,912	0
Solar Water Heaters (w/ Electric auxiliary tank)	1	$461	22,284	1,857	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	68	$5,112	164,874	14,989	5	113	$8,234	237,451	21,586	9
ENERGY STAR Qualified Dishwasher	33	$1,086	42,407	3,855	3	40	$1,592	51,402	4,673	4
ENERGY STAR Qualified Refrigerator	64	$2,105	100,512	6,701	1	104	$4,138	163,331	10,889	1
ENERGY STAR Qualified Dehumidifier	29	$954	81,692	6,808	1	11	$438	30,987	2,582	0
ENERGY STAR Qualified Freezer	26	$855	28,798	1,920	0	17	$676	18,829	1,255	0
Appliance Recycling	12	$918	128,787	14,310	2	13	$862	102,194	11,355	3
Efficient Television	20	$1,053	39,676	3,306	1	5	$276	9,919	827	0
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	3	$1,974	99,189	3,306	1					
Advanced Lighting Package	3	$789	25,789	1,289	1					
Additional Low Income										
Energy Efficiency Kits	14	$645	141,920	15,769	2					
Building Shell - Existing Home Only										
Weatherization Rebates	28	$10,803	647,015	22,181	3	5	$3,831	210,413	7,014	1
Residential Total	**9,510**	**$135,841**	**12,646,998**	**1,058,332**	**582**	**17,448**	**$216,999**	**16,607,924**	**1,596,892**	**1,159**
Percentage of 5 year plan goal - Residential										

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
T.I.P. Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	106	$279	57,196	15,888	6					
High Efficiency Interior Lighting	6,032	$14,399	3,117,991	1,156,785	17	110	$2,788	286,045	44,695	2
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$230	10,299	687	0					
Geothermal Heat Pump	180	$42,105	7,665,326	383,266	22	229	$34,852	9,760,515	488,026	30
Commercial Contractor Rebate (GS & AS)	180	$2,632								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,579	370,239	24,683	2	2	$4,093	617,066	41,138	4
Agricultural										
Dairy Pre-coolers Incentive							$1,465			
Dairy Heat Reclaimer							$1,465			
Livestock Ventilation Fans	15	$1,807	79,153	6,596	2		$1,949			
Ventilation Thermostat Controller	1	$33	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	10	$482	39,543	3,295	1					
Efficient Livestock Waterers	4	$263	37,877	3,156						
Hog Farrowing - Heat Lamps (<= 175W)	20	$79	13,313	3,328						
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$66	3,990	399						
Hog Farrowing - Heat Lamp or Pad Controller	1	$66	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**6,559**	**$64,020**	**11,405,375**	**1,598,781**	**50**	**341**	**$46,613**	**10,663,626**	**573,858**	**36**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$21,723			230					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I										
Energy Audit Services - Residential *	7	$1,400				7	$1,125			
IV. Educational & Research Programs										
Member Information and Education	6,200	$26,600				5,131	$42,913			
Peak Alert	6,200									
Living with Energy in Iowa	5,100	$22,950				5,131	$14,039			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,200	$14,337				5,131	$14,708			
TOTAL	**39,777**	**$286,871**	**24,052,373**	**2,657,114**	**863**	**33,189**	**$336,398**	**27,271,549**	**2,170,750**	**1,195**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

		Plan Year 2 (2011)					Plan Year 2 (2011)				
		Estimated Achievable Potential					Year to Date Results				
	T.I.P. Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies											
	Residential Cooling & Heating (low income included)										
	ENERGY STAR Central Air Conditioning	21	$3,399	100,985	7,213	7	19	$3,096	85,618	6,116	6
	ENERGY STAR Qualified Room Air Conditioner	8	$261	7,062	785	1	7	$249	6,179	687	1
	Geothermal Heat Pump	25	$51,471	6,592,211	329,611	11	35	$90,834	9,229,096	461,455	17
	Air Source Heat Pump	9	$8,235	1,052,792	70,186	3	7	$9,419	696,108	46,407	1
	Residential Contractor Rebates	25	$5,000				27	$8,335			
	Residential Lighting (low income included)										
	Interior Lighting										
	Change a Light Rebate Program (or similar program)	966	$2,525	458,536	62,813	58	2,019	$3,475	982,616	134,605	25
	Local CFL Rebate Program(s)	7,654	$20,010	3,633,158	497,693	459	13,447	$72,437	6,382,948	874,376	889
	ENERGY STAR CFL/LED Fixtures	6	$63	13,093	655	0	4	$47	8,729	436	
	T8 or better Lighting Fixtures	22	$333	15,490	944	0	52	$1,652	85,113	5,190	3
	ENERGY STAR LED lighting	1	$39	1,329	74	0	22	$762	29,241	1,624	1
	ENERGY STAR Ceiling Fan	3	$59	8,987	499	0	1	$19	2,996	166	
	Exterior Lighting										
	High Efficiency Exterior Lighting	22	$850	22,891	5,121	0	47	$8,357	52,425	11,915	
	Residential Water Heating (low income included)										
	High Efficiency Water Heater	82	$21,569	286,094	19,073	3	62	$17,646	219,390	14,626	2
	Heat Pump Water Heater - (Add-On)	3	$1,176	57,364	5,736	1					
	Heat Pump Water Heater - (Integrated)	8	$6,275	183,566	15,297	2	1	$699	22,946	1,912	
	Solar Water Heaters (w/ Electric auxiliary tank)	1	$458	22,284	1,857	0					
	Residential Appliances (low income included)										
	ENERGY STAR Qualified Clothes Washer	69	$5,170	167,299	15,209	6	92	$6,608	250,233	22,748	9
	ENERGY STAR Qualified Dishwasher	34	$1,111	43,692	3,972	3	47	$1,561	60,397	5,491	5
	ENERGY STAR Qualified Refrigerator	66	$2,157	103,653	6,910	1	112	$3,720	175,895	11,726	1
	ENERGY STAR Qualified Dehumidifier	30	$980	84,509	7,042	1	12	$398	33,804	2,817	
	ENERGY STAR Qualified Freezer	27	$882	29,905	1,994	0	30	$997	33,228	2,215	
	Appliance Recycling	20	$1,530	214,645	23,849	4	7	$447	62,043	6,894	1
	Efficient Television	22	$1,150	43,643	3,637	1	22	$1,075	43,643	3,637	1
	Efficient Home Incentives (low income included)										
	Energy Efficient Home Construction Rebates *	3	$1,961	99,189	3,306	1	2	$1,349	45,958	1,532	
	Advanced Lighting Package	4	$1,046	34,386	1,719	1					
	Additional Low Income										
	Energy Efficiency Kits	17	$778	172,331	19,148	2					
	Building Shell - Existing Home Only										
	Weatherization Rebates	31	$11,737	701,668	24,003	3	8	$1,417	77,996	2,600	1
	Residential Total	**9,179**	**$150,225**	**14,150,763**	**1,128,348**	**566**	**16,082**	**$234,599**	**18,586,602**	**1,619,175**	**963**
	Percentage of 5 year plan goal - Residential										

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
T.I.P. Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	106	$277	57,196	15,888	6	153	$263	78,832	21,898	2
High Efficiency Interior Lighting	5,788	$14,422	3,030,470	1,113,585	16	193	$12,140	556,143	86,897	3
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$229	10,299	687	0					
Geothermal Heat Pump										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive										
Agricultural										
Dairy Pre-coolers Incentive						1	$839	146,056	9,737	5
Dairy Heat Reclaimer							$526			
Livestock Ventilation Fans	18	$2,154	94,983	7,915	2		$1,684			
Ventilation Thermostat Controller	1	$33	2,711	226	0		$526			
Circulating Fans --- BESS Lab Ratings	12	$575	47,452	3,954	1		$526			
Efficient Livestock Waterers	5	$327	47,346	3,946						
Hog Farrowing - Heat Lamps (<= 175W)	24	$94	15,976	3,994			$526			
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$65	3,990	399						
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**5,964**	**$18,241**	**3,318,160**	**1,151,065**	**27**	**347**	**$17,030**	**781,031**	**118,532**	**10**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$24,202			250	3	$68,068			335
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I										
Energy Audit Services - Residential *	6	$1,200				9	$4,667			
IV. Educational & Research Programs										
Member Information and Education	6,200	$26,600				5,163	$29,518			
Peak Alert	6,200									
Living with Energy in Iowa	5,100	$22,950				5,163	$13,931			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,200	$14,337				5,163	$14,870			
TOTAL	**38,850**	**$257,755**	**17,468,923**	**2,279,413**	**842**	**31,930**	**$382,683**	**19,367,633**	**1,737,707**	**1,308**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
T.I.P. Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	21	$3,377	100,985	7,213	7	18	2,487	70,914	5,065	5
ENERGY STAR Qualified Room Air Conditioner	8	$260	7,062	785	1	16	$510	14,125	1,569	2
Geothermal Heat Pump	30	$61,364	7,910,653	395,533	13	21	$40,233	5,537,457	276,873	10
Air Source Heat Pump	10	$9,091	1,169,769	77,985	3	6	$3,929	609,814	40,654	1
Residential Contractor Rebates	30	$6,000				21	$5,356			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	918	$2,384	435,751	59,692	55	10,717	$22,526	4,770,213	653,454	89
Local CFL Rebate Program(s)	8,000	$20,779	3,797,396	520,191	480	14,400	$36,727	6,835,312	936,344	952
ENERGY STAR CFL/LED Fixtures	7	$73	15,275	764	0	39	$153	85,104	4,255	2
T8 or better Lighting Fixtures	25	$377	17,605	1,073	0	41	$1,004	31,450	1,918	1
ENERGY STAR LED lighting	1	$39	1,329	74	0	11	$678	14,620	812	
ENERGY STAR Ceiling Fan	3	$58	8,987	499	0					
Exterior Lighting										
High Efficiency Exterior Lighting	22	$844	22,891	5,121	0	104	$6,244	310,749	70,625	16
Residential Water Heating (low income included)										
High Efficiency Water Heater	129	$33,636	447,706	29,847	4	68	$8,735	235,888	15,726	2
Heat Pump Water Heater - (Add-On)	3	$1,169	57,364	5,736	1					
Heat Pump Water Heater - (Integrated)	10	$7,792	229,457	19,121	2	2	$1,275	45,891	3,824	
Solar Water Heaters (w/ Electric auxiliary tank)	1	$455	22,284	1,857	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	70	$5,227	169,723	15,429	6	76	$11,024	193,521	17,593	7
ENERGY STAR Qualified Dishwasher	35	$1,136	44,977	4,089	3	35	$3,937	44,977	4,089	3
ENERGY STAR Qualified Refrigerator	68	$2,208	106,793	7,120	1	91	$2,908	142,915	9,528	1
ENERGY STAR Qualified Dehumidifier	31	$1,006	87,326	7,277	1	8	$255	22,536	1,878	
ENERGY STAR Qualified Freezer	28	$909	31,013	2,068	0	27	$861	29,905	1,994	
Appliance Recycling	25	$1,912	268,306	29,812	5	7	$3,551	62,043	6,894	1
Efficient Television	24	$1,247	47,611	3,968	1	23	$2,933	45,627	3,802	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	3	$1,948	99,189	3,306	1	3	$1,913	99,189	3,306	1
Advanced Lighting Package	5	$1,299	42,982	2,149	1					
Additional Low Income										
Energy Efficiency Kits	14	$636	141,920	15,769	2					
Building Shell - Existing Home Only										
Weatherization Rebates	34	$12,659	756,322	25,824	3	16	$7,191	514,427	17,148	2
Residential Total	**9,555**	**$177,885**	**16,040,678**	**1,242,303**	**590**	**25,750**	**$164,430**	**19,716,677**	**2,077,351**	**1,096**
Percentage of 5 year plan goal - Residential										

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
T.I.P. Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	101	$262	54,498	15,138	6	927	$1,942	458,920	127,478	8
High Efficiency Interior Lighting	5,867	$14,990	3,096,731	1,131,125	16	559	$13,545	770,370	120,370	10
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$227	10,299	687	0					
Geothermal Heat Pump	8	$3,636	340,681	17,034	1					
Commercial Contractor Rebate (GS & AS)	8	$416								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,558	370,239	24,683	2					
Agricultural										
Dairy Pre-coolers Incentive										
Dairy Heat Reclaimer										
Livestock Ventilation Fans	21	$2,497	110,814	9,234	3					
Ventilation Thermostat Controller	1	$32	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	14	$666	55,361	4,613	1					
Efficient Livestock Waterers	6	$390	56,815	4,735						
Hog Farrowing - Heat Lamps (<= 175W)	28	$109	18,639	4,660						
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$65	3,990	399						
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**6,065**	**$24,913**	**4,128,515**	**1,213,005**	**30**	**1,486**	**$15,487**	**1,229,290**	**247,848**	**18**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	1	$24,807			250	4	$192,571			2,784
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I										
Energy Audit Services - Residential *	10	$2,000				1	$400			
IV. Educational & Research Programs										
Member Information and Education	6,200	$26,600				5,195	$7,866			
Peak Alert	6,200									
Living with Energy in Iowa	5,100	$22,950				5,195	$13,209			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,200	$14,337				5,195	$15,793			
TOTAL	**39,331**	**$293,493**	**20,169,192**	**2,455,308**	**870**	**42,826**	**$409,756**	**20,945,967**	**2,325,199**	**3,898**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
T.I.P. Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	21	$3,355	100,985	7,213	7	18	$2,776	84,954	6,068	6
ENERGY STAR Qualified Room Air Conditioner	8	$258	7,062	785	1	3	$95	2,648	294	0
Geothermal Heat Pump	27	$63,444	7,031,692	351,585	13	19	$34,943	5,010,080	250,504	9
Air Source Heat Pump	5	$4,516	584,884	38,992	2	3	$1,262	289,566	19,304	0
Residential Contractor Rebates	15	$3,000				16	$4,038			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	12,000	$30,968	5,696,094	780,287	794	13,924	$27,690	5,755,758	788,460	108
Local CFL Rebate Program(s)	50	$130	23,734	3,251	3	18	$288	8,544	1,170	1
ENERGY STAR CFL/LED Fixtures	8	$83	17,457	873	0	1	$19	2,182	109	0
T8 or better Lighting Fixtures	28	$419	19,719	1,202	0	38	$555	34,739	2,118	1
ENERGY STAR LED lighting	100	$3,871	132,913	7,384	4	103	$2,414	136,901	7,606	5
ENERGY STAR Ceiling Fan	3	$58	8,987	499	0					
Exterior Lighting										
High Efficiency Exterior Lighting	40	$1,526	41,540	9,300	0	39	$1,035	44,443	10,101	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	55	$14,247	190,842	12,723	2	58	$13,245	203,569	13,571	2
Heat Pump Water Heater - (Add-On)	3	$1,161	57,364	5,736	1					
Heat Pump Water Heater - (Integrated)	8	$6,194	183,566	15,297	2	4	$2,924	91,783	7,649	1
Solar Water Heaters (w/ Electric auxiliary tank)	1	$452	22,284	1,857	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	71	$5,284	172,148	15,650	6	71	$5,300	183,653	16,696	7
ENERGY STAR Qualified Dishwasher	36	$1,161	46,262	4,206	3	31	$978	39,837	3,622	3
ENERGY STAR Qualified Refrigerator	70	$2,258	109,934	7,329	1	65	$2,051	102,082	6,805	1
ENERGY STAR Qualified Dehumidifier	32	$1,032	90,143	7,512	1	10	$315	28,170	2,347	0
ENERGY STAR Qualified Freezer	29	$935	32,121	2,141	0	30	$946	33,228	2,215	0
Appliance Recycling	10	$765	107,322	11,925	2	12	$1,066	113,909	12,657	2
Efficient Television	25	$1,290	49,595	4,133	1	17	$858	33,724	2,810	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	3	$1,935	99,189	3,306	1					
Advanced Lighting Package	6	$1,548	51,578	2,579	1					
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	15	$5,459	326,178	11,136	2	13	$3,680	222,216	7,407	2
Residential Total	**12,669**	**$155,350**	**15,203,595**	**1,306,901**	**846**	**14,493**	**$106,478**	**12,421,986**	**1,161,514**	**150**
Percentage of 5 year plan goal - Residential										

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
T.I.P. Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	1,500	$3,871	809,382	224,828	90	1,299	$2,587	599,355	166,488	10
High Efficiency Interior Lighting	1,800	$4,630	953,271	347,341	5	979	$54,281	4,274,208	667,845	103
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$226	10,299	687	0					
Geothermal Heat Pump										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive										
Agricultural										
Dairy Pre-coolers Incentive										
Dairy Heat Reclaimer										
Livestock Ventilation Fans	15	$1,772	79,153	6,596	2					
Ventilation Thermostat Controller	1	$32	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	15	$709	59,315	4,943	2					
Efficient Livestock Waterers	6	$387	56,815	4,735						
Hog Farrowing - Heat Lamps (<= 175W)	29	$112	19,304	4,826						
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$65	3,990	399						
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program						1	$6,971	1,026,487	85,541	20
Ag, Commercial and Industrial Total	**3,376**	**$11,868**	**2,001,976**	**595,053**	**99**	**2,279**	**$63,839**	**5,900,051**	**919,873**	**133**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	4	$195,000			2,784	4	$214,269			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I						1	$1,680			
Energy Audit Services - Residential *	3	$2,000					$716			
IV. Educational & Research Programs										
Member Information and Education	6,200	$26,600				5,217	$8,080			
Peak Alert	6,200									
Living with Energy in Iowa	5,100	$22,950				5,217	$12,371			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,200	$14,337				5,217	$16,129			
TOTAL	**39,752**	**$428,105**	**17,205,572**	**1,901,953**	**3,729**	**32,428**	**$423,562**	**18,322,037**	**2,081,387**	**283**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
T.I.P. Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	21	$3,333	100,985	7,213	7	17	$2,664	81,483	5,820	6
ENERGY STAR Qualified Room Air Conditioner	8	$256	7,062	785	1	2	$63	1,766	196	0
Geothermal Heat Pump	27	$63,444	7,031,692	351,585	13	20	$33,401	5,273,769	263,688	9
Air Source Heat Pump	8	$7,179	935,815	62,388	3	6	$5,056	640,496	42,700	1
Residential Contractor Rebates	20	$8,000				19	$4,821			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	9,000	$23,077	4,272,070	585,215	595	12,026	$23,569	4,881,424	668,688	92
Local CFL Rebate Program(s)	50	$130	23,734	3,251	3	10	$72	4,747	650	1
ENERGY STAR CFL/LED Fixtures	8	$82	17,457	873	0					
T8 or better Lighting Fixtures	28	$417	19,719	1,202	0	210	$4,061	226,943	13,838	2
ENERGY STAR LED lighting	120	$4,615	159,496	8,861	5	312	$5,875	414,689	23,038	14
ENERGY STAR Ceiling Fan	3	$58	8,987	499	0	1	$25	2,996	166	0
Exterior Lighting										
High Efficiency Exterior Lighting	50	$1,896	51,833	11,611	1	70	$2,233	153,687	34,929	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	60	$15,442	208,150	13,877	2	91	$20,900	321,174	21,412	3
Heat Pump Water Heater - (Add-On)	3	$1,154	57,364	5,736	1					
Heat Pump Water Heater - (Integrated)	9	$6,923	206,511	17,209	2	2	$1,469	45,891	3,824	0
Solar Water Heaters (w/ Electric auxiliary tank)	1	$449	22,284	1,857	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	72	$5,340	174,573	15,870	6	44	$3,375	116,091	10,554	4
ENERGY STAR Qualified Dishwasher	37	$1,186	47,547	4,322	3	21	$666	26,986	2,453	2
ENERGY STAR Qualified Refrigerator	72	$2,308	113,075	7,538	1	48	$1,523	75,384	5,026	1
ENERGY STAR Qualified Dehumidifier	33	$1,058	92,960	7,747	1	11	$349	30,987	2,582	0
ENERGY STAR Qualified Freezer	30	$962	33,228	2,215	0	20	$634	22,152	1,477	0
Appliance Recycling	15	$1,147	160,984	17,887	3	15	$1,202	149,825	16,647	3
Efficient Television	26	$1,333	51,578	4,298	1	19	$964	37,692	3,141	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	3	$1,923	99,189	3,306	1	3	$1,903	99,189	3,306	1
Advanced Lighting Package	6	$1,538	51,578	2,579	1					
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	20	$7,232	434,904	14,847	2	8	$3,351	217,158	7,239	1
Residential Total	**9,730**	**$160,482**	**14,382,777**	**1,152,773**	**652**	**12,975**	**$118,176**	**12,824,527**	**1,131,375**	**142**
Percentage of 5 year plan goal - Residential										

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
T.I.P. Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	1,000	$2,564	539,588	149,886	60	1,122	$2,198	508,558	141,266	9
High Efficiency Interior Lighting	2,000	$5,136	1,059,190	385,935	6	1,264	$37,591	2,400,377	375,059	45
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$224	10,299	687	0					
Geothermal Heat Pump										
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,538	370,239	24,683	2					
Agricultural										
Dairy Pre-coolers Incentive										
Dairy Heat Reclaimer										
Livestock Ventilation Fans	18	$2,113	94,983	7,915	2	31	$6,490	243,529	20,294	7
Ventilation Thermostat Controller	1	$32	2,711	226	0					
Circulating Fans --- BESS Lab Ratings	15	$704	59,315	4,943	2					
Efficient Livestock Waterers	6	$385	56,815	4,735						
Hog Farrowing - Heat Lamps (<= 175W)	30	$115	19,970	4,993						
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$64	3,990	399						
Hog Farrowing - Heat Lamp or Pad Controller	1	$64	7,736	472						
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**3,081**	**$12,940**	**2,224,837**	**584,872**	**72**	**2,417**	**$46,279**	**3,152,464**	**536,619**	**61**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
Industrial Interruptible Price	4	$195,000			2,784	4	$216,466			2,858
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I										
Energy Audit Services - Residential *	4	$2,000				9	$5,107			
IV. Educational & Research Programs										
Member Information and Education	6,200	$26,600				5,231	$7,471			
Peak Alert	6,200									
Living with Energy in Iowa	5,100	$22,950				5,231	$13,046			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,200	$14,337				5,231	$16,435			
TOTAL	**36,519**	**$434,309**	**16,607,614**	**1,737,645**	**3,508**	**31,098**	**$422,980**	**15,976,991**	**1,667,994**	**3,061**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate- regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Tri-County Electric Cooperative (TEC) was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of TEC and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant. TEC developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report", constituted the compilation of the required information for TEC and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including TEC.

TEC offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. TEC offers programs for residential

member- consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. TEC offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of TEC, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio (one ethanol plant), prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. TEC also offers incentives for energy audits for all member-consumers.

In addition to the rebate opportunities, TEC offers demand response programs that help us to be both environmentally and fiscally responsible. These programs are water heater load control, home heating and air conditioning load control, irrigation, low temperature grain drying and C&I load control. These optional incentive programs allow member-consumers to receive rebates for equipment and/or reduced energy rates and demand charges in exchange for our ability to curtail load during peak times.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, TEC is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. TEC publishes a newsletter once a month that includes energy efficiency tips and information to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. TEC consistently shares the energy efficiency message on our website, in our bill stuffers, on Facebook, at energy-fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to "get the facts" and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment - the cost to operate the product over its lifetime. A great example of this is a ground-source heat pump system for heating and air conditioning. While there is a premium over a conventional HVAC system upfront, the very low operating costs make is a very "energy wise" investment. As a member of the National Rural Electric Cooperative Association (NRECA), TEC has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which TEC participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local businesses to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for TEC. TEC has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Tri-County Electric Cooperative	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.						2	$220	4,476	1,439	320
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.						1	$300	117,815	31,416	7,854
Residential Lighting (low income included)											
Interior Lighting											
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	470	$1,175	224,696	85,595	30,780	149	$149	71,234	105,112	26,524
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	17	$213	11,760	1,856	717					
ENERGY STAR LED lighting	Rebate for LED lighting.	7	$18	9,371	1,339	521					
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	10	$188	17,135	10,839	3,613					
LED Holiday Lighting	Rebate for holiday lighting.	29	$290	27,040	6,371	2,253	2	$4	1,865	620	155
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	6	$1,500	33,267	7,393	2,218	1	$462	5,544	739	370
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	3	$1,125	69,331	11,555	5,778					
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	10	$13	33,367	11,122	3,707					
Flow Restrictors - Shower	Incentive for low-flow shower head.	10	$63	63,270	18,981	6,327					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.						8	$200	19,536	5,106	1,776
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	8	$250	10,354	2,471	941	4	$100	5,177	1,882	471
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	6	$188	9,491	1,687	633	7	$175	11,073	2,530	738
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	11	$206	31,209	7,329	2,601					
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	11	$344	12,271	2,305	818					
Appliance Recycling	Incentives for appliance recycling.	10	$500	89,361	29,787	9,929	3	$100	32,428	9,608	3,603
Smart Strip	Incentive for smart power supply strip.	5	$31	5,550	1,665	555					
Residential Total		**613**	**$6,101**	**647,470**	**200,296**	**71,391**	**177**	**$1,710**	**269,148**	**158,453**	**41,810**
Percentage of 5 year plan goal - Residential								**28%**	**42%**		**59%**

II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.						64	$23,296			
III. Energy Audit & Technical Support Programs											
IV. Educational & Research Programs											
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						364	$1,183			
TOTAL		**613**	**$6,101**	**647,470**	**200,296**	**71,391**	**605**	**$26,189**	**269,148**	**158,453**	**41,810**
Percentage of 5 year plan goal achieved								**429%**	**42%**		**59%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Tri-County Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning						1	120	2,238	160	0
Air Source Heat Pump										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	74	$185	35,378	4,846	4	60	$60	28,685	3,929	4
T8 or better Lighting Fixtures	2	$25	1,384	84	0					
ENERGY STAR LED lighting	1	$3	1,339	74	0					
Exterior Lighting										
High Efficiency Exterior Lighting	2	$38	3,427	723	0					
LED Holiday Lighting	5	$50	4,662	389	1					
Residential Water Heating (low income included)										
High Efficiency Water Heater	2	$500	11,089	739	0					
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	2	$3	6,673	741	0					
Flow Restrictors - Shower	2	$13	12,654	1,265	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer										
ENERGY STAR Qualified Dishwasher	1	$31	1,294	118	0	1	$25	1,294	118	0
ENERGY STAR Qualified Refrigerator	1	$31	1,582	105	0	2	$50	3,164	211	0
ENERGY STAR Qualified Dehumidifier	2	$38	5,674	473	0					
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0					
Appliance Recycling	2	$100	17,872	1,986	0	1	$50	10,809	1,201	0
Smart Strip	1	$6	1,110	111						
Residential Total	**99**	**$1,084**	**106,369**	**11,804**	**7**	**65**	**$305**	**46,189**	**5,619**	**5**
Percentage of 5 year plan goal - Residential										
II. Demand Response Programs										
Water Heater Load Control						64	$23,296			36
III. Energy Audit & Technical Support Programs										
IV. Educational & Research Programs										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						121	$224			
TOTAL	**99**	**$1,084**	**106,369**	**11,804**	**7**	**250**	**$23,825**	**46,189**	**5,619**	**40**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Tri-County Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning						1	$100	2,238	160	
Air Source Heat Pump						1	$300	117,815	7,854	1
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	83	$208	39,680	5,436	5	64	$64	30,597	20,957	4
T8 or better Lighting Fixtures	3	$38	2,075	127	0					
ENERGY STAR LED lighting	1	$3	1,339	74	0					
Exterior Lighting										
High Efficiency Exterior Lighting	2	$38	3,427	723	0					
LED Holiday Lighting	5	$50	4,662	389	1	2	$4	1,865	155	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	1	$250	5,544	370	0					
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	2	$3	6,673	741	0					
Flow Restrictors - Shower	2	$13	12,654	1,265	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer						3	$75	7,326	666	
ENERGY STAR Qualified Dishwasher	1	$31	1,294	118	0	2	$50	2,589	235	
ENERGY STAR Qualified Refrigerator	1	$31	1,582	105	0	2	$50	3,164	211	
ENERGY STAR Qualified Dehumidifier	2	$38	5,674	473	0					
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0					
Appliance Recycling	2	$100	17,872	1,986	0					
Smart Strip	1	$6	1,110	111						
Residential Total	**108**	**$869**	**105,819**	**12,066**	**7**	**75**	**$643**	**165,594**	**30,238**	**6**
Percentage of 5 year plan goal - Residential										

II. Demand Response Programs										
Water Heater Load Control										
III. Energy Audit & Technical Support Programs										
IV. Educational & Research Programs										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network							$224			
TOTAL	**108**	**$869**	**105,819**	**12,066**	**7**	**75**	**$867**	**165,594**	**30,238**	**6**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Tri-County Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning										
Air Source Heat Pump										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	94	$235	44,939	6,156	6					
T8 or better Lighting Fixtures	3	$38	2,075	127	0					
ENERGY STAR LED lighting	1	$3	1,339	74	0					
Exterior Lighting										
High Efficiency Exterior Lighting	2	$38	3,427	723	0					
LED Holiday Lighting	6	$60	5,594	466	2					
Residential Water Heating (low income included)										
High Efficiency Water Heater	1	$250	5,544	370	0					
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0					
Flow Restrictors - Faucet	2	$3	6,673	741	0					
Flow Restrictors - Shower	2	$13	12,654	1,265	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer						2	$50	4,884	444	
ENERGY STAR Qualified Dishwasher	2	$63	2,589	235	0	1	$25	1,294	118	
ENERGY STAR Qualified Refrigerator	1	$31	1,582	105	0	1	$25	1,582	105	
ENERGY STAR Qualified Dehumidifier	2	$38	5,674	473	0					
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0					
Appliance Recycling	2	$100	17,872	1,986	0					
Smart Strip	1	$6	1,110	111						
Residential Total	**122**	**$1,313**	**136,414**	**14,907**	**8**	**4**	**$100**	**7,760**	**667**	**0**
Percentage of 5 year plan goal - Residential										
II. Demand Response Programs										
Water Heater Load Control										
III. Energy Audit & Technical Support Programs										
IV. Educational & Research Programs										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network							$231			
TOTAL	**122**	**$1,313**	**136,414**	**14,907**	**8**	**4**	**$331**	**7,760**	**667**	**0**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Tri-County Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning										
Air Source Heat Pump										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	104	$260	49,720	6,811	6					
T8 or better Lighting Fixtures	4	$50	2,767	169	0					
ENERGY STAR LED lighting	2	$5	2,677	149	0					
Exterior Lighting										
High Efficiency Exterior Lighting	2	$38	3,427	723	0					
LED Holiday Lighting	6	$60	5,594	466	2					
Residential Water Heating (low income included)										
High Efficiency Water Heater	1	$250	5,544	370	0	1	$462	5,544	370	0
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0					
Flow Restrictors - Faucet	2	$3	6,673	741	0					
Flow Restrictors - Shower	2	$13	12,654	1,265	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer						2	$50	4,884	444	0
ENERGY STAR Qualified Dishwasher	2	$63	2,589	235	0					
ENERGY STAR Qualified Refrigerator	1	$31	1,582	105	0	1	$25	1,582	105	0
ENERGY STAR Qualified Dehumidifier	2	$38	5,674	473	0					
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0					
Appliance Recycling	2	$100	17,872	1,986	0	1	$25	10,809	1,201	0
Smart Strip	1	$6	1,110	111						
Residential Total	**134**	**$1,353**	**143,226**	**15,679**	**9**	**5**	**$562**	**22,819**	**2,120**	**0**
Percentage of 5 year plan goal - Residential										

II. Demand Response Programs										
Water Heater Load Control										
III. Energy Audit & Technical Support Programs										
IV. Educational & Research Programs										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						121	$244			
TOTAL	**134**	**$1,353**	**143,226**	**15,679**	**9**	**126**	**$806**	**22,819**	**2,120**	**0**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Tri-County Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning										
Air Source Heat Pump										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	115	$288	54,979	7,531	7	25	$25	11,952	1,637	2
T8 or better Lighting Fixtures	5	$63	3,459	211	0					
ENERGY STAR LED lighting	2	$5	2,677	149	0					
Exterior Lighting										
High Efficiency Exterior Lighting	2	$38	3,427	723	0					
LED Holiday Lighting	7	$70	6,527	544	2					
Residential Water Heating (low income included)										
High Efficiency Water Heater	1	$250	5,544	370	0					
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0					
Flow Restrictors - Faucet	2	$3	6,673	741	0					
Flow Restrictors - Shower	2	$13	12,654	1,265	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer						1	$25	2,442	222	0
ENERGY STAR Qualified Dishwasher	2	$63	2,589	235	0					
ENERGY STAR Qualified Refrigerator	2	$63	3,164	211	0	1	$25	1,582	105	0
ENERGY STAR Qualified Dehumidifier	3	$56	8,511	709	0					
ENERGY STAR Qualified Freezer	3	$94	3,347	223	0					
Appliance Recycling	2	$100	17,872	1,986	0	1	$25	10,809	1,201	0
Smart Strip	1	$6	1,110	111						
Residential Total	**150**	**$1,484**	**155,643**	**16,935**	**10**	**28**	**$100**	**26,785**	**3,166**	**2**
Percentage of 5 year plan goal - Residential										
II. Demand Response Programs										
Water Heater Load Control										
III. Energy Audit & Technical Support Programs										
IV. Educational & Research Programs										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						122	$260			
TOTAL	**150**	**$1,484**	**155,643**	**16,935**	**10**	**150**	**$360**	**26,785**	**3,166**	**2**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

United Electric Cooperative, Inc.

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In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy- efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. United Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of United Electric Cooperative and other cooperatives with Iowa members. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate- payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group (Associated Electric Cooperative) and were completed by a qualified independent third-party consultant.

United Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for United Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including United Electric Cooperative.

United Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. United Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment and water heaters. In addition, our residential

energy audit program identifies areas for improvement within the home and offers a number of direct install measures at the time of audit including low-flow showerheads, pipe wrap kits and demonstrations on caulking and sealing. United Electric Cooperative also offers prescriptive lighting incentives for small commercial member-consumers. For the large industrial member- consumers of United Electric Cooperative, we offer an energy audit program designed to highlight areas where large customers can reduce their energy use and costs. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom audit program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, United Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. United Electric Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. United Electric Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, on our Facebook page, at energy- fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime (for example, geothermal heat pumps typically have a high up-front capital cost, but have lower operating costs). As a member of the National Rural Electric Cooperative Association (NRECA), United Electric Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

The programs that we offer were reviewed or designed during the assessment of potential process in which United Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member- consumers we serve. From that assessment we developed programs that matched our member- consumers' energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take

advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for United Electric Cooperative. United Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
United Electric Cooperative, Inc.	**Measure Description**	**Projected Participants**	**Projected Cost**	**Cumulative Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**Participants**	**Cost to Cooperative**	**Measure Lifetime kWh Savings**	**Cumulative 5 Year Plan kWh Savings**	**Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.						2	$354	1,778	593	198
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.						20	$23,251	5,311,572	650,668	265,579
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	5	$12,190	589,077	117,815	39,272					
Residential Lighting (low income included)											
Interior Lighting											
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	40	$1,018	19,123	7,859	2,620	352	$925	168,283	104,585	23,052
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	15	$1,101	22,478	4,496	1,499	7	$639	24,242	5,773	1,616
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	15	$886	50,050	16,683	5,561					
Flow Restrictors - Shower	Incentive for low-flow shower head.	15	$2,051	94,905	28,472	9,491					
Tank Insulation	Incentive for water heater tank insulation.	15	$1,150	25,641	7,692	2,564					
Pipe Insulation	Incentive for water pipe insulation.	15	$462	26,723	5,345	1,782					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	50	$6,905	122,100	33,300	11,100	9	$1,044	16,153	6,691	1,469
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	35	$2,457	45,299	12,354	4,118	6	$601	7,766	3,059	706
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	105	$90,447	5,308,436	537,662	179,221					
Residential Total		**310**	**$118,665**	**6,303,832**	**771,678**	**257,226**	**396**	**$26,814**	**5,529,795**	**771,369**	**292,619**
Percentage of 5 year plan goal - Residential								**23%**	**88%**		**114%**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	10	$3,657	9,444	6,127	2,042					
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	5	$6,380	360,889	72,178	24,059					
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	5	$12,724	735,514	147,103	49,034					
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	5	$1,165	26,573	6,643	2,214					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	5	$25,877	1,498,500	299,700	99,900					
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	5	$5,318	276,806	55,361	18,454					
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	5	$18,319	1,110,216	195,921	65,307					
Ag, Commercial and Industrial Total		**40**	**$73,440**	**4,017,942**	**783,033**	**261,011**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**0%**	**0%**		**0%**
II. Demand Response Programs											
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	5	$1,000								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.						1	$5,218			
Energy Audit Services - Residential *	Energy Audit Services - Residential	20	$2,000				1	$500			
IV. Educational & Research Programs											
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						2,864	$5,356			
TOTAL		**375**	**$195,105**	**10,321,775**	**1,554,710**	**518,237**	**3,262**	**$37,889**	**5,529,795**	**771,369**	**292,619**
Percentage of 5 year plan goal achieved								**19%**	**54%**		**56%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
United Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Qualified Room Air Conditioner						1	$304	889	99	0
Geothermal Heat Pump						3	$9,938	796,736	39,837	5
Air Source Heat Pump	1	$2,438	117,815	7,854	1					
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	8	$204	3,825	524	0	214	$615	102,308	14,015	14
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$220	4,496	300	0	3	$413	10,390	693	0
Flow Restrictors - Faucet	3	$177	10,010	1,112	0					
Flow Restrictors - Shower	3	$410	18,981	1,898	0					
Tank Insulation	3	$230	5,128	513	0					
Pipe Insulation	3	$92	5,345	356	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	10	$1,381	24,420	2,220	1	5	$794	8,974	816	0
ENERGY STAR Qualified Dishwasher	7	$491	9,060	824	1	3	$413	3,883	353	0
Building Shell - Existing Home Only										
Weatherization Rebates	21	$18,089	1,061,687	35,844	2					
Residential Total	**62**	**$23,733**	**1,260,766**	**51,445**	**5**	**229**	**$12,477**	**923,180**	**55,812**	**20**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	2	$731	1,889	408	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	1	$5,175	299,700	19,980	4					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag, Commercial and Industrial Total	**8**	**$14,688**	**803,588**	**52,202**	**12**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200								
Expert Energy Services - C&I						1	$5,218			
Energy Audit Services - Residential *	4	$400								
IV. Educational & Research Programs										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						551	$1,157			
TOTAL	**75**	**$39,021**	**2,064,355**	**103,647**	**17**	**781**	**$18,853**	**923,180**	**55,812**	**20**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
United Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Qualified Room Air Conditioner										
Geothermal Heat Pump						3	$2,813	796,736	39,837	5
Air Source Heat Pump	1	$2,438	117,815	7,854	1					
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	8	$204	3,825	524	0	113	$254	54,023	7,400	8
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$220	4,496	300	0	1	$63	3,463	231	
Flow Restrictors - Faucet	3	$177	10,010	1,112	0					
Flow Restrictors - Shower	3	$410	18,981	1,898	0					
Tank Insulation	3	$230	5,128	513	0					
Pipe Insulation	3	$92	5,345	356	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	10	$1,381	24,420	2,220	1	4	$250	7,179	653	
ENERGY STAR Qualified Dishwasher	7	$491	9,060	824	1	2	$125	2,589	235	
Building Shell - Existing Home Only										
Weatherization Rebates	21	$18,089	1,061,687	35,844	2					
Residential Total	**62**	**$23,733**	**1,260,766**	**51,445**	**5**	**123**	**$3,505**	**863,990**	**48,356**	**13**
Percentage of 5 year plan goal - Residential										

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	2	$731	1,889	408	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	1	$5,175	299,700	19,980	4					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag, Commercial and Industrial Total	**8**	**$14,688**	**803,588**	**52,202**	**12**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200								
Expert Energy Services - C&I										
Energy Audit Services - Residential *	4	$400								
IV. Educational & Research Programs										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						549	$978			
TOTAL	**75**	**$39,021**	**2,064,355**	**103,647**	**17**	**672**	**$4,483**	**863,990**	**48,356**	**13**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
United Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Qualified Room Air Conditioner										
Geothermal Heat Pump										
Air Source Heat Pump	1	$2,438	117,815	7,854	1					
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	8	$204	3,825	524	0	25	$56	11,952	1,637	
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$220	4,496	300	0	1	$63	3,463	231	
Flow Restrictors - Faucet	3	$177	10,010	1,112	0					
Flow Restrictors - Shower	3	$410	18,981	1,898	0					
Tank Insulation	3	$230	5,128	513	0					
Pipe Insulation	3	$92	5,345	356	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	10	$1,381	24,420	2,220	1					
ENERGY STAR Qualified Dishwasher	7	$491	9,060	824	1	1	$63	1,294	118	
Building Shell - Existing Home Only										
Weatherization Rebates	21	$18,089	1,061,687	35,844	2					
Residential Total	**62**	**$23,733**	**1,260,766**	**51,445**	**5**	**27**	**$182**	**16,709**	**1,986**	**0**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	2	$731	1,889	408	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	1	$5,175	299,700	19,980	4					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag, Commercial and Industrial Total	**8**	**$14,688**	**803,588**	**52,202**	**12**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200								
Expert Energy Services - C&I										
Energy Audit Services - Residential *	4	$400								
IV. Educational & Research Programs										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						659	$933			
TOTAL	**75**	**$39,021**	**2,064,355**	**103,647**	**17**	**686**	**$1,115**	**16,709**	**1,986**	**0**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
United Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Qualified Room Air Conditioner										
Geothermal Heat Pump						8	$6,000	2,124,629	106,231	14
Air Source Heat Pump	1	$2,438	117,815	7,854	1					
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	8	$204	3,825	524	0					
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$220	4,496	300	0	1	$50	3,463	231	0
Flow Restrictors - Faucet	3	$177	10,010	1,112	0					
Flow Restrictors - Shower	3	$410	18,981	1,898	0					
Tank Insulation	3	$230	5,128	513	0					
Pipe Insulation	3	$92	5,345	356	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	10	$1,381	24,420	2,220	1					
ENERGY STAR Qualified Dishwasher	7	$491	9,060	824	1					
Building Shell - Existing Home Only										
Weatherization Rebates	21	$18,089	1,061,687	35,844	2					
Residential Total	**62**	**$23,733**	**1,260,766**	**51,445**	**5**	**9**	**$6,050**	**2,128,092**	**106,462**	**14**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	2	$731	1,889	408	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	1	$5,175	299,700	19,980	4					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag, Commercial and Industrial Total	**8**	**$14,688**	**803,588**	**52,202**	**12**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200								
Expert Energy Services - C&I										
Energy Audit Services - Residential *	4	$400				1	$500			
IV. Educational & Research Programs										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						547	$1,149			
TOTAL	**75**	**$39,021**	**2,064,355**	**103,647**	**17**	**557**	**$7,699**	**2,128,092**	**106,462**	**14**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
United Electric Cooperative, Inc.	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Qualified Room Air Conditioner						1	$50	889	99	0
Geothermal Heat Pump						6	$4,500	1,593,472	79,674	10
Air Source Heat Pump	1	$2,438	117,815	7,854	1					
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	8	$204	3,825	524	0					
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$220	4,496	300	0	1	$50	3,463	231	0
Flow Restrictors - Faucet	3	$177	10,010	1,112	0					
Flow Restrictors - Shower	3	$410	18,981	1,898	0					
Tank Insulation	3	$230	5,128	513	0					
Pipe Insulation	3	$92	5,345	356	0					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	10	$1,381	24,420	2,220	1					
ENERGY STAR Qualified Dishwasher	7	$491	9,060	824	1					
Building Shell - Existing Home Only										
Weatherization Rebates	21	$18,089	1,061,687	35,844	2					
Residential Total	**62**	**$23,733**	**1,260,766**	**51,445**	**5**	**8**	**$4,600**	**1,597,824**	**80,003**	**10**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	2	$731	1,889	408	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1					
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5					
Livestock Ventilation Fans	1	$233	5,315	443	0					
Circulating Fans --- BESS Lab Ratings	1	$5,175	299,700	19,980	4					
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0					
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1					
Ag, Commercial and Industrial Total	**8**	**$14,688**	**803,588**	**52,202**	**12**	**0**	**$0**	**0**	**0**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200								
Expert Energy Services - C&I										
Energy Audit Services - Residential *	4	$400								
IV. Educational & Research Programs										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network						558	$1,139			
TOTAL	**75**	**$39,021**	**2,064,355**	**103,647**	**17**	**566**	**$5,739**	**1,597,824**	**80,003**	**10**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan. 1, 2009. The legislation provided that, "individual utilities or groups of utilities may collaborate in conducting the studies required . . . and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Western Iowa Power Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for determining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan. 1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Western Iowa Power Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy-efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Western Iowa Power Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Western Iowa Power Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Western Iowa Power Cooperative.

Western Iowa Power Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Western Iowa Power Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Western Iowa Power Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Western Iowa Power

Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Western Iowa Power Cooperative also offers energy audits for all member-consumers.

In addition to the rebate opportunities, Western Iowa Power Cooperative offers three demand response programs that help us to be both environmentally and fiscally responsible. These programs are water heater, electric heat and air conditioning load control. These optional incentive programs allow member-consumers to receive a lower electric bill in exchange for our ability to curtail load during peak electrical times.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Western Iowa Power Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Western Iowa Power Cooperative publishes a newsletter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more affordable do-it-yourself ideas. Western Iowa Power Cooperative consistently shares the energy efficiency message on our website, in our bill stuffers, at county fairs and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Western Iowa Power Cooperative has access to the Cooperative Research Network (CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Western Iowa Power Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers' energy usage. We also worked with local business to

leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Western Iowa Power Cooperative. Western Iowa Power Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results				
Western Iowa Power Cooperative	Measure Description	Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	50	$9,468	206,589	38,709	14,756	37	$7,050	166,137	41,523	11,867
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	60	$1,839	47,353	14,030	5,261	27	$1,013	21,309	7,367	2,368
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	64	$157,879	16,997,030	2,350,371	849,852	132	$403,000	35,056,376	5,484,198	1,752,819
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	373	$279,544	43,945,144	8,734,048	2,929,676	141	$96,600	16,611,972	3,424,501	1,107,465
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	17,364	$39,069	8,301,329	3,023,084	1,137,168	1,835	$4,662	877,271	185,926	120,174
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.						8,978	$23,962	4,292,176	2,279,705	587,969
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.						1,076	$15,458	744,325	103,427	45,386
ENERGY STAR LED lighting	Rebate for LED lighting.						51	$285	68,272	3,793	3,793
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)						7	$81	4,238	2,017	784
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	508	$126,954	2,471,093	491,169	164,740	330	$104,007	1,352,146	274,750	90,143
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	410	$4,345	1,368,031	456,010	152,003	320	$675	1,067,732	296,591	118,636
Flow Restrictors - Shower	Incentive for low-flow shower head.	205	$2,170	1,297,035	389,111	129,704	160	$301	1,012,320	253,080	101,232
Tank Insulation	Incentive for water heater tank insulation.	205	$2,170	350,427	105,128	35,043					
Pipe Insulation	Incentive for water pipe insulation.	205	$2,170	365,218	73,044	24,348	35	$105	62,354	16,628	4,157
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	55	$3,479	134,310	32,190	12,210	247	$18,526	769,047	217,102	69,914
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	341	$10,671	441,343	106,482	40,122	123	$4,614	159,193	42,358	14,472
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	276	$8,616	436,563	76,979	29,104	235	$8,813	371,711	74,447	24,781
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	410	$12,794	457,376	80,840	30,492	67	$2,514	74,742	14,057	4,983
Appliance Recycling	Incentives for appliance recycling.	587	$35,191	5,184,367	1,721,805	576,722	142	$10,188	1,141,465	360,930	128,532
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	142	$6,054	1,444,114	464,422	160,457	1,060	$24,586	10,780,010	4,084,877	1,197,779
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	167	$104,105	7,629,829	636,581	254,328	97	$52,372	4,386,809	390,134	146,227
Residential Total		**21,422**	**$806,518**	**91,077,150**	**18,794,003**	**6,545,985**	**15,100**	**$778,810**	**79,019,606**	**17,557,409**	**5,533,481**
Percentage of 5 year plan goal - Residential								**97%**	**87%**		**85%**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	2,072	$4,141	1,126,041	831,639	312,789					
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	4,214	$9,137	3,960,164	2,279,454	856,083	192	$6,548	271,775	123,538	40,739
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	5	$11,870	86,802	13,020	4,340	36	$21,600	624,974	62,497	31,249
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	15	$10,575	392,607	78,521	26,174					
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	35	$6,955	194,056	38,811	12,937	1	$300	3,463	693	231
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	490	$195,080	5,237,757	1,047,551	349,184	1,519	$126,150	28,734,483	5,762,465	1,915,632
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	155	$9,240	57,798,477	11,559,695	3,853,232	100	$58,800	12,180,641	1,599,227	812,043
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program							1	$22,590	4,215,859	1,405,286	281,057
Ag, Commercial and Industrial Total		**6,986**	**$246,998**	**68,795,903**	**15,848,692**	**5,414,739**	**1,849**	**$235,988**	**46,031,195**	**8,953,707**	**3,080,950**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**96%**	**67%**		**57%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	10,450	$754,277				9,442	$1,224,699			
Air Conditioning Load Control	Load control for air conditioning	7,620	$523,393				6,758	$879,703			
Space Heating Load Control (Interruptible)	Load control for space heating.	7,374	$513,685				1,217	$96,755			
Dual-Fuel Space Heating	Duel fuel space heating	615	$51,917				123	$9,779			
Irrigation											
Time of Use Pricing	Irrigation time of use prices.						145	$16,983			
Load Control	Irrigation load control.	1,710	$138,024				1,600	$213,848			
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price						1	$129			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	50	$10,000								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	25	$7,500				30	$6,325			
Energy Audit Services - Residential *	Energy Audit Services - Residential	125	$35,000								
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	17,950	$24,000				17,448	$141,420			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	17,600	$115,896				17,448	$52,753			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$55,500				17,448	$64,619			
TOTAL		**91,927**	**$3,282,707**	**159,873,054**	**34,642,695**	**11,960,724**	**88,609**	**$3,721,813**	**125,050,801**	**26,511,116**	**8,614,431**
Percentage of 5 year plan goal achieved								**113%**	**78%**		**72%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Western Iowa Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	6	$1,234	25,455	1,818	2	14	2,175	65,796	4,700	6
ENERGY STAR Qualified Room Air Conditioner	8	$242	6,314	702	1	3	$113	2,368	263	0
Geothermal Heat Pump	10	$24,689	2,655,786	132,789	15	27	$79,800	7,170,622	358,531	46
Air Source Heat Pump	73	$54,748	8,600,524	573,368	74	26	$19,200	3,063,200	204,213	29
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,293	$5,160	1,096,231	150,169	138	251	$813	119,997	16,438	17
Local CFL Rebate Program(s)						2,546	$6,359	1,217,184	166,738	170
T8 or better Lighting Fixtures										
ENERGY STAR LED lighting										
Exterior Lighting										
High Efficiency Exterior Lighting										
Residential Water Heating (low income included)										
High Efficiency Water Heater	100	$24,928	485,764	32,384	4	66	$19,800	228,571	15,238	2
Flow Restrictors - Faucet	82	$869	273,606	30,401	2					
Flow Restrictors - Shower	41	$434	259,407	25,941	2					
Tank Insulation	41	$434	70,085	7,009	0					
Pipe Insulation	41	$434	73,044	4,870	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	7	$455	17,094	1,554	1	52	$3,900	161,905	14,719	6
ENERGY STAR Qualified Dishwasher	45	$1,394	58,242	5,295	4	21	$788	27,179	2,471	2
ENERGY STAR Qualified Refrigerator	36	$1,126	56,943	3,796	0	44	$1,650	69,597	4,640	0
ENERGY STAR Qualified Freezer	54	$1,674	60,240	4,016	1	10	$375	11,156	744	0
Appliance Recycling	116	$6,949	1,023,988	113,913	19	24	$900	151,495	17,514	6
Additional Low Income										
Energy Efficiency Kits	25	$1,066	254,246	28,250	3	175	$5,909	1,779,719	197,747	25
Building Shell - Existing Home Only										
Weatherization Rebates	17	$10,601	776,689	25,890	2	11	$6,917	491,575	16,386	1
Residential Total	**2,995**	**$136,437**	**15,793,656**	**1,142,162**	**270**	**3,270**	**$148,697**	**14,560,364**	**1,020,340**	**311**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	274	$547	148,907	41,363	16					
High Efficiency Interior Lighting	562	$1,265	526,849	113,866	2	28	$3,867	36,838	5,825	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$2,374	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	3	$2,115	78,521	5,235	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	7	$1,391	38,811	2,587	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	98	$39,016	1,047,551	69,837	9					
Variable Speed Drive Motor Incentive	31	$1,848	11,559,695	770,646	67					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program						1	$22,590	4,215,859	281,057	27
Ag, Commercial and Industrial Total	**976**	**$48,556**	**13,417,695**	**1,004,402**	**94**	**29**	**$26,457**	**4,252,697**	**286,883**	**27**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	1,887	$142,071			944	1,787	$142,071			992
Air Conditioning Load Control	1,329	$98,583			930	1,240	$98,583			963
Space Heating Load Control (Interruptible)	1,300	$96,755			5,850	1,217	$96,755			6,079
Dual-Fuel Space Heating	123	$9,779			738	123	$9,779			819
Irrigation										
Time of Use Pricing										
Load Control	332	$25,997			2,191	327	$25,997			2,396
Commercial and Industrial Time-of-Day Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$2,000								
Expert Energy Services - C&I	5	$1,500								
Energy Audit Services - Residential *	25	$2,500								
IV. Educational & Research Programs										
Member Information and Education	3,580	$4,200				3,566	$32,563			
Living with Energy in Iowa	3,500	$22,596				3,566	$9,897			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,900				3,566	$11,157			
TOTAL	**16,062**	**$601,875**	**29,211,352**	**2,146,565**	**11,017**	**18,691**	**$601,957**	**18,813,060**	**1,307,222**	**11,587**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Western Iowa Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,560	32,556	2,325	3	5	$1,350	23,232	1,660	2
ENERGY STAR Qualified Room Air Conditioner	10	$304	7,892	877	1	8	$300	6,314	702	1
Geothermal Heat Pump	11	$28,122	2,921,365	146,068	17	31	$87,900	8,232,937	411,647	53
Air Source Heat Pump	74	$55,432	8,718,340	581,223	75	30	$22,200	3,534,462	235,631	34
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,877	$6,473	1,375,428	188,415	173					
Local CFL Rebate Program(s)						3,072	$8,061	1,468,653	201,185	205
T8 or better Lighting Fixtures						16	$2,342	11,068	675	
ENERGY STAR LED lighting										
Exterior Lighting										
High Efficiency Exterior Lighting										
Residential Water Heating (low income included)										
High Efficiency Water Heater	101	$25,191	491,308	32,754	4	71	$21,000	310,406	20,694	3
Flow Restrictors - Faucet	82	$869	273,606	30,401	2	80	$150	266,933	29,659	2
Flow Restrictors - Shower	41	$434	259,407	25,941	2	40	$75	253,080	25,308	2
Tank Insulation	41	$434	70,085	7,009	0					
Pipe Insulation	41	$434	73,044	4,870	1	35	$105	62,354	4,157	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	9	$574	21,978	1,998	1	50	$3,750	155,678	14,153	6
ENERGY STAR Qualified Dishwasher	56	$1,760	72,479	6,589	5	21	$788	27,179	2,471	2
ENERGY STAR Qualified Refrigerator	45	$1,421	71,179	4,745	0	52	$1,950	82,251	5,483	1
ENERGY STAR Qualified Freezer	67	$2,111	74,742	4,983	1	10	$375	11,156	744	
Appliance Recycling	116	$6,993	1,023,988	113,913	19	31	$1,088	278,891	30,988	5
Additional Low Income										
Energy Efficiency Kits	27	$1,151	274,585	30,509	4	335	$7,574	3,406,890	378,543	48
Building Shell - Existing Home Only										
Weatherization Rebates	25	$15,648	1,142,190	38,073	3	22	$15,233	991,141	33,038	3
Residential Total	**3,631**	**$148,911**	**16,904,171**	**1,220,691**	**310**	**3,909**	**$174,241**	**19,122,625**	**1,396,738**	**368**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	343	$686	186,405	51,779	21					
High Efficiency Interior Lighting	700	$1,543	657,174	142,051	2					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$2,374	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	3	$2,115	78,521	5,235	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	7	$1,391	38,811	2,587	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	98	$39,016	1,047,551	69,837	9	30	$12,500	4,503,395	300,226	62
Variable Speed Drive Motor Incentive	31	$1,848	11,559,695	770,646	67					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**1,183**	**$48,973**	**13,585,519**	**1,043,004**	**99**	**30**	**$12,500**	**4,503,395**	**300,226**	**62**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	1,988	$146,334			994	1,888	$200,717			1,048
Air Conditioning Load Control	1,422	$101,541			995	1,360	$144,584			1,057
Space Heating Load Control (Interruptible)	1,385	$99,658			6,233					
Dual-Fuel Space Heating	123	$10,072			738					
Irrigation										
Time of Use Pricing						130	$13,821			
Load Control	337	$26,777			2,224	183	$19,455			1,341
Commercial and Industrial Time-of-Day Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$2,000								
Expert Energy Services - C&I	5	$1,500								
Energy Audit Services - Residential *	25	$25,000								
IV. Educational & Research Programs										
Member Information and Education	3,585	$4,500				3,434	$26,943			
Living with Energy in Iowa	3,510	$22,800				3,434	$10,539			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$11,000				3,434	$11,487			
TOTAL	**17,204**	**$649,066**	**30,489,690**	**2,263,695**	**11,593**	**17,802**	**$614,287**	**23,626,020**	**1,696,964**	**3,876**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Western Iowa Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	11	$1,892	45,284	3,235	3	6	1,350	28,857	2,061	2
ENERGY STAR Qualified Room Air Conditioner	12	$367	9,471	1,052	1	9	$337	7,103	789	1
Geothermal Heat Pump	13	$31,592	3,452,522	172,626	20	26	$77,400	6,905,044	345,252	44
Air Source Heat Pump	75	$56,046	8,836,155	589,077	77	42	$32,400	4,948,247	329,883	48
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	3,469	$7,805	1,658,449	227,185	208					
Local CFL Rebate Program(s)						3,072	$8,842	1,468,653	201,185	205
T8 or better Lighting Fixtures						598	$4,726	413,668	25,224	7
ENERGY STAR LED lighting										
Exterior Lighting										
High Efficiency Exterior Lighting						4	$13	2,422	448	
Residential Water Heating (low income included)										
High Efficiency Water Heater	101	$25,432	491,308	32,754	4	78	$23,100	340,892	22,726	3
Flow Restrictors - Faucet	82	$869	273,606	30,401	2	80	$150	266,933	29,659	2
Flow Restrictors - Shower	41	$434	259,407	25,941	2	40	$76	253,080	25,308	2
Tank Insulation	41	$434	70,085	7,009	0					
Pipe Insulation	41	$434	73,044	4,870	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	11	$695	26,862	2,442	1	57	$4,276	177,472	16,134	6
ENERGY STAR Qualified Dishwasher	68	$2,131	88,010	8,001	6	32	$1,200	41,416	3,765	3
ENERGY STAR Qualified Refrigerator	55	$1,721	86,996	5,800	1	48	$1,800	75,924	5,062	1
ENERGY STAR Qualified Freezer	82	$2,555	91,475	6,098	1	22	$826	24,542	1,636	
Appliance Recycling	118	$7,038	1,041,860	115,898	20	20	$752	153,534	17,332	4
Additional Low Income										
Energy Efficiency Kits	29	$1,236	294,925	32,769	4	400	$8,202	4,067,928	451,992	58
Building Shell - Existing Home Only										
Weatherization Rebates	33	$20,753	1,507,691	50,256	4	17	$10,906	764,702	25,490	2
Residential Total	**4,282**	**$161,434**	**18,307,149**	**1,315,413**	**354**	**4,551**	**$176,356**	**19,940,417**	**1,503,946**	**388**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	414	$827	224,991	62,497	25					
High Efficiency Interior Lighting	842	$1,825	791,277	171,053	2	113	$615	157,339	24,584	
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$2,374	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	3	$2,115	78,521	5,235	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	7	$1,391	38,811	2,587	0	1	$300	3,463	231	
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	98	$39,016	1,047,551	69,837	9	3	$64,820	21,328,550	1,421,903	1,421
Variable Speed Drive Motor Incentive	31	$1,848	11,559,695	770,646	67					
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**1,396**	**$49,396**	**13,758,208**	**1,082,724**	**103**	**117**	**$65,735**	**21,489,352**	**1,446,718**	**1,421**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	2,089	$150,724			1,045	1,861	$215,777			1,033
Air Conditioning Load Control	1,521	$104,587			1,065	1,326	$153,745			1,030
Space Heating Load Control (Interruptible)	1,473	$102,647			6,629					
Dual-Fuel Space Heating	123	$10,374			738					
Irrigation										
Time of Use Pricing										
Load Control	342	$27,581			2,257	327	$37,915			2,396
Commercial and Industrial Time-of-Day Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$2,000								
Expert Energy Services - C&I	5	$1,500								
Energy Audit Services - Residential *	25	$2,500								
IV. Educational & Research Programs										
Member Information and Education	3,590	$4,800				3,482	$11,882			
Living with Energy in Iowa	3,520	$23,100				3,482	$9,998			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$11,100				3,482	$12,635			
TOTAL	**18,376**	**$651,743**	**32,065,357**	**2,398,137**	**12,191**	**18,628**	**$684,043**	**41,429,769**	**2,950,664**	**6,268**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Western Iowa Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	11	$2,219	45,284	3,235	3	6	$1,275	24,569	1,755	2
ENERGY STAR Qualified Room Air Conditioner	14	$431	11,049	1,228	1	3	$113	2,368	263	0
Geothermal Heat Pump	14	$34,936	3,718,100	185,905	22	28	$96,000	7,436,201	371,810	48
Air Source Heat Pump	75	$56,342	8,836,155	589,077	77	17	$13,950	2,002,862	133,524	19
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	4,056	$9,125	1,939,080	265,627	243					
Local CFL Rebate Program(s)						288	$700	137,686	18,861	19
T8 or better Lighting Fixtures						132	$6,051	91,311	5,568	1
ENERGY STAR LED lighting										
Exterior Lighting										
High Efficiency Exterior Lighting						3	$68	1,816	336	
Residential Water Heating (low income included)										
High Efficiency Water Heater	102	$25,576	496,853	33,124	4	56	$16,800	241,808	16,121	2
Flow Restrictors - Faucet	82	$869	273,606	30,401	2	80	$150	266,933	29,659	2
Flow Restrictors - Shower	41	$434	259,407	25,941	2	40	$75	253,080	25,308	2
Tank Insulation	41	$434	70,085	7,009	0					
Pipe Insulation	41	$434	73,044	4,870	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	13	$815	31,746	2,886	1	48	$3,600	149,450	13,586	5
ENERGY STAR Qualified Dishwasher	80	$2,501	103,541	9,413	7	26	$975	33,651	3,059	3
ENERGY STAR Qualified Refrigerator	65	$2,019	102,814	6,854	1	43	$1,613	68,015	4,534	0
ENERGY STAR Qualified Freezer	96	$2,998	107,093	7,140	1	8	$300	8,924	595	0
Appliance Recycling	118	$7,082	1,041,860	115,898	20	35	$2,888	309,374	34,715	7
Additional Low Income										
Energy Efficiency Kits	30	$1,279	305,095	33,899	4	50	$967	508,491	56,499	7
Building Shell - Existing Home Only										
Weatherization Rebates	42	$25,929	1,918,879	63,963	5	19	$8,711	848,084	28,269	3
Residential Total	**4,921**	**$173,423**	**19,333,691**	**1,386,468**	**394**	**882**	**$154,236**	**12,384,623**	**744,464**	**122**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	484	$967	263,033	73,065	29					
High Efficiency Interior Lighting	982	$2,105	923,492	199,647	3	51	$2,066	77,598	10,330	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$2,374	17,360	868	0	36	$21,600	624,974	31,249	5
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	3	$2,115	78,521	5,235	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	7	$1,391	38,811	2,587	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	98	$39,016	1,047,551	69,837	9	965	$17,600	1,535,248	102,350	21
Variable Speed Drive Motor Incentive	31	$1,848	11,559,695	770,646	67	70	$57,000	11,807,764	787,184	787
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**1,606**	**$49,816**	**13,928,464**	**1,121,885**	**108**	**1,122**	**$98,266**	**14,045,585**	**931,113**	**813**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	2,191	$155,245			1,096	1,932	$249,972			1,072
Air Conditioning Load Control	1,621	$107,725			1,135	1,403	$181,527			1,090
Space Heating Load Control (Interruptible)	1,562	$105,727			7,029					
Dual-Fuel Space Heating	123	$10,686			738					
Irrigation										
Time of Use Pricing										
Load Control	347	$28,408			2,290	373	$48,261			2,733
Commercial and Industrial Time-of-Day Price						1	$129			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$2,000								
Expert Energy Services - C&I	5	$1,500								
Energy Audit Services - Residential *	25	$2,500								
IV. Educational & Research Programs										
Member Information and Education	3,595	$5,100				3,499	$24,659			
Living with Energy in Iowa	3,530	$23,400				3,499	$15,926			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$11,200				3,499	$14,949			
TOTAL	**19,536**	**$676,729**	**33,262,155**	**2,508,352**	**12,789**	**16,210**	**$787,925**	**26,430,208**	**1,675,576**	**5,830**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Western Iowa Power Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	14	$2,563	58,011	4,144	4	6	$900	23,683	1,692	2
ENERGY STAR Qualified Room Air Conditioner	16	$495	12,627	1,403	1	4	$150	3,157	351	0
Geothermal Heat Pump	16	$38,540	4,249,258	212,463	25	20	$61,900	5,311,572	265,579	34
Air Source Heat Pump	76	$56,976	8,953,970	596,931	78	26	$8,850	3,063,200	204,213	29
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	4,669	$10,506	2,232,142	305,773	280	1,584	$3,849	757,274	103,736	105
Local CFL Rebate Program(s)										
T8 or better Lighting Fixtures						330	$2,339	228,278	13,919	4
ENERGY STAR LED lighting						51	$285	68,272	3,793	2
Exterior Lighting										
High Efficiency Exterior Lighting										
Residential Water Heating (low income included)										
High Efficiency Water Heater	104	$25,827	505,860	33,724	5	59	$23,307	230,469	15,365	2
Flow Restrictors - Faucet	82	$869	273,606	30,401	2	80	$225	266,933	29,659	2
Flow Restrictors - Shower	41	$434	259,407	25,941	2	40	$75	253,080	25,308	2
Tank Insulation	41	$434	70,085	7,009	0					
Pipe Insulation	41	$434	73,044	4,870	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	15	$940	36,630	3,330	1	40	$3,000	124,542	11,322	4
ENERGY STAR Qualified Dishwasher	92	$2,885	119,072	10,825	8	23	$863	29,768	2,706	2
ENERGY STAR Qualified Refrigerator	75	$2,329	118,631	7,909	1	48	$1,800	75,924	5,062	1
ENERGY STAR Qualified Freezer	111	$3,456	123,826	8,255	1	17	$638	18,964	1,264	0
Appliance Recycling	119	$7,129	1,052,670	117,099	20	32	$4,560	248,172	27,983	7
Additional Low Income										
Energy Efficiency Kits	31	$1,322	315,264	35,029	4	100	$1,934	1,016,982	112,998	14
Building Shell - Existing Home Only										
Weatherization Rebates	50	$31,174	2,284,380	76,146	6	28	$10,605	1,291,307	43,044	3
Residential Total	**5,593**	**$186,313**	**20,738,483**	**1,481,251**	**439**	**2,488**	**$125,280**	**13,011,577**	**867,993**	**216**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	557	$1,114	302,705	84,085	33					
High Efficiency Interior Lighting	1,128	$2,399	1,061,372	229,466	3					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$2,374	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	3	$2,115	78,521	5,235	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	7	$1,391	38,811	2,587	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	98	$39,016	1,047,551	69,837	9	521	$31,230	1,367,290	91,153	19
Variable Speed Drive Motor Incentive	31	$1,848	11,559,695	770,646	67	30	$1,800	372,877	24,858	25
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**1,825**	**$50,257**	**14,106,017**	**1,162,724**	**113**	**551**	**$33,030**	**1,740,166**	**116,011**	**44**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	2,295	$159,903			1,148	1,974	$416,162			1,096
Air Conditioning Load Control	1,727	$110,957			1,209	1,429	$301,264			1,110
Space Heating Load Control (Interruptible)	1,654	$108,898			7,443					
Dual-Fuel Space Heating	123	$11,006			738					
Irrigation										
Time of Use Pricing						15	$3,162			
Load Control	352	$29,260			2,323	390	$82,220			2,857
Commercial and Industrial Time-of-Day Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$2,000								
Expert Energy Services - C&I	5	$1,500				30	$6,325			
Energy Audit Services - Residential *	25	$2,500								
IV. Educational & Research Programs										
Member Information and Education	3,600	$5,400				3,467	$45,373			
Living with Energy in Iowa	3,540	$24,000				3,467	$6,394			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$11,300				3,467	$14,391			
TOTAL	**20,749**	**$703,294**	**34,844,500**	**2,643,974**	**13,412**	**17,278**	**$1,033,601**	**14,751,744**	**984,004**	**5,322**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

WOODBURY

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In 2008, the Iowa Legislature passed Senate File 2386. This legislation, in part, specified procedures for assessing the potential of energy and capacity savings and developing energy-efficiency goals for gas and electric utilities not required to be rate-regulated by the Iowa Utilities Board ("Board"). This Senate File required this assessment of potential to begin by July 1, 2008. A progress report was required to be filed with the Board on or before Jan.1, 2009. The legislation pro- vided that, "individual utilities or groups of utilities may collaborate in conducting the studies required and may file a joint report or reports with the Board."

The Iowa Association of Electric Cooperatives (IAEC) filed a Joint Progress Report on Dec. 31, 2008 with the Board and the Iowa Attorney General's Office of Consumer Advocate. Woodbury County Rural Electric Cooperative was included as a part of this filing. This filing among other things explained the assessment of potential process, the process for deter- mining cost-effectiveness, goals and anticipated timelines.

The Senate File also required a final report to be filed with the Board on or before Jan.1, 2010. This filing was made by the IAEC on or about December 31, 2009 on behalf of Woodbury County Rural Electric Cooperative and other cooperatives. The filing included an executive summary, as well as each participating electric cooperative's cost effective energy- efficiency goal. For each measure intended to be utilized by the cooperative in meeting its goal, the measure's description, projected costs and the analysis of the measure's cost effectiveness was included in the report. The cost-effectiveness tests were performed in accordance with section 476.6, subsection 13. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant.

Woodbury County Rural Electric Cooperative developed a cost-effective energy efficiency plan comprised of various efficiency programs to meet the needs of each type of our member-consumers. The IAEC's "Electric Cooperatives' Joint Final Report" constituted the compilation of the required information for Woodbury County Rural Electric Cooperative and included information for each individual electric cooperative. The IAEC facilitated the compilation of this information; but the goals were set by the governing bodies of each participating cooperative, including Woodbury County Rural Electric Cooperative.

Woodbury County Rural Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Woodbury County Rural Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on lighting, heating and cooling equipment, water heaters and appliances. Woodbury County Rural Electric Cooperative offers similar programs for the small commercial member-consumers but alters them to allow for equipment used in a commercial setting. For the large industrial member-consumers of Woodbury County Rural Electric Cooperative, we offer a custom rebate program. Due to the low number of large industrial member-consumers in our portfolio, prescriptive rebates are a challenge to design because each is unique. Providing a custom rebate program for the large industrial member-consumers allows us to work directly with the member-consumer to determine what measures would offer the best savings in energy efficiency. It also allows us to customize the rebate to meet both the needs of the cooperative and the member-consumer. Woodbury County Rural Electric Cooperative also offers energy audits for all member-consumers.

In addition to the rebate opportunities, Woodbury County Rural Electric Cooperative offers demand response programs that help us to be both environmentally and fiscally responsible. These programs offer load control on water heaters, heating/cooling equipment, irrigation motors and electrically heated grain dryers.

One of the seven core principles cooperatives follow is to provide education and training to our members, elected representatives, managers, and employees so they can contribute effectively to the development of their cooperatives. To that end, Woodbury County Rural Electric Cooperative is dedicated to the education of our member-consumers to help them make wise decisions when it comes to energy efficiency. Woodbury County Rural Electric Cooperative publishes a news- letter once a month that includes at least one energy efficiency tip to help our members save energy with little or no cost. These tips include turning down their thermostat, turning off lights, changing their furnace filter, and many more afford- able do-it-yourself ideas. Woodbury County Rural Electric Cooperative consistently shares the energy efficiency message on our website and through energy education outreach to our local schools. Through our education efforts, we encourage all our members to “get the facts” and make smart, strategic choices that can save on energy bills and the environment. Our energy efficiency education encourages members to consider not just the initial cost of a product, but also the second investment – the cost to operate the product over its lifetime. As a member of the National Rural Electric Cooperative Association (NRECA), Woodbury County Rural Electric Cooperative has access to the Cooperative Research Network

(CRN), a division of NRECA, which funds research projects in many areas including energy efficiency and new technologies.

These programs were reviewed or designed during the assessment of potential process in which Woodbury County Rural Electric Cooperative participated. Developing a five-year plan allowed us to evaluate the cost-effectiveness, the appropriateness for our member-consumer, and determine the potential for participation for each program. During this process each program was reviewed by a qualified independent third-party to determine whether the programs were cost-effective. The analysis determined these programs were cost effective.

We also reviewed each potential program to assess the appropriateness of fit for the member-consumers we serve. From that assessment we developed programs that matched our member-consumers’ energy usage. We also worked with local business to leverage local resources and pave the way for our member-consumers to take advantage of the programs. By having local businesses as partners in the efficiency programs our members will find it a little easier to participate.

This filing marks the end of this 5 year plan for Woodbury County Rural Electric Cooperative. Woodbury County Rural Electric Cooperative has proceeded into a new 5 year plan and will review and evaluate the results from this 5 year plan to optimize our energy efficiency programs moving forward.

Since its incorporation in 1938, Woodbury County Rural Electric Cooperative has always been an advocate for the wise and efficient use of energy.

Woodbury County Rural Electric Cooperative	Measure Description	5 Year Plan (2010-2014) Estimated Achievable Potential Goals: Projected Participants	Projected Cost	Cumulative Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Sum of Incremental Annual kWh Savings 2010-2014 (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	5 Year Plan (2010-2014) Plan to Date Results: Participants	Cost to Cooperative	Measure Lifetime kWh Savings	Cumulative 5 Year Plan kWh Savings	Incremental Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)
I. Incentive Programs for Energy Efficient Technologies											
Residential Cooling & Heating (low income included)											
ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	30	$5,692	123,123	22,642	8,795	18	$3,023	78,073	17,017	5,577
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	36	$1,105	28,412	8,418	3,157	17	$1,024	13,416	4,823	1,491
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	39	$94,878	10,357,565	1,447,403	517,878	88	$243,372	23,370,917	3,572,034	1,168,546
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	224	$167,993	26,390,650	5,238,858	1,759,377	89	$79,300	10,485,571	2,018,570	699,038
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	10,435	$23,479	4,988,733	1,816,758	683,388	10,914	$27,482	5,217,732	3,101,670	714,757
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.						8,366	$15,338	3,999,592	1,576,347	547,890
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)						156	$19,423	480,895	115,022	96,478
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	305	$76,293	1,482,932	295,108	98,862	117	$34,670	557,359	119,097	37,157
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	245	$2,610	817,482	272,494	90,831	3		10,010	5,561	1,112
Flow Restrictors - Shower	Incentive for low-flow shower head.	125	$1,305	790,875	237,263	79,088	3		18,981	9,491	1,898
Tank Insulation	Incentive for water heater tank insulation.	125	$1,305	213,675	64,103	21,368					
Pipe Insulation	Incentive for water pipe insulation.	125	$1,305	222,694	44,539	14,846					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	34	$2,092	83,028	19,980	7,548	269	$22,443	837,545	234,932	76,141
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	205	$6,414	265,323	64,125	24,120	155	$7,816	200,610	58,008	18,238
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	166	$5,179	262,571	46,398	17,505	234	$11,463	370,129	76,977	24,675
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	247	$7,689	275,541	48,638	18,369	52	$2,575	58,009	11,750	3,867
Appliance Recycling	Incentives for appliance recycling.	353	$21,149	3,124,815	1,037,454	347,542	103	$5,090	821,374	334,296	92,557
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	120	$5,116	1,220,378	384,193	135,598	620	$12,250	6,305,288	2,113,064	700,588
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	100	$62,561	4,568,760	380,730	152,292	69	$43,407	3,104,493	327,669	103,484
Residential Total		**12,914**	**$486,165**	**55,216,558**	**11,429,103**	**3,980,563**	**21,273**	**$528,674**	**55,929,995**	**13,696,327**	**4,293,494**
Percentage of 5 year plan goal - Residential								**109%**	**101%**		**108%**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	1,152	$2,307	626,061	462,240	173,906					
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	2,344	$5,089	2,202,510	1,267,416	476,119	252	$6,633	374,116	121,952	59,486
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)						28	$1,988	105,290	28,724	11,002
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	5	$6,660	86,802	13,020	4,340	9	$19,859	156,244	32,117	7,812
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	10	$6,000	261,738	52,348	17,449					
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	20	$3,875	110,889	22,178	7,393	1	$200	5,544	1,848	370
Ag/Commercial & Industrial Insulation											
Building Envelope	Rebates for insulation.						1	$2,545	248,224	29,787	9,929
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	270	$108,650	2,886,111	577,222	192,407					
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	85	$5,145	31,695,939	6,339,188	2,113,063	40	$2,400	14,915,736	1,988,765	994,382
Ag, Commercial and Industrial Total		**3,886**	**$137,726**	**37,870,050**	**8,733,611**	**2,984,677**	**331**	**$33,625**	**15,805,154**	**2,203,193**	**1,082,981**
Percentage of 5 year plan goal - Ag, Commercial and Industrial								**24%**	**42%**		**36%**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	6,346	$483,134				5,758	$624,657			
Air Conditioning Load Control	Load control for air conditioning	5,543	$416,909				5,141	$558,708			
Space Heating Load Control (Interruptible)	Load control for space heating.	6,161	$478,690				1,077	$90,163			
Dual-Fuel Space Heating	Duel fuel space heating	800	$71,115				160	$13,395			
Irrigation											
Load Control	Irrigation load control.	158	$13,334				147	$15,867			
Industrial Interruptible Price	Industrial Interruptible Price	9	$428								
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	14	$2,800								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	2	$600				2				
Energy Audit Services - Residential *	Energy Audit Services - Residential	120	$12,000				53	$6,688			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	14,480	$192,800				11,892	$220,138			
Peak Alert	Peak Alert	11,700	$325				11,892	$471			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Economic contributions to Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$35,500				11,892	$42,824			
TOTAL		**62,133**	**$2,331,526**	**93,086,608**	**20,162,714**	**6,965,240**	**69,618**	**$2,135,209**	**71,735,149**	**15,899,520**	**5,376,475**
Percentage of 5 year plan goal achieved								**92%**	**77%**		**77%**

* Savings for the specific measures are accounted for and included in the applicable programs

	Plan Year 1 (2010)					Plan Year 1 (2010)				
	Estimated Achievable Potential					Year to Date Results				
Woodbury County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	3	$742	12,727	909	1	8	600	30,862	2,204	3
ENERGY STAR Qualified Room Air Conditioner	5	$145	3,946	438	0	3	$113	2,368	263	0
Geothermal Heat Pump	6	$14,837	1,593,472	79,674	9	19	$57,000	5,045,993	252,300	32
Air Source Heat Pump	44	$32,901	5,183,878	345,592	45	16	$12,600	1,885,046	125,670	18
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,378	$3,101	658,790	90,245	83	3,705	$8,639	1,771,275	242,640	247
Local CFL Rebate Program(s)						1,550	$3,864	741,019	101,510	103
Exterior Lighting										
High Efficiency Exterior Lighting										
Residential Water Heating (low income included)										
High Efficiency Water Heater	60	$14,980	291,042	19,403	3	27	$8,100	130,969	8,731	1
Flow Restrictors - Faucet	49	$522	163,496	18,166	1	3		10,010	1,112	0
Flow Restrictors - Shower	25	$261	158,175	15,818	1	3		18,981	1,898	0
Tank Insulation	25	$261	42,735	4,274	0					
Pipe Insulation	25	$261	44,539	2,969	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	4	$274	9,768	888	0	55	$4,125	171,245	15,568	6
ENERGY STAR Qualified Dishwasher	27	$838	34,945	3,177	2	31	$1,163	40,122	3,647	3
ENERGY STAR Qualified Refrigerator	22	$677	34,799	2,320	0	47	$1,763	74,342	4,956	1
ENERGY STAR Qualified Freezer	32	$1,006	35,698	2,380	0	11	$413	12,271	818	0
Appliance Recycling	70	$4,177	619,227	68,871	12	24	$900	176,683	20,040	5
Additional Low Income										
Energy Efficiency Kits	20	$853	203,396	22,600	3	145	$4,896	1,474,624	163,847	21
Building Shell - Existing Home Only										
Weatherization Rebates	10	$6,371	456,876	15,229	1	14	$9,021	629,636	20,988	2
Residential Total	**1,805**	**$82,207**	**9,547,508**	**692,952**	**163**	**5,661**	**$113,195**	**12,215,448**	**966,193**	**443**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	152	$305	82,605	22,946	9					
High Efficiency Interior Lighting	312	$705	292,422	63,199	1	32	$75	15,885	6,109	0
Exterior Lighting										
High Efficiency Exterior Lighting						7	$1,000	8,197	1,673	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,332	17,360	868	0	5	$9,500	86,802	4,340	1
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,200	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	4	$775	22,178	1,479	0	1	$200	5,544	370	0
Ag/Commercial & Industrial Insulation										
Building Envelope										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	54	$21,730	577,222	38,481	5					
Variable Speed Drive Motor Incentive	17	$1,029	6,339,188	422,613	37					
Ag, Commercial and Industrial Total	**542**	**$27,076**	**7,383,323**	**553,075**	**52**	**45**	**$10,775**	**116,428**	**12,492**	**1**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	1,147	$91,001			574	1,087	$91,001			603
Air Conditioning Load Control	991	$78,527			694	938	$78,527			729
Space Heating Load Control (Interruptible)	1,127	$90,163			5,072	1,077	$90,163			5,380
Dual-Fuel Space Heating	160	$13,395			960	160	$13,395			1,066
Irrigation										
Load Control	31	$2,512			205	30	$2,512			220
Industrial Interruptible Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600								
Expert Energy Services - C&I	1	$300				2				
Energy Audit Services - Residential *	20	$2,000				5				
IV. Educational & Research Programs										
Member Information and Education	2,850	$37,800				2,356	$39,699			
Peak Alert	2,300	$55				2,356	$62			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$6,900				2,356	$7,828			
TOTAL	**10,977**	**$432,535**	**16,930,831**	**1,246,027**	**7,718**	**16,073**	**$447,156**	**12,331,876**	**978,685**	**8,441**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 2 (2011)					Plan Year 2 (2011)				
	Estimated Achievable Potential					Year to Date Results				
Woodbury County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	5	$938	19,829	1,416	2	2	$450	7,988	571	1
ENERGY STAR Qualified Room Air Conditioner	6	$183	4,735	526	1	4	$150	3,157	351	
Geothermal Heat Pump	7	$16,900	1,859,050	92,953	11	18	$52,800	4,780,415	239,021	31
Air Source Heat Pump	44	$33,312	5,183,878	345,592	45	22	$17,400	2,591,939	172,796	25
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,729	$3,890	826,595	113,232	104	7,209	$18,843	3,446,457	472,117	480
Local CFL Rebate Program(s)						1,536	$3,427	734,326	100,593	102
Exterior Lighting										
High Efficiency Exterior Lighting						7	$945	5,426	1,131	
Residential Water Heating (low income included)										
High Efficiency Water Heater	61	$15,138	296,586	19,772	3	28	$8,400	155,245	10,350	2
Flow Restrictors - Faucet	49	$522	163,496	18,166	1					
Flow Restrictors - Shower	25	$261	158,175	15,818	1					
Tank Insulation	25	$261	42,735	4,274	0					
Pipe Insulation	25	$261	44,539	2,969	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	6	$345	14,652	1,332	0	59	$4,425	183,699	16,700	7
ENERGY STAR Qualified Dishwasher	34	$1,058	44,005	4,000	3	36	$1,350	46,593	4,236	4
ENERGY STAR Qualified Refrigerator	27	$854	42,707	2,847	0	56	$2,100	88,578	5,905	1
ENERGY STAR Qualified Freezer	41	$1,269	45,738	3,049	0	8	$300	8,924	595	
Appliance Recycling	70	$4,202	619,227	68,871	12	42	$1,500	336,176	37,897	9
Additional Low Income										
Energy Efficiency Kits	22	$938	223,736	24,860	3	110	$2,487	1,118,680	124,298	16
Building Shell - Existing Home Only										
Weatherization Rebates	15	$9,403	685,314	22,844	2	17	$11,390	776,689	25,890	2
Residential Total	**2,191**	**$89,735**	**10,274,997**	**742,521**	**188**	**9,154**	**$125,967**	**14,284,292**	**1,212,451**	**680**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	191	$382	103,800	28,833	11					
High Efficiency Interior Lighting	390	$859	366,084	79,130	1					
Exterior Lighting										
High Efficiency Exterior Lighting						6	$577	3,889	794	
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,332	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,200	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	4	$775	22,178	1,479	0					
Ag/Commercial & Industrial Insulation										
Building Envelope										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	54	$21,730	577,222	38,481	5					
Variable Speed Drive Motor Incentive	17	$1,029	6,339,188	422,613	37					
Ag, Commercial and Industrial Total	**659**	**$27,307**	**7,478,180**	**574,893**	**55**	**6**	**$577**	**3,889**	**794**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	1,208	$93,731			604	1,159	$144,629			643
Air Conditioning Load Control	1,047	$80,883			733	1,024	$127,782			796
Space Heating Load Control (Interruptible)	1,178	$92,868			5,301					
Dual-Fuel Space Heating	160	$13,797			960					
Irrigation										
Load Control	31	$2,587			205	29	$3,619			212
Industrial Interruptible Price	1	$203			7					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	4	$800								
Expert Energy Services - C&I	1	$300								
Energy Audit Services - Residential *	22	$2,200				16				
IV. Educational & Research Programs										
Member Information and Education	2,870	$38,000				2,372	$36,772			
Peak Alert	2,320	$60				2,372	$62			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$7,000				2,372	$7,719			
TOTAL	**11,692**	**$449,470**	**17,753,177**	**1,317,415**	**8,051**	**18,504**	**$447,127**	**14,288,181**	**1,213,245**	**2,331**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 3 (2012)					Plan Year 3 (2012)				
	Estimated Achievable Potential					Year to Date Results				
Woodbury County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	6	$1,137	25,455	1,818	2					
ENERGY STAR Qualified Room Air Conditioner	7	$220	5,524	614	1	6	$458	4,735	526	1
Geothermal Heat Pump	8	$18,985	2,124,629	106,231	12	16	$44,167	4,249,258	212,463	27
Air Source Heat Pump	45	$33,681	5,301,693	353,446	46	12	$11,449	1,413,785	94,252	14
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,085	$4,691	996,791	136,547	125					
Local CFL Rebate Program(s)						1,536	$3,638	734,326	100,593	102
Exterior Lighting										
High Efficiency Exterior Lighting						34	$3,274	25,333	5,197	
Residential Water Heating (low income included)										
High Efficiency Water Heater	61	$15,284	296,586	19,772	3	18	$5,580	62,571	4,171	
Flow Restrictors - Faucet	49	$522	163,496	18,166	1					
Flow Restrictors - Shower	25	$261	158,175	15,818	1					
Tank Insulation	25	$261	42,735	4,274	0					
Pipe Insulation	25	$261	44,539	2,969	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	7	$418	17,094	1,554	1	56	$5,678	174,359	15,851	6
ENERGY STAR Qualified Dishwasher	41	$1,281	53,065	4,824	4	39	$2,677	50,476	4,589	4
ENERGY STAR Qualified Refrigerator	33	$1,034	52,198	3,480	0	47	$3,167	74,342	4,956	1
ENERGY STAR Qualified Freezer	49	$1,535	54,662	3,644	0	14	$856	15,618	1,041	
Appliance Recycling	70	$4,229	619,227	68,871	12	21	$1,062	170,640	19,164	4
Additional Low Income										
Energy Efficiency Kits	24	$1,023	244,076	27,120	3	105	$2,153	1,067,831	118,648	15
Building Shell - Existing Home Only										
Weatherization Rebates	20	$12,471	913,752	30,458	2	16	$10,720	715,018	23,834	2
Residential Total	**2,580**	**$97,294**	**11,113,696**	**799,606**	**214**	**1,920**	**$94,879**	**8,758,292**	**605,285**	**176**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	230	$461	124,995	34,721	14					
High Efficiency Interior Lighting	468	$1,017	439,746	95,060	1	42	$1,103	53,308	8,329	
Exterior Lighting										
High Efficiency Exterior Lighting						1	$96	555	113	
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,332	17,360	868	0	4	$10,359	69,442	3,472	1
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,200	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	4	$775	22,178	1,479	0					
Ag/Commercial & Industrial Insulation										
Building Envelope						1	$2,545	248,224	9,929	1
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	54	$21,730	577,222	38,481	5					
Variable Speed Drive Motor Incentive	17	$1,029	6,339,188	422,613	37					
Ag, Commercial and Industrial Total	**776**	**$27,544**	**7,573,037**	**596,712**	**57**	**48**	**$14,103**	**371,529**	**21,843**	**2**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	1,269	$96,543			635	1,149	$119,474			638
Air Conditioning Load Control	1,106	$83,309			774	1,008	$104,813			783
Space Heating Load Control (Interruptible)	1,231	$95,654			5,540					
Dual-Fuel Space Heating	160	$14,210			960					
Irrigation										
Load Control	31	$2,664			205	30	$3,119			220
Industrial Interruptible Price	2	$7			13					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$400								
Expert Energy Services - C&I										
Energy Audit Services - Residential *	24	$2,400				13	$2,652			
IV. Educational & Research Programs										
Member Information and Education	2,890	$38,500				2,388	$51,262			
Peak Alert	2,340	$65				2,388	$114			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$7,100				2,388	$8,554			
TOTAL	**12,411**	**$465,691**	**18,686,733**	**1,396,318**	**8,397**	**11,332**	**$398,970**	**9,129,821**	**627,128**	**1,819**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 4 (2013)					Plan Year 4 (2013)				
	Estimated Achievable Potential					Year to Date Results				
Woodbury County Rural Electric Cooperative	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Participants	Cost to Cooperative	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,334	32,556	2,325	3	3	$535	12,727	909	1
ENERGY STAR Qualified Room Air Conditioner	8	$259	6,314	702	1	2	$140	1,578	175	0
Geothermal Heat Pump	9	$20,995	2,390,207	119,510	14	19	$44,421	5,045,993	252,300	32
Air Source Heat Pump	45	$33,859	5,301,693	353,446	46	14	$12,126	1,649,416	109,961	16
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,437	$5,484	1,165,074	159,599	146					
Local CFL Rebate Program(s)						1,824	$418	872,012	119,454	121
Exterior Lighting										
High Efficiency Exterior Lighting						26	$6,193	23,576	4,756	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	61	$15,370	296,586	19,772	3	24	$6,240	114,336	7,622	1
Flow Restrictors - Faucet	49	$522	163,496	18,166	1					
Flow Restrictors - Shower	25	$261	158,175	15,818	1					
Tank Insulation	25	$261	42,735	4,274	0					
Pipe Insulation	25	$261	44,539	2,969	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	8	$490	19,536	1,776	1	52	$4,690	161,905	14,719	6
ENERGY STAR Qualified Dishwasher	48	$1,503	62,124	5,648	4	28	$1,838	36,239	3,294	3
ENERGY STAR Qualified Refrigerator	39	$1,214	61,688	4,113	0	46	$3,008	72,761	4,851	1
ENERGY STAR Qualified Freezer	58	$1,802	64,702	4,313	1	10	$668	11,156	744	0
Appliance Recycling	71	$4,257	630,036	70,072	12	9	$630	86,044	9,560	2
Additional Low Income										
Energy Efficiency Kits	26	$1,108	264,415	29,379	3	130	$200	1,322,077	146,897	19
Building Shell - Existing Home Only										
Weatherization Rebates	25	$15,582	1,142,190	38,073	3	10	$5,390	446,886	14,896	1
Residential Total	**2,967**	**$104,562**	**11,846,068**	**849,956**	**239**	**2,197**	**$86,497**	**9,856,705**	**690,139**	**203**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	269	$539	146,190	40,608	16					
High Efficiency Interior Lighting	546	$1,173	513,409	110,991	2	68	$2,870	149,566	21,371	0
Exterior Lighting										
High Efficiency Exterior Lighting						14	$315	92,649	8,423	
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,332	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,200	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	4	$775	22,178	1,479	0					
Ag/Commercial & Industrial Insulation										
Building Envelope										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	54	$21,730	577,222	38,481	5					
Variable Speed Drive Motor Incentive	17	$1,029	6,339,188	422,613	37	40	$2,400	14,915,736	994,382	95
Ag, Commercial and Industrial Total	**893**	**$27,778**	**7,667,894**	**618,530**	**60**	**122**	**$5,585**	**15,157,951**	**1,024,176**	**96**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	1,330	$99,439			665	1,172	$135,439			650
Air Conditioning Load Control	1,168	$85,808			818	1,055	$121,918			820
Space Heating Load Control (Interruptible)	1,285	$98,524			5,783					
Dual-Fuel Space Heating	160	$14,637			960					
Irrigation										
Load Control	32	$2,744			211	29	$3,351			212
Industrial Interruptible Price	3	$209			20					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600								
Expert Energy Services - C&I										
Energy Audit Services - Residential *	26	$2,600				11	$2,244			
IV. Educational & Research Programs										
Member Information and Education	2,910	$39,000				2,389	$43,071			
Peak Alert	2,360	$70				2,389	$114			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$7,200				2,389	$9,301			
TOTAL	**13,137**	**$483,171**	**19,513,962**	**1,468,486**	**8,755**	**11,753**	**$407,520**	**25,014,656**	**1,714,315**	**1,982**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr

	Plan Year 5 (2014)					Plan Year 5 (2014)				
	Estimated Achievable Potential					Year to Date Results				
Woodbury County Rural Electric Cooperative	**Projected Participants**	**Projected Cost**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**	**Participants**	**Cost to Cooperative**	**Lifetime kWh Savings**	**Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)**	**KW Savings**
I. Incentive Programs for Energy Efficient Technologies										
Residential Cooling & Heating (low income included)										
ENERGY STAR Central Air Conditioning	8	$1,541	32,556	2,325	3	5	$1,438	26,496	1,893	2
ENERGY STAR Qualified Room Air Conditioner	10	$298	7,892	877	1	2	$163	1,578	175	0
Geothermal Heat Pump	9	$23,161	2,390,207	119,510	14	16	$44,984	4,249,258	212,463	27
Air Source Heat Pump	46	$34,240	5,419,508	361,301	47	25	$25,725	2,945,385	196,359	28
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,806	$6,313	1,341,484	183,765	168					
Local CFL Rebate Program(s)						1,920	$3,991	917,908	125,741	128
Exterior Lighting										
High Efficiency Exterior Lighting						89	$9,011	426,560	85,394	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	62	$15,521	302,131	20,142	3	20	$6,350	94,239	6,283	1
Flow Restrictors - Faucet	49	$522	163,496	18,166	1					
Flow Restrictors - Shower	25	$261	158,175	15,818	1					
Tank Insulation	25	$261	42,735	4,274	0					
Pipe Insulation	25	$261	44,539	2,969	1					
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	9	$565	21,978	1,998	1	47	$3,525	146,337	13,303	5
ENERGY STAR Qualified Dishwasher	55	$1,734	71,184	6,471	5	21	$788	27,179	2,471	2
ENERGY STAR Qualified Refrigerator	45	$1,400	71,179	4,745	0	38	$1,425	60,107	4,007	0
ENERGY STAR Qualified Freezer	67	$2,077	74,742	4,983	1	9	$338	10,040	669	0
Appliance Recycling	72	$4,284	637,099	70,857	12	7	$998	51,831	5,895	2
Additional Low Income										
Energy Efficiency Kits	28	$1,194	284,755	31,639	4	130	$2,514	1,322,077	146,897	19
Building Shell - Existing Home Only										
Weatherization Rebates	30	$18,734	1,370,628	45,688	4	12	$6,886	536,263	17,875	2
Residential Total	**3,371**	**$112,367**	**12,434,289**	**895,528**	**264**	**2,341**	**$108,136**	**10,815,257**	**819,426**	**217**
Percentage of 5 year plan goal - Residential										
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	310	$620	168,471	46,798	19					
High Efficiency Interior Lighting	628	$1,335	590,849	127,739	2	110	$2,585	155,358	23,676	0
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,332	17,360	868	0					
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$1,200	52,348	3,490	0					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	4	$775	22,178	1,479	0					
Ag/Commercial & Industrial Insulation										
Building Envelope										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	54	$21,730	577,222	38,481	5					
Variable Speed Drive Motor Incentive	17	$1,029	6,339,188	422,613	37					
Ag, Commercial and Industrial Total	**1,016**	**$28,021**	**7,767,616**	**641,467**	**62**	**110**	**$2,585**	**155,358**	**23,676**	**0**
Percentage of 5 year plan goal - Ag, Commercial and Industrial										
II. Demand Response Programs										
Water Heater Load Control	1,392	$102,422			696	1,191	$134,114			661
Air Conditioning Load Control	1,231	$88,383			862	1,116	$125,668			867
Space Heating Load Control (Interruptible)	1,340	$101,480			6,030					
Dual-Fuel Space Heating	160	$15,076			960					
Irrigation										
Load Control	33	$2,827			218	29	$3,266			212
Industrial Interruptible Price	3	$9			20					
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$400								
Expert Energy Services - C&I										
Energy Audit Services - Residential *	28	$2,800				8	$1,792			
IV. Educational & Research Programs										
Member Information and Education	2,960	$39,500				2,387	$49,334			
Peak Alert	2,380	$75				2,387	$119			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$7,300				2,387	$9,422			
TOTAL	**13,916**	**$500,659**	**20,201,905**	**1,536,995**	**9,112**	**11,956**	**$434,436**	**10,970,615**	**843,102**	**1,958**
Percentage of 5 year plan goal achieved										

* Savings for the specific measures are accounted for and included in the applicable progr