FILED WITH
Executive Secretary
December 30, 2011
IOWA UTILITIES BOARD
EEP-2009-0002

Iowa Association of Electric Cooperatives
A Touchstone Energy® Cooperative

Dec. 31, 2011

Joan Conrad
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 Ms. Conrad:

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. SF 2386, 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. This filing 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 first 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
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Iowa Association of Electric Cooperatives

Electric Cooperatives' Joint Report

Pursuant to Senate File 2386 and Iowa Code 476.6, subsection 16 c. (4)

Dec. 31, 2011

Iowa Association of Electric Cooperatives

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	Executive Summary
1.	List of RECs 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-efficiency 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

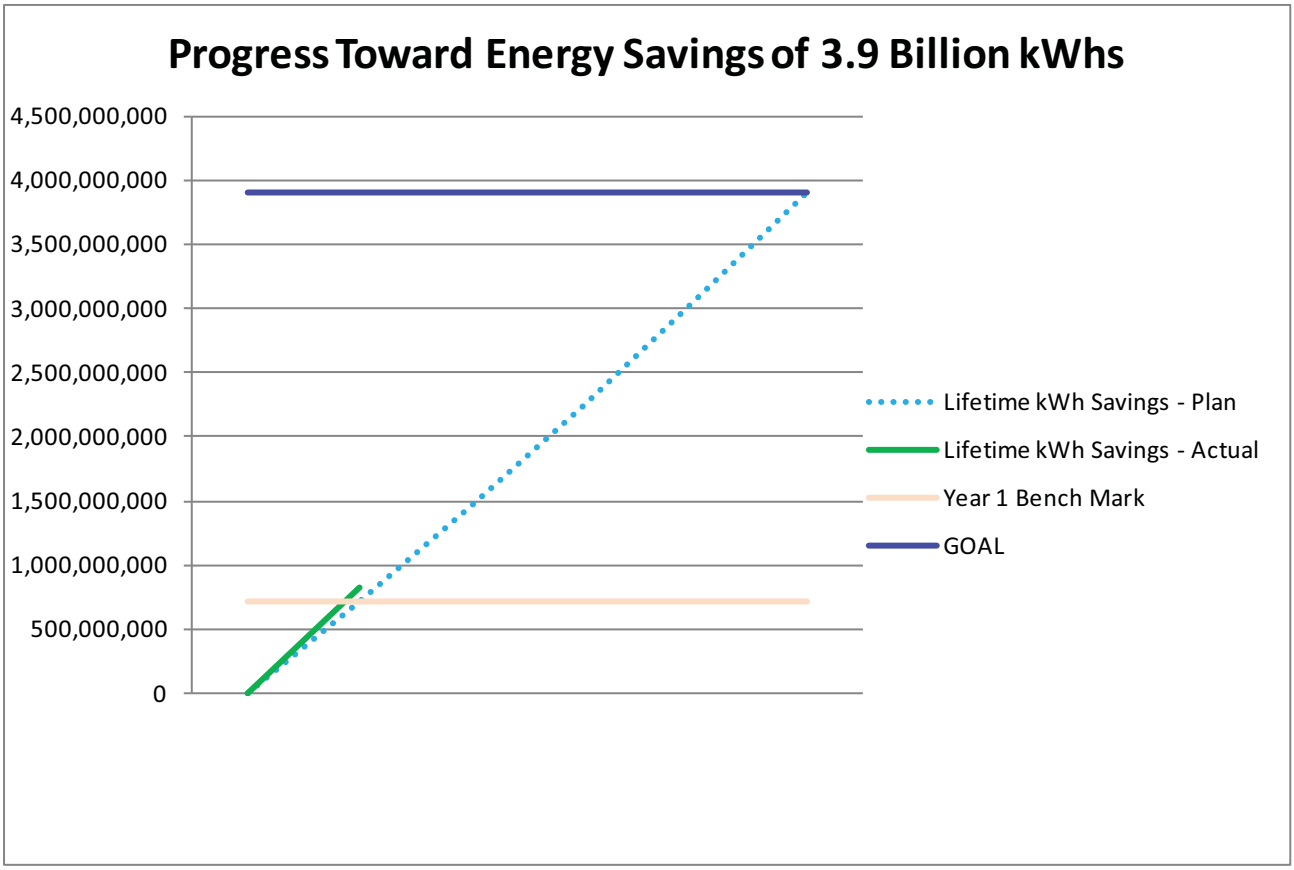
These differences present their own set of unique challenges relative to energy efficiency.

Electric cooperatives in Iowa, over the past 3 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 2010, which is the first year of the initial five year plan (2010-2014).

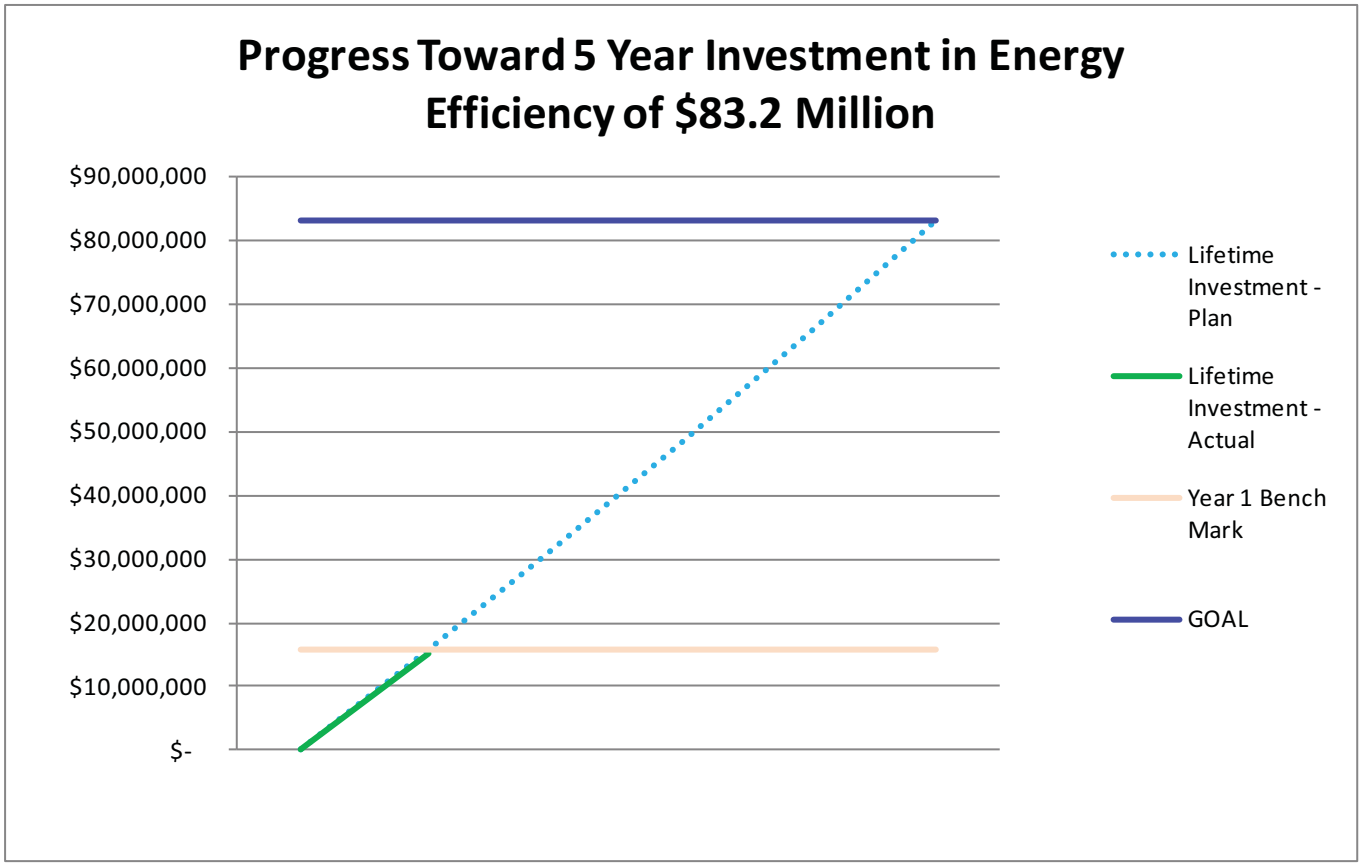
This report also includes sheets showing revised goals compiled for all electric cooperatives that are a part of this report. For 2010 some cooperative goals were updated because of some mathematical errors in the filing made December 31, 2009. These issues were fixed for 2010. Additionally, some cooperatives made some additional changes to goals for the other years and they have been reflected in the individual cooperative detail sheets as well as the IAEC total sheets. Therefore, this filing includes update goal data for all the cooperatives that are a part of this joint filing.

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 after one year of the five year plan are on target to achieving the 3.9 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 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 for the first year of the five year plan was projected to be $15.7 million and the actual dollars invested was $15.25 million. The actual investments were therefore 3% below the budget.

The following table shows the progress toward the 5 year energy savings goals and the 5 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)**	**Energy Efficiency Investment - Plan (2010-2014)**	**Energy Efficiency Investment - Plan to Date Actual (2010)**
Access Energy Cooperative	102,736,200	21,491,913	$ 2,973,583	$ 565,939
Allamakee Clayton Elec. Coop., Inc.	75,588,304	17,288,010	$ 1,503,660	$ 308,408
Atchison Holt Electric Coop.	20,307,425	1,129,092	$ 438,861	$ 25,458
Boone Valley Electric Coop.	1,621,197	57,309	$ 12,945	$ 3,600
Butler County Rural Elec. Coop.	92,870,169	25,190,855	$ 1,202,662	$ 327,024
Calhoun County Electric Coop. Assn.	32,049,109	5,411,587	$ 456,893	$ 57,216
Chariton Valley Electric Cooperative, Inc.	63,848,540	14,834,249	$ 1,699,777	$ 130,071
Clarke Electric Cooperative, Inc.	132,140,846	12,687,965	$ 1,654,734	$ 151,381
Consumers Energy Cooperative	89,715,507	15,871,086	$ 1,573,823	$ 264,115
East-Central Iowa Rural Electric Coop.	192,945,133	37,359,049	$ 2,272,722	$ 396,098
Eastern Iowa Light & Power Cooperative	352,520,132	51,701,366	$ 13,196,479	$ 2,002,739
Farmers Electric Coop., Inc. - Greenfield	94,215,549	20,140,262	$ 1,146,538	$ 203,777
Franklin Rural Electric Cooperative	40,765,833	8,840,091	$ 548,443	$ 130,047
Grundy County Rural Electric Cooperative	55,642,021	6,467,633	$ 546,187	$ 118,812
Grundy Electric Cooperative, Inc.	843,217	28,685	$ 19,459	$ 3,290
Guthrie Co. Rural Electric Cooperative Assn.	109,533,344	22,012,987	$ 1,242,843	$ 192,570
Harrison County Rural Electric Cooperative	104,081,678	11,650,749	$ 2,577,572	$ 480,966
Hawkeye REC	77,891,032	21,598,120	$ 3,075,408	$ 768,686
Heartland Power Cooperative	85,736,003	27,217,187	$ 3,090,382	$ 783,677
Humboldt County Rural Electric Cooperative	39,501,003	9,148,719	$ 506,523	$ 103,430
Iowa Lakes Electric Cooperative	207,468,810	58,109,051	$ 2,668,102	$ 661,590
Linn County Rural Electric Coop. Assn.	509,407,996	81,156,084	$ 7,696,258	$ 1,214,849
Lyon Rural Electric Cooperative	64,907,377	12,683,959	$ 1,189,570	$ 162,597
Midland Power Cooperative	183,762,408	34,366,552	$ 3,687,067	$ 486,923
Nishnabotna Valley Rural Electric Coop.	111,550,247	9,418,263	$ 3,516,500	$ 665,083
North West Rural Electric Cooperative	276,091,401	83,524,044	$ 10,544,963	$ 2,344,272
Osceola Electric Cooperative, Inc.	27,824,899	3,096,837	$ 534,351	$ 75,402
Pella Cooperative Electric Association	56,387,155	14,228,247	$ 848,579	$ 171,889
Prairie Energy Cooperative	86,079,128	23,866,780	$ 1,502,895	$ 413,029
Raccoon Valley Electric Cooperative	59,182,896	81,666,783	$ 786,629	$ 172,433
Southern Iowa Electric Cooperative, Inc.	38,451,375	9,193,672	$ 1,221,842	$ 193,873
Southwest Iowa Rural Electric Cooperative	139,122,286	21,107,163	$ 1,908,822	$ 247,103
T. I. P. Rural Electric Cooperative	110,286,425	27,271,549	$ 1,515,645	$ 336,398
Tri-County Electric Cooperative	647,470	46,189	$ 6,101	$ 23,825
United Electric Cooperative, Inc.	10,321,775	923,180	$ 195,105	$ 18,853
Western Iowa Power Cooperative	159,873,054	18,813,060	$ 3,282,707	$ 601,957
Woodbury County Rural Electric Cooperative	93,086,608	12,331,876	$ 2,331,526	$ 447,156
TOTAL	**3,899,003,551**	**821,930,203**	**$ 83,176,154**	**$ 15,254,533**

Summary

The Iowa RECs, as a group and after the first year of the five year plan, have achieved 14% more energy savings than was projected in the five year goals. Additionally, this was accomplished with spending 3% below budget.

The energy savings for measures installed during the first year were estimated to result in energy savings over their lives to power approximately 66,000 homes in Iowa for one year. The actual measures installed over their lives would save enough energy to power more than 75,000 homes for one year.

As with any data set drawing conclusions based on only one year's worth of data has its limitations. Therefore, readers of this report need to keep this in mind relative to any conclusions based on the first year of data for this five year plan.

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. - MO
16.	Guthrie Co. Rural Electric Cooperative Assn.
17.	Harrison County Rural Electric Cooperative
18.	Hawkeye REC
19.	Heartland Power Cooperative
20.	Humboldt County Rural Electric Cooperative
21.	Iowa Lakes Electric Cooperative
22.	Linn County Rural Electric Coop. Assn.
23.	Lyon Rural Electric Cooperative
24.	Midland Power Cooperative
25.	Nishnabotna Valley Rural Electric Coop.
26.	North West Rural Electric Cooperative
27.	Osceola Electric Cooperative, Inc.
28.	Pella Cooperative Electric Association
29.	Pleasant Hill Community Line
30.	Prairie Energy Cooperative
31.	Raccoon Valley Electric Cooperative
32.	Southern Iowa Electric Cooperative, Inc.
33.	Southwest Iowa Rural Electric Cooperative
34.	T. I. P. Rural Electric Cooperative
35.	Tri-County Electric Cooperative
36.	United Electric Cooperative, Inc.
37.	Western Iowa Power Cooperative
38.	Woodbury County Rural Electric 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 (Through 2010)				
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.	4,879	$886,411	21,788,558	4,556,376	1,556,326	1,010	$166,824	4,695,082	1,676,815	335,363
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	1,416	$48,773	1,156,345	372,038	128,483	162	$14,333	128,518	71,399	14,280
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	4,606	$9,688,418	1,217,541,096	174,220,401	60,877,055	1,077	$2,039,306	285,007,469	71,251,867	14,250,373
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	4,895	$3,870,635	575,390,767	112,214,414	38,359,384	704	$523,439	82,730,738	27,576,913	5,515,383
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	734	$117,386	9,143,483	1,317,347	457,174	76	$13,261	946,680	236,670	47,334
Residential Contractor Rebates	Incentive for heat pump installs	4,140	$834,363				967	$217,731			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	220,924	$517,597	105,419,346	41,379,634	14,441,006	69,344	$122,721	35,270,316	24,157,751	4,831,550
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	258,788	$840,935	123,177,132	51,385,622	16,873,580	145,565	$426,395	69,405,953	47,538,324	9,507,665
ENERGY STAR CFL Fixtures	Rebate for compact florescent light fixtures.	2,796	$29,012	6,101,314	855,515	305,066					
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	6,806	$76,154	5,255,057	889,600	320,430	468	$3,286	412,479	125,756	25,151
ENERGY STAR LED lighting	Rebate for LED lighting.	3,656	$33,040	4,888,329	731,416	271,574	222	$673	297,183	82,551	16,510
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	993	$19,734	2,979,113	463,028	165,506					
CFL Recycling	Recycling of compact florescent light bulbs.	103	$1,485				174	$534			
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	5,822	$431,600	6,252,527	4,442,992	1,495,436	1,287	$62,475	1,520,945	1,542,761	345,669
LED Holiday Lighting	Rebate for holiday lighting.	6,008	$23,690	5,601,859	1,307,769	466,822	2,767	$9,525	2,578,259	1,074,274	214,855
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	15,055	$3,367,288	62,584,916	12,332,958	4,172,328	2,735	$765,206	11,119,194	3,706,398	741,280
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	10	$5,096	191,488	95,744	19,149
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	1,058	$612,478	24,322,957	4,964,397	2,026,913	56	$37,265	1,286,276	535,948	107,190
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	178	$78,337	3,971,267	795,784	330,939	1	$440	22,284	9,285	1,857
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.	18,949	$404,024	63,090,203	20,700,999	7,010,023	2,021	$9,682	6,723,537	3,735,298	747,060
Flow Restrictors - Shower	Incentive for low-flow shower head.	13,181	$578,750	83,136,859	24,403,925	8,313,686	1,435	$12,443	9,047,004	4,523,502	904,700
Tank Insulation	Incentive for water heater tank insulation.	2,287	$66,560	3,904,337	1,145,829	390,434	171	$5,596	292,283	146,142	29,228
Pipe Insulation	Incentive for water pipe insulation.	4,647	$83,920	8,273,588	1,629,299	551,573	638	$1,196	1,135,374	378,458	75,692
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	8,121	$595,788	19,753,255	5,350,322	1,795,750	3,070	$225,684	7,092,202	3,223,728	644,746
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	7,169	$247,204	9,253,237	2,414,787	841,203	1,493	$72,519	1,926,453	875,661	175,132
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	10,112	$330,875	15,927,201	3,050,184	1,061,813	2,915	$145,833	4,590,639	1,530,213	306,043
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	2,833	$85,032	7,991,434	1,959,961	665,953	378	$15,240	1,066,328	444,303	88,861
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	5,864	$187,073	6,524,539	1,213,781	434,969	453	$18,755	503,613	167,871	33,574
Appliance Recycling	Incentives for appliance recycling.	13,416	$950,721	130,700,865	43,551,026	14,542,538	1,838	$122,384	14,932,334	8,351,880	1,670,376
Efficient Television	Rebate for efficient television.	1,766	$91,641	3,503,811	838,586	291,984	181	$11,852	359,064	149,610	29,922
Smart Strip	Incentive for smart power supply strip.	1,020	$6,375	1,132,200	394,494	113,220	2	$10	2,220	1,110	222
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	803	$544,830	26,575,896	2,537,247	884,753	39	$62,845	1,289,931	214,989	42,998
Advanced Lighting Package		320	$82,796	2,751,150	367,112	137,557	7	$1,460	60,175	15,044	3,009
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	5,165	$199,994	52,483,526	18,351,342	5,831,503	1,459	$48,848	14,831,881	8,239,934	1,647,987
Weatherization Rebates	Rebates for various insulation measures.	526	$279,148	15,519,807	1,527,772	523,893		$784			
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	9,431	$4,412,843	291,244,701	27,983,762	9,996,627	467	$210,843	17,824,818	3,033,405	606,681
Residential Total		**648,700**	**$30,714,964**	**2,921,835,533**	**570,912,914**	**196,077,172**	**243,192**	**$5,374,485**	**577,290,719**	**214,713,604**	**42,979,838**

Totals	Measure Description	5 Year Plan (2010-2014) Estimated Achievable Potential Goals					5 Year Plan (2010-2014) Plan to Date Results (Through 2010)				
		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.	29,531	$69,556	16,569,019	13,429,578	4,587,392	515	$411	283,411	393,147	78,629
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	120,005	$1,616,626	138,092,842	79,752,601	27,593,902	31,056	$329,369	44,569,944	40,114,964	8,022,993
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	169	$14,313	188,826	192,679	38,536
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	291	$9,055	428,013	142,671	28,534
Air Cooled Chillers	Rebate for water cooled chillers.	272	$7,058	839,470	123,606	41,973	315	$3,350	972,052	243,013	48,603
Water Cooled Chillers	Rebate for air cooled chillers.	22	$225	117,216	18,648	5,861	3	$387	15,870	3,968	794
Geothermal Heat Pump	Rebate for geothermal heat pump.	1,718	$892,693	84,084,933	14,916,131	4,204,247	959	$227,155	40,354,613	10,088,653	2,017,731
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	38	$7,730	900,625	300,208	60,042
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	652	$148,332	25,126,979	3,539,355	1,256,349	64	$13,748	2,465,883	616,471	123,294
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	1,662	$65,040				3	$2,442			
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	14	$3,131	63,054	21,018	4,204
Heat Pump Water Heater	Rebate for heat pump water heater.	5	$1,875	115,551	28,888	9,629					
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	2	$1,880	3,596	1,499	300
Ag/Commercial & Industrial Insulation											
Building Envelope	Rebates for insulation.	44	$66,541	4,041,523	506,762	169,416	10	$2,780	2,482,238	496,448	99,290
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	83	$8,650	885,538	295,179	59,036
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	1,090	$436,291	403,794,969	79,993,124	26,919,665	34	$52,809	19,776,437	6,592,146	1,318,429
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	68	$83,045	9,988,330	1,899,737	665,889		$1,905			
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	39	$18,765	6,460,261	1,203,545	430,684		$1,905			
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	1,586	$162,524	9,501,300	2,264,887	791,775	90	$5,632	461,839	192,433	38,487
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	130	$4,208	352,646	84,547	29,387	1	$508	2,711	1,130	226
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	997	$299,845	18,457,735	3,838,063	1,293,390	14	$963	55,111	22,963	4,593
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	72	$34,454	3,978,130	784,554	265,209	14	$6,477	775,058	258,353	51,671
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	626	$40,647	5,937,521	1,429,892	494,793	41	$2,819	390,683	162,784	32,557
Premium Motors Rebate Program - Dairy Vacuum Pump	Rebate for premium motors for dairy vacuum pumps.	10	$625	96,104	16,017	5,339		$440			
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	72	$98,831	15,920,744	2,744,701	936,514	8	$2,830	1,776,346	522,455	104,491
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	1,994	$7,733	1,328,445	945,561	332,111	460	$1,449	308,402	385,503	77,101
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	594	$16,090	1,187,814	379,538	118,781		$220			
Hog Farrowing - Double Crate Heating Pads(<=170W)	Rebate for double crate heating pads.	90	$5,645	361,638	108,491	36,164		$220			
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		$440			
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		485	$2,353,894	179,431,058	43,597,886	14,608,047	33	$237,745	127,479,233	42,501,253	8,500,251
Ag, Commercial and Industrial Total		**169,663**	**$7,867,279**	**977,168,019**	**263,936,627**	**88,899,671**	**34,216**	**$940,762**	**244,639,483**	**103,548,937**	**20,709,787**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	130,450	$8,373,083				24,153	$1,592,698			
Water Heater Storage	Water heater storage.	1,867	$136,759				294	$24,146			
Air Conditioning Load Control	Load control for air conditioning	48,429	$4,063,881				8,680	$811,971			
Space Heating Load Control (Interruptible)	Load control for space heating.	58,980	$6,397,021				10,429	$1,222,183			
Residential Time-of-Day Price	Residential time of day price.	1,791	$94,000				574	$53,737			
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	Dual fuel for space heating and air conditioning.	295	$20,006				59	$4,660			
Dual-Fuel Space Heating	Duel fuel space heating	14,390	$2,996,109				2,704	$658,688			
Crop Drying											
Off Peak Pricing	Crop drying off peak pricing.	70	$13,844				10				
Load Control	Crop drying load control.	245	$12,926				118	$11,746			
Irrigation											
Time of Use Pricing	Irrigation time of use prices.	40	$9,054				27	$5,431			
Load Control	Irrigation load control.	2,848	$240,468				568	$45,209			
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price	180	$68,378				82	$26,409			
Industrial Interruptible Price	Industrial Interruptible Price	355	$9,884,999				151	$1,750,880			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	1,845	$773,412				115	$100,552			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	899	$705,690				70	$260,451			
Energy Audit Services - Residential *	Energy Audit Services - Residential	9,102	$2,207,268				648	$167,428			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	15,250	$311,723				14,424	$60,610			
Domestic Water Heater Enhancement	Domestic Water Heater Enhancement	41,855	$60,265								
Member Information and Education	Member Information and Education	1,788,232	$4,271,497				154,694	$1,406,816			
Peak Alert	Peak Alert	541,427	$66,979				49,982	$7,821			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	439,399	$1,283,215				57,896	$189,349			
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	649,852	$2,603,333				161,109	$538,504			
TOTAL		**4,566,164**	**$83,176,154**	**3,899,003,551**	**834,849,541**	**284,976,843**	**764,195**	**$15,254,533**	**821,930,203**	**318,262,541**	**63,689,625**
Percentage of 5 year plan goal achieved								**18%**	**21%**		**22%**

* 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 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	3,662	$68,026	12,196,811	1,355,201	73	2,021	$9,682	6,723,537	747,060	45
Flow Restrictors - Shower	2,554	$93,173	16,116,244	1,611,624	128	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	1,578	$121,941	3,838,842	348,986	126	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	**122,748**	**$5,429,382**	**515,793,200**	**35,491,166**	**8,986**	**243,192**	**$5,374,485**	**577,290,719**	**42,979,838**	**18,605**

	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	959	$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					
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**
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			
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			17,800
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	**895,274**	**$15,707,318**	**720,621,400**	**52,842,368**	**123,885**	**764,195**	**$15,254,533**	**821,930,203**	**63,689,625**	**134,020**
Percentage of 5 year plan goal achieved										

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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	988	$179,138	4,415,075	315,363	316
ENERGY STAR Qualified Room Air Conditioner	275	$9,782	226,334	25,148	25	284	$9,800	231,812	25,757	26
Geothermal Heat Pump	869	$1,840,543	229,723,647	11,486,182	713	937	$1,969,123	247,671,472	12,383,574	753
Air Source Heat Pump	946	$748,586	111,206,848	7,413,790	756	989	$780,720	116,253,624	7,750,242	784
Heat Recovery Ventilators	141	$22,647	1,756,611	87,831		151	$24,164	1,881,017	94,051	
Residential Contractor Rebates	786	$158,587				843	$169,805			
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	44,545	$104,380	21,255,344	2,911,691	2,673
Local CFL Rebate Program(s)	52,896	$193,375	25,176,265	3,448,803	3,174	52,611	$176,931	25,041,734	3,430,375	3,157
ENERGY STAR CFL Fixtures	518	$5,415	1,130,358	56,518	21	615	$6,390	1,342,027	67,101	25
T8 or better Lighting Fixtures	1,228	$13,714	936,024	57,075	17	1,387	$15,512	1,070,926	65,300	19
ENERGY STAR LED lighting	619	$5,876	827,573	45,976	25	739	$6,714	988,060	54,892	30
ENERGY STAR Ceiling Fan	182	$3,484	546,020	30,334	5	203	$3,878	609,033	33,835	6
CFL Recycling	15	$200				21	$295			
Exterior Lighting										
High Efficiency Exterior Lighting	1,154	$86,077	1,236,786	295,960	15	1,170	$86,606	1,257,243	300,309	15
LED Holiday Lighting	1,084	$4,303	1,010,722	84,227	271	1,212	$4,758	1,130,069	94,172	303
Residential Water Heating (low income included)										
High Efficiency Water Heater	2,909	$648,063	12,167,975	811,198	109	3,037	$679,966	12,567,641	837,843	112
Heat Pump Water Heater - (Add-On)	39	$15,225	748,614	74,861	8	45	$17,428	864,165	86,417	9
Heat Pump Water Heater - (Integrated)	141	$81,615	3,242,913	270,243	30	204	$117,346	4,690,138	390,845	43
Solar Water Heaters (w/ Electric auxiliary tank)	24	$10,568	535,626	44,635	5	36	$15,807	803,359	66,947	8
Drain Water Heat Recovery System	1	$375	23,443	781	0	1	$375	23,443	781	0
Flow Restrictors - Faucet	3,593	$77,041	11,964,350	1,329,372	72	3,821	$84,554	12,721,261	1,413,473	76
Flow Restrictors - Shower	2,421	$109,308	15,271,646	1,527,165	121	2,637	$122,411	16,630,983	1,663,098	132
Tank Insulation	451	$12,999	769,954	76,995	5	473	$14,559	807,549	80,755	5
Pipe Insulation	898	$16,515	1,598,805	106,587	18	940	$17,261	1,673,617	111,574	19
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	1,624	$124,116	3,950,357	359,123	130	1,641	$121,215	3,991,576	362,871	131
ENERGY STAR Qualified Dishwasher	1,334	$46,827	1,721,569	156,506	120	1,430	$48,713	1,845,707	167,792	129
ENERGY STAR Qualified Refrigerator	1,902	$62,039	2,995,193	199,680	19	2,028	$65,744	3,194,246	212,950	20
ENERGY STAR Qualified Dehumidifier	546	$16,711	1,540,124	128,344	11	564	$17,133	1,590,951	132,579	11
ENERGY STAR Qualified Freezer	1,045	$33,324	1,162,423	77,495	10	1,171	$37,788	1,302,903	86,860	12
Appliance Recycling	2,752	$195,718	26,968,533	3,000,384	498	2,615	$184,851	25,391,877	2,825,336	471
Efficient Television	327	$17,088	648,781	54,065	13	360	$18,693	714,260	59,522	14
Smart Strip	105	$656	116,550	11,655		130	$813	144,300	14,430	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	150	$101,576	4,963,953	165,465	27	163	$110,422	5,394,483	178,706	29
Advanced Lighting Package	52	$13,583	447,073	22,354	11	68	$17,653	584,615	29,231	15
Additional Low Income										
Energy Efficiency Kits	1,139	$46,553	11,571,324	1,285,703	148	1,087	$43,516	11,044,587	1,227,176	141
Weatherization Rebates	100	$53,210	2,916,743	98,318	16	108	$58,160	3,207,027	108,178	18
Building Shell - Existing Home Only										
Weatherization Rebates	1,683	$794,247	51,420,422	1,763,646	161	1,909	$891,486	58,711,556	2,014,745	181
Residential Total	**125,886**	**$5,838,188**	**554,295,445**	**37,576,552**	**9,315**	**131,163**	**$6,224,106**	**591,047,683**	**39,598,770**	**9,682**

Totals	2011 Estimated Achievable Potential					2012 Estimated Achievable Potential				
	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Projected Participants	Projected Cost	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	5,988	$14,181	3,357,570	929,652	359
High Efficiency Interior Lighting	24,618	$383,938	28,614,131	5,613,187	81	24,888	$343,997	28,691,039	5,693,105	82
Exterior Lighting										
High Efficiency Exterior Lighting	628	$22,694	852,371	189,176	7	645	$23,405	878,105	194,428	7
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	150	$9,153	224,179	14,945	10	155	$9,668	231,556	15,437	10
Air Cooled Chillers	53	$1,384	163,574	8,179	4	55	$1,428	169,746	8,487	4
Water Cooled Chillers						20	$150	106,560	5,328	6
Geothermal Heat Pump	215	$145,118	11,339,731	566,987	181	250	$162,597	12,704,088	635,204	185
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	52	$24,695	1,848,135	123,209	35	53	$24,579	1,868,613	124,574	35
Heat Recovery Ventilators	118	$27,765	4,546,471	227,324	68	129	$30,156	4,970,295	248,515	75
Commercial Contractor Rebate (GS & AS)	198	$10,305				241	$12,457			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	98	$26,840	861,954	57,464	9	101	$27,600	878,587	58,572	10
Heat Pump Water Heater	1	$375	23,110	1,926	0	1	$375	23,110	1,926	0
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	22	$2,463	100,255	8,355	1	28	$3,277	133,442	11,120	1
Ag/Commercial & Industrial Insulation										
Building Envelope	9	$13,451	810,682	34,032	3	9	$13,364	810,682	34,032	3
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	549	$197,231	5,867,361	391,157	49	550	$197,628	5,877,974	391,865	50
Variable Speed Drive Motor Incentive	217	$83,627	80,388,754	5,359,250	454	219	$89,984	81,129,233	5,408,616	458
Agricultural										
Dairy Pre-coolers Incentive	13	$16,282	1,909,195	127,280	62	13	$16,267	1,909,195	127,280	62
Dairy Heat Reclaimer	7	$3,467	1,159,292	77,286	38	7	$3,453	1,159,292	77,286	38
Livestock Ventilation Fans	289	$30,198	1,711,976	142,665	38	324	$34,062	1,944,420	162,035	44
Ventilation Thermostat Controller	24	$782	65,107	5,426	1	28	$907	75,952	6,329	1
Circulating Fans --- BESS Lab Ratings	179	$49,874	3,074,850	216,277	50	203	$61,341	3,769,210	264,151	61
Scroll compressor (milk cooling)	14	$6,824	773,481	51,565	6	14	$6,816	773,481	51,565	6
Efficient Livestock Waterers	117	$7,653	1,109,734	92,478		130	$8,452	1,233,038	102,753	
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0	2	$125	19,221	1,068	0
Variable Speed Drive Motor - Dairy Vacuum Pump	14	$19,589	3,095,964	182,116	15	15	$20,081	3,316,427	195,084	16
Hog Farrowing - Heat Lamps (<= 175W)	366	$1,428	243,849	60,962		417	$1,619	277,808	69,452	
Hog Farrowing - Single Crate Heating Pads (<=85W)	94	$3,036	187,826	18,783		106	$3,410	211,778	21,178	
Hog Farrowing - Double Crate Heating Pads(<=170W)	18	$1,129	72,328	7,233		18	$1,129	72,328	7,233	
Hog Farrowing - Heat Lamp or Pad Controller	74	$726	576,058	35,125		74	$722	576,058	35,125	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	93	$467,418	34,827,589	2,838,467	445	97	$472,923	35,409,063	2,887,696	464
Ag, Commercial and Industrial Total	**33,957**	**$1,571,317**	**187,680,819**	**17,341,609**	**1,901**	**34,780**	**$1,586,153**	**192,577,868**	**17,769,097**	**1,976**
II. Demand Response Programs										
Water Heater Load Control	25,421	$1,607,826			12,932	26,051	$1,656,962			13,247
Water Heater Storage	366	$26,994			366	373	$27,337			373
Air Conditioning Load Control	9,183	$788,391			6,428	9,669	$812,064			6,768
Space Heating Load Control (Interruptible)	11,306	$1,249,444			51,094	11,784	$1,278,481			53,247
Residential Time-of-Day Price	340	$17,350				440	$26,850			
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	59	$3,838			354	59	$3,994			354
Dual-Fuel Space Heating	2,878	$592,471			17,268	2,878	$599,025			17,268
Crop Drying										
Off Peak Pricing	14	$2,769			28	14	$2,769			28
Load Control	48	$2,510			96	49	$2,582			98
Irrigation										
Time of Use Pricing	8	$1,769			53	8	$1,810			53
Load Control	560	$46,655			3,696	569	$48,052			3,755
Commercial and Industrial Time-of-Day Price	34	$12,978				35	$13,566			
Industrial Interruptible Price	66	$1,956,774			23,676	71	$1,941,764			22,999
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	326	$128,924				336	$131,678			
Expert Energy Services - C&I	176	$137,697				178	$139,848			
Energy Audit Services - Residential *	1,746	$439,907				1,826	$437,635			
IV. Educational & Research Programs										
Model Housing Education	3,030	$62,212				3,050	$62,338			
Domestic Water Heater Enhancement	9,651	$12,025				9,676	$12,050			
Member Information and Education	354,747	$813,218				356,680	$840,543			
Peak Alert	106,965	$11,239				107,303	$11,478			
Living with Energy in Iowa	88,320	$261,963				88,883	$263,425			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	129,301	$518,019				130,251	$523,617			
TOTAL	**904,388**	**$16,104,478**	**741,976,264**	**54,918,161**	**127,206**	**916,127**	**$16,648,126**	**783,625,550**	**57,367,867**	**129,847**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	1,013	$183,275	4,513,411	322,386	324	1,044	$188,016	4,642,171	331,584	334
ENERGY STAR Qualified Room Air Conditioner	299	$10,238	243,025	27,003	27	313	$10,649	253,588	28,176	28
Geothermal Heat Pump	986	$2,062,020	260,616,778	13,030,839	788	1,037	$2,155,401	274,095,131	13,704,757	828
Air Source Heat Pump	1,016	$800,690	119,420,385	7,961,359	799	1,046	$822,600	122,940,593	8,196,040	818
Heat Recovery Ventilators	156	$24,858	1,943,264	97,163		161	$25,544	2,005,512	100,276	
Residential Contractor Rebates	887	$178,605				931	$187,405			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	47,536	$110,596	22,689,067	3,108,091	2,852	49,691	$115,055	23,722,524	3,249,661	2,981
Local CFL Rebate Program(s)	50,269	$148,134	23,929,574	3,278,024	3,016	49,212	$145,127	23,430,541	3,209,663	2,953
ENERGY STAR CFL Fixtures	617	$6,369	1,346,391	67,320	25	635	$6,513	1,385,670	69,284	25
T8 or better Lighting Fixtures	1,516	$16,917	1,182,510	72,104	21	1,608	$17,846	1,265,110	77,141	23
ENERGY STAR LED lighting	848	$7,413	1,133,878	62,993	34	948	$7,870	1,267,706	70,428	38
ENERGY STAR Ceiling Fan	221	$4,205	663,016	36,834	7	234	$5,192	701,979	38,999	7
CFL Recycling	25	$300				31	$395			
Exterior Lighting										
High Efficiency Exterior Lighting	1,174	$86,650	1,261,476	301,139	15	1,199	$87,350	1,289,329	308,548	16
LED Holiday Lighting	1,319	$5,154	1,229,836	102,486	330	1,436	$5,626	1,338,926	111,577	359
Residential Water Heating (low income included)										
High Efficiency Water Heater	3,056	$687,001	12,654,003	843,600	113	3,197	$707,522	13,166,235	877,749	118
Heat Pump Water Heater - (Add-On)	49	$18,881	941,199	94,120	10	53	$20,349	1,018,233	101,823	11
Heat Pump Water Heater - (Integrated)	258	$149,701	5,931,181	494,265	54	344	$199,403	7,906,322	658,860	72
Solar Water Heaters (w/ Electric auxiliary tank)	46	$20,238	1,026,203	85,517	10	57	$24,987	1,271,492	105,958	12
Drain Water Heat Recovery System	1	$375	23,443	781	0	1	$375	23,443	781	0
Flow Restrictors - Faucet	3,934	$86,584	13,095,976	1,455,108	79	3,939	$87,818	13,111,805	1,456,867	79
Flow Restrictors - Shower	2,753	$125,810	17,360,503	1,736,050	138	2,816	$128,049	17,757,482	1,775,748	141
Tank Insulation	474	$14,568	809,246	80,925	5	476	$14,596	812,652	81,265	5
Pipe Insulation	950	$17,328	1,691,420	112,761	19	970	$17,445	1,727,038	115,136	19
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	1,608	$112,302	3,910,694	355,518	129	1,670	$116,215	4,061,785	369,253	134
ENERGY STAR Qualified Dishwasher	1,510	$50,565	1,949,128	177,193	136	1,635	$54,358	2,110,791	191,890	147
ENERGY STAR Qualified Refrigerator	2,149	$69,276	3,385,334	225,689	21	2,276	$72,915	3,585,890	239,059	23
ENERGY STAR Qualified Dehumidifier	583	$16,519	1,644,614	137,051	12	601	$17,983	1,695,441	141,287	12
ENERGY STAR Qualified Freezer	1,293	$41,624	1,438,921	95,928	13	1,422	$44,820	1,582,747	105,516	14
Appliance Recycling	2,681	$189,466	26,019,315	2,895,460	483	2,731	$194,609	26,567,130	2,956,056	492
Efficient Television	377	$19,454	747,985	62,332	15	395	$20,256	783,693	65,308	16
Smart Strip	155	$969	172,050	17,205		179	$1,119	198,690	19,869	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	172	$116,973	5,692,761	189,759	31	180	$121,732	5,957,739	198,591	32
Advanced Lighting Package	78	$20,121	670,579	33,529	17	81	$20,763	696,368	34,818	18
Additional Low Income										
Energy Efficiency Kits	932	$36,364	9,473,040	1,052,560	121	865	$30,190	8,793,984	977,109	112
Weatherization Rebates	110	$58,421	3,286,281	111,003	18	110	$58,184	3,286,281	111,003	18
Building Shell - Existing Home Only										
Weatherization Rebates	2,096	$966,603	64,657,116	2,219,785	198	2,232	$1,024,447	69,491,577	2,386,720	209
Residential Total	**133,147**	**$6,464,566**	**616,753,604**	**40,943,883**	**9,859**	**135,756**	**$6,758,723**	**643,945,602**	**42,466,801**	**10,093**

Totals	2013 Estimated Achievable Potential					2014 Estimated Achievable Potential				
	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Projected Participants	Projected Cost	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	6,144	$14,388	3,443,768	953,574	369	6,279	$14,511	3,518,922	974,416	377
High Efficiency Interior Lighting	25,751	$332,188	29,453,540	5,879,243	84	26,112	$331,557	29,038,783	5,894,946	84
Exterior Lighting										
High Efficiency Exterior Lighting	660	$24,915	901,608	199,225	7	676	$26,272	926,227	204,249	7
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	160	$10,218	238,934	15,929	10	163	$10,523	243,369	16,225	10
Air Cooled Chillers	56	$1,444	172,831	8,642	4	57	$1,461	175,917	8,796	4
Water Cooled Chillers										
Geothermal Heat Pump	236	$154,740	12,208,795	610,440	183	233	$152,152	12,181,938	609,097	183
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	54	$24,797	1,891,939	126,129	35	56	$25,610	1,941,438	129,429	36
Heat Recovery Ventilators	145	$31,805	5,589,527	279,476	84	153	$33,264	5,898,039	294,902	89
Commercial Contractor Rebate (GS & AS)	222	$11,423				221	$11,309			
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	103	$28,110	889,676	59,312	10	105	$28,620	900,765	60,051	10
Heat Pump Water Heater	1	$375	23,110	1,926	0	1	$375	23,110	1,926	0
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	29	$3,197	127,687	10,641	1	26	$3,054	110,041	9,170	1
Ag/Commercial & Industrial Insulation										
Building Envelope	9	$13,277	810,682	34,032	3	9	$13,192	810,682	34,032	3
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	551	$197,774	5,888,587	392,572	50	553	$198,292	5,909,890	393,993	50
Variable Speed Drive Motor Incentive	220	$91,120	81,499,473	5,433,298	460	224	$95,219	82,983,085	5,532,206	469
Agricultural										
Dairy Pre-coolers Incentive	13	$16,252	1,909,195	127,280	62	17	$18,737	2,497,606	166,507	82
Dairy Heat Reclaimer	7	$3,440	1,159,292	77,286	38	11	$4,926	1,823,094	121,540	60
Livestock Ventilation Fans	341	$35,358	2,053,588	171,132	46	354	$34,318	2,141,570	178,464	48
Ventilation Thermostat Controller	28	$902	75,952	6,329	1	28	$896	75,952	6,329	1
Circulating Fans — BESS Lab Ratings	212	$61,622	3,796,891	266,458	61	226	$61,833	3,854,198	271,233	63
Scroll compressor (milk cooling)	15	$6,995	828,843	55,256	7	15	$6,987	828,843	55,256	7
Efficient Livestock Waterers	136	$8,794	1,289,989	107,499		134	$8,629	1,270,779	105,898	
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0	2	$125	19,221	1,068	0
Variable Speed Drive Motor - Dairy Vacuum Pump	15	$20,051	3,316,427	195,084	16	15	$20,021	3,316,427	195,084	16
Hog Farrowing - Heat Lamps (<= 175W)	435	$1,679	289,795	72,449		447	$1,715	297,783	74,446	
Hog Farrowing - Single Crate Heating Pads (<=85W)	109	$3,490	217,762	21,776		110	$3,504	219,757	21,976	
Hog Farrowing - Double Crate Heating Pads(<=170W)	18	$1,129	72,328	7,233		18	$1,129	72,328	7,233	
Hog Farrowing - Heat Lamp or Pad Controller	12	$769	92,997	5,671		12	$765	92,997	5,671	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	102	$473,980	36,056,759	2,950,170	486	105	$475,064	36,589,182	2,994,495	505
Ag, Commercial and Industrial Total	**35,786**	**$1,574,354**	**194,319,192**	**18,069,129**	**2,017**	**36,362**	**$1,584,061**	**197,761,939**	**18,368,635**	**2,102**
II. Demand Response Programs										
Water Heater Load Control	26,686	$1,707,379			13,564	27,326	$1,759,119			13,884
Water Heater Storage	380	$27,695			380	388	$28,068			388
Air Conditioning Load Control	10,168	$836,450			7,118	10,689	$861,568			7,482
Space Heating Load Control (Interruptible)	12,273	$1,308,441			55,446	12,776	$1,339,356			57,711
Residential Time-of-Day Price	580	$26,850				31	$7,850			
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	59	$4,158			354	59	$4,327			354
Dual-Fuel Space Heating	2,878	$605,776			17,268	2,878	$612,729			17,268
Crop Drying										
Off Peak Pricing	14	$2,769			28	14	$2,769			28
Load Control	50	$2,657			100	51	$2,735			102
Irrigation										
Time of Use Pricing	8	$1,852			53	8	$1,895			53
Load Control	579	$49,491			3,821	591	$50,973			3,901
Commercial and Industrial Time-of-Day Price	38	$14,306				40	$15,053			
Industrial Interruptible Price	76	$2,012,468			23,300	80	$2,083,815			23,578
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	350	$135,080				361	$138,123			
Expert Energy Services - C&I	182	$142,685				186	$145,549			
Energy Audit Services - Residential *	1,863	$448,177				1,910	$462,119			
IV. Educational & Research Programs										
Model Housing Education	3,070	$62,471				3,090	$62,610			
Domestic Water Heater Enhancement	9,701	$12,075				3,201	$12,115			
Member Information and Education	358,602	$858,143				360,557	$852,108			
Peak Alert	107,730	$11,725				107,980	$21,537			
Living with Energy in Iowa	89,432	$264,602				89,942	$266,186			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	130,835	$530,656				131,612	$538,019			
TOTAL	**924,487**	**$17,104,824**	**811,072,796**	**59,013,011**	**133,308**	**925,888**	**$17,611,407**	**841,707,541**	**60,835,437**	**136,943**
Percentage of 5 year plan goal achieved										

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

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 14. 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.

Access Energy Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	17	$7,161	15,115	8,397	1,679
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	42	$140,359	11,154,301	2,788,575	557,715
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	6	$10,084	706,892	235,631	47,126
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	1,888	$3,449	902,609	618,226	123,645
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	103	$20,211	356,710	118,903	23,781
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	139	$2,250	879,453	439,727	87,945
Tank Insulation	Incentive for water heater tank insulation.	417	$31,970	712,820	188,889	71,282	139	$4,500	237,607	118,803	23,761
Pipe Insulation	Incentive for water pipe insulation.	417	$12,840	742,906	131,241	49,527	139	$525	247,635	82,545	16,509
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	135	$18,411	242,307	110,140	22,028
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	189	$13,266	244,615	99,423	22,238	73	$7,781	94,481	42,946	8,589
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
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	560	$398,008	23,105,372	2,634,070	802,603	99	$48,747	2,375,705	433,072	86,614
Residential Total		**5,419**	**$1,333,960**	**77,354,393**	**12,420,808**	**3,979,906**	**2,920**	**$303,033**	**17,709,912**	**5,260,179**	**1,052,036**
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	816	$15,530	3,782,001	2,491,106	498,221
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.	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					
Ag, Commercial and Industrial Total		**13,052**	**$440,002**	**25,381,807**	**11,508,383**	**3,532,365**	**816**	**$15,530**	**3,782,001**	**2,491,106**	**498,221**
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				2	$12,475			
Energy Audit Services - Residential *	Energy Audit Services - Residential	610	$321,000				139	$65,891			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	34,290	$730,000				6,867	$145,845			
Peak Alert	Peak Alert	34,290	$4,250				6,867	$585			
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				6,867	$22,580			
TOTAL		**121,983**	**$2,973,583**	**102,736,200**	**23,929,191**	**7,512,271**	**24,478**	**$565,939**	**21,491,913**	**7,751,285**	**1,550,257**
Percentage of 5 year plan goal achieved								**19%**	**21%**		**21%**

* 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
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
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**
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**
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 progra

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	12	$766	10,669	1,185	1
Geothermal Heat Pump	35	$121,625	9,295,251	464,763	54	30	$104,250	7,967,358	398,368	46
Air Source Heat Pump	6	$17,028	706,892	47,126	6	5	$14,190	589,077	39,272	5
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	800	$20,366	382,462	52,392	48	800	$20,366	382,462	52,392	48
Residential Water Heating (low income included)										
High Efficiency Water Heater	80	$9,870	119,880	7,992	2	100	$12,338	149,850	9,990	2
Flow Restrictors - Faucet	80	$4,724	266,933	29,659	2	100	$5,905	333,666	37,074	2
Flow Restrictors - Shower	80	$10,936	506,160	50,616	4	100	$13,670	632,700	63,270	5
Tank Insulation	80	$6,133	136,752	13,675	1	100	$7,667	170,940	17,094	1
Pipe Insulation	80	$2,463	142,524	9,502	2	100	$3,079	178,155	11,877	2
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	115	$15,881	280,830	25,530	9	70	$9,667	170,940	15,540	6
ENERGY STAR Qualified Dishwasher	50	$3,510	64,713	5,883	5	25	$1,755	32,357	2,942	2
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Building Shell - Existing Home Only										
Weatherization Rebates	86	$57,856	3,292,704	115,211	8	100	$69,698	4,030,632	140,415	10
Residential Total	**1,511**	**$271,606**	**15,211,994**	**824,226**	**141**	**1,542**	**$263,351**	**14,648,805**	**789,419**	**130**

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	4,822	$128,725	6,714,076	1,049,074	14	3,000	$79,000	4,177,152	652,680	9
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0	1	$1,471	17,360	868	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1	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	$11,926	444,000	44,400	12
Ag, Commercial and Industrial Total	**4,825**	**$143,398**	**7,247,614**	**1,099,154**	**28**	**3,003**	**$93,673**	**4,710,690**	**702,760**	**22**

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural						2	$400			
Expert Energy Services - C&I	4	$12,000				3	$9,000			
Energy Audit Services - Residential *	100	$62,000				120	$64,000			
IV. Educational & Research Programs										
Member Information and Education	6,852	$146,000				6,855	$146,000			
Peak Alert	6,852	$850				6,855	$850			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,852	$22,170				6,855	$20,000			
TOTAL	**26,996**	**$658,024**	**22,459,608**	**1,923,380**	**169**	**25,235**	**$597,274**	**19,359,496**	**1,492,179**	**152**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	12	$766	10,669	1,185	1
Geothermal Heat Pump	30	$104,250	7,967,358	398,368	46	30	$104,250	7,967,358	398,368	46
Air Source Heat Pump	5	$14,190	589,077	39,272	5	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	100	$2,546	47,808	6,549	6
Residential Water Heating (low income included)										
High Efficiency Water Heater	100	$12,338	149,850	9,990	2	100	$12,338	149,850	9,990	2
Flow Restrictors - Faucet	100	$5,905	333,666	37,074	2	100	$5,905	333,666	37,074	2
Flow Restrictors - Shower	100	$13,670	632,700	63,270	5	100	$13,670	632,700	63,270	5
Tank Insulation	100	$7,667	170,940	17,094	1	100	$7,667	170,940	17,094	1
Pipe Insulation	100	$3,079	178,155	11,877	2	100	$3,079	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 *										
Building Shell - Existing Home Only										
Weatherization Rebates	100	$69,698	4,030,632	140,415	10	100	$69,698	4,030,632	140,415	10
Residential Total	**747**	**$234,109**	**14,110,855**	**725,094**	**80**	**747**	**$234,109**	**14,110,855**	**725,094**	**80**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	2,400	$60,000	3,341,722	522,144	7	1,990	$50,000	2,770,844	432,944	6
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0	1	$1,471	17,360	868	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1	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	$11,926	444,000	44,400	12
Ag, Commercial and Industrial Total	**2,403**	**$74,673**	**3,875,260**	**572,224**	**20**	**1,993**	**$64,673**	**3,304,382**	**483,024**	**19**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$400				2	$400			
Expert Energy Services - C&I	3	$9,000				3	$9,000			
Energy Audit Services - Residential *	120	$64,000				120	$64,000			
IV. Educational & Research Programs										
Member Information and Education	6,858	$146,000				6,861	$146,000			
Peak Alert	6,858	$850				6,861	$850			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,858	$20,000				6,861	$20,000			
TOTAL	**23,849**	**$549,032**	**17,986,115**	**1,297,318**	**100**	**23,448**	**$539,032**	**17,415,237**	**1,208,118**	**99**
Percentage of 5 year plan goal achieved										

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

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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 14. 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.

Allamakee-Clayton Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	27	3,750	68,407	24,431	4,886
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	23	$575	13,097	7,276	1,455
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	28	$21,122	7,436,201	1,859,050	371,810
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	9	$3,690	1,060,339	353,446	70,689
Heat Recovery Ventilators	Rebate for heat recovery ventilators.						2	$120	25,042	6,260	1,252
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	2,263	$2,263	1,081,888	741,019	148,204
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	4,693	$11,733	2,243,615	874,881	307,345					
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	117	$1,463	80,935	14,088	4,935					
ENERGY STAR LED lighting	Rebate for LED lighting.	87	$218	116,463	18,444	6,470	44	$88	58,901	16,361	3,272
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					
LED Holiday Lighting	Rebate for holiday lighting.	146	$1,460	136,130	32,323	11,344	316	$631	294,638	122,766	24,553
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	31	$7,175	171,878	57,293	11,459
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	10	$3,750	231,102	57,776	19,259	1	$300	23,110	9,629	1,926
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					
Flow Restrictors - Shower	Incentive for low-flow shower head.	298	$1,863	1,885,446	536,530	188,545					
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	232	$5,800	566,544	257,520	51,504
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	322	$10,063	416,752	107,777	37,887	109	$2,725	141,074	64,125	12,825
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	527	$16,469	833,582	158,280	55,572	187	$4,675	295,787	98,596	19,719
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	87	$1,631	246,833	58,635	20,569	30	$750	85,115	35,465	7,093
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	77	$3,800	807,279	448,829	89,766
Smart Strip	Incentive for smart power supply strip.	175	$1,094	194,250	52,725	19,425					
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					
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**	**3,410**	**$58,239**	**12,163,882**	**4,113,593**	**822,719**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	609	$3,105	754,550	580,819	116,164
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					
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	5	$625	15,485	3,097	1,032					
Geothermal Heat Pump	Rebate for geothermal heat pump.	9	$10,125	2,390,207	331,973	119,510					
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					
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					
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					
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	9	$5,625	1,323,925	186,330	88,262					
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	9	$3,375	1,493,555	210,204	99,570					
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	35	$2,100	919,346	207,947	76,612	5	$120	25,974	10,823	2,165
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	12	$2,250	664,335	121,795	44,289	11	$5,179	608,974	202,991	40,598
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	15	$938	143,057	35,764	11,921	13	$650	123,983	51,659	10,332
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.						1	$300	222,043	65,307	13,061
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		10	$7,300	2,331,000	466,200	155,400	2	$7,699	3,381,540	1,127,180	225,436
Ag, Commercial and Industrial Total		**751**	**$49,618**	**13,217,219**	**2,707,923**	**989,172**	**654**	**$17,118**	**5,124,129**	**2,048,591**	**409,718**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	15,118	$223,163				2,622	$31,639			
Water Heater Storage	Water heater storage.	707	$21,938				181	$15,123			
Air Conditioning Load Control	Load control for air conditioning	60	$6,377				102	$44,652			
Space Heating Load Control (Interruptible)	Load control for space heating.	5,084	$274,912				916	$50,635			
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	Dual fuel for space heating and air conditioning.	60	$10,747				9	$2,200			
Crop Drying											
Load Control	Crop drying load control.	145	$7,526				28	$1,540			
Irrigation											
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price	12	$27,629				21	$18,477			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	469	$106,976				25	$4,399			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	10	$2,674				2	$1,100			
Energy Audit Services - Residential *	Energy Audit Services - Residential	270	$79,547				28	$16,277			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	1,100	$13,268				6,896	$18,037			
Member Information and Education	Member Information and Education	35,000	$133,537				6,896	$13,237			
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				6,896	$15,735			
TOTAL		**143,300**	**$1,503,660**	**75,588,304**	**14,818,776**	**5,216,468**	**28,686**	**$308,408**	**17,288,010**	**6,162,184**	**1,232,437**
Percentage of 5 year plan goal achieved								**21%**	**23%**		**24%**

* 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 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					
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**

	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					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	4	$1,000	22,178	1,479	0					
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
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**

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										
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 progra

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	33	$6,375	103,683	7,406	11
ENERGY STAR Qualified Room Air Conditioner	22	$688	12,527	1,392	2	23	$719	13,097	1,455	2
Geothermal Heat Pump	22	$24,750	5,842,729	292,136	34	23	$25,875	6,108,308	305,415	35
Air Source Heat Pump	16	$7,200	1,885,046	125,670	16	17	$7,650	2,002,862	133,524	17
Heat Recovery Ventilators										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,000	$2,190	478,077	65,490	60	1,000	$2,190	478,077	65,490	60
Local CFL Rebate Program(s)	864	$2,160	413,059	56,583	52	933	$2,333	446,046	61,102	56
T8 or better Lighting Fixtures	22	$275	15,219	928	0	23	$288	15,910	970	0
ENERGY STAR LED lighting	16	$40	21,419	1,190	1	17	$43	22,757	1,264	1
Exterior Lighting										
High Efficiency Exterior Lighting	24	$450	31,152	6,799	0	26	$488	34,579	7,521	0
LED Holiday Lighting	27	$270	25,175	2,098	7	29	$290	27,040	2,253	7
Residential Water Heating (low income included)										
High Efficiency Water Heater	54	$13,500	299,400	19,960	3	58	$14,500	321,578	21,439	3
Heat Pump Water Heater - (Integrated)	2	$750	46,220	3,852	0	2	$750	46,220	3,852	0
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0	1	$375	22,444	1,870	0
Flow Restrictors - Faucet	110	$138	367,033	40,781	2	120	$150	400,399	44,489	2
Flow Restrictors - Shower	55	$344	347,985	34,799	3	60	$375	379,620	37,962	3
Pipe Insulation	55	$228	97,985	6,532	1	60	$249	106,893	7,126	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	162	$10,125	395,604	35,964	13	175	$10,938	427,350	38,850	14
ENERGY STAR Qualified Dishwasher	59	$1,844	76,361	6,942	5	64	$2,000	82,833	7,530	6
ENERGY STAR Qualified Refrigerator	97	$3,031	153,430	10,229	1	105	$3,281	166,084	11,072	1
ENERGY STAR Qualified Dehumidifier	16	$300	45,395	3,783	0	17	$319	48,232	4,019	0
ENERGY STAR Qualified Freezer	22	$688	24,542	1,636	0	23	$719	25,658	1,711	0
Appliance Recycling	16	$1,000	154,216	17,135	3	18	$1,125	172,088	19,121	3
Smart Strip	30	$188	33,300	3,330		35	$219	38,850	3,885	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	6	$4,500	199,800	6,660	1	7	$5,250	233,100	7,770	1
Additional Low Income										
Energy Efficiency Kits	27	$338	274,585	30,509	4	29	$363	294,925	32,769	4
Building Shell - Existing Home Only										
Weatherization Rebates	6	$1,500	228,205	7,910	1	9	$2,250	342,307	11,865	1
Residential Total	**2,762**	**$82,807**	**11,587,629**	**791,087**	**219**	**2,907**	**$89,110**	**12,360,939**	**841,732**	**231**

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	104	$1,135	292,981	42,546	1
Exterior Lighting										
High Efficiency Exterior Lighting	15	$281	16,725	3,413	0	18	$338	20,070	4,096	0
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0	1	$125	3,097	206	0
Geothermal Heat Pump	2	$2,250	531,157	26,558	30	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	1	$450	117,815	7,854	10
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	4	$1,000	22,178	1,479	0	5	$1,250	27,722	1,848	0
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$375	326,507	21,767	0	1	$375	326,507	21,767	0
Agricultural										
Dairy Pre-coolers Incentive	1	$625	147,103	9,807	5	1	$625	147,103	9,807	5
Dairy Heat Reclaimer	1	$375	165,951	11,063	5	1	$375	165,951	11,063	5
Livestock Ventilation Fans	6	$360	157,602	13,134	1	7	$420	183,869	15,322	1
Scroll compressor (milk cooling)	2	$375	110,723	7,382	1	2	$375	110,723	7,382	1
Efficient Livestock Waterers	3	$188	28,611	2,384		3	$188	28,611	2,384	
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$1,460	466,200	31,080	16	2	$1,460	466,200	31,080	16
Ag, Commercial and Industrial Total	**139**	**$8,946**	**2,374,106**	**176,961**	**69**	**148**	**$9,365**	**2,421,806**	**181,915**	**69**

II. Demand Response Programs										
Water Heater Load Control	2,986	$42,406			1,493	3,023	$44,527			1,512
Water Heater Storage	134	$4,169			134	141	$4,377			141
Air Conditioning Load Control	11	$1,212			8	12	$1,272			8
Space Heating Load Control (Interruptible)	966	$52,240			4,347	1,014	$54,852			4,564
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	12	$2,042			72	12	$2,144			72
Crop Drying										
Load Control	28	$1,430			56	29	$1,502			58
Irrigation										
Commercial and Industrial Time-of-Day Price	2	$5,250				2	$5,513			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	86	$20,328				93	$21,344			
Expert Energy Services - C&I	2	$508				2	$534			
Energy Audit Services - Residential *	54	$15,116				54	$15,872			
IV. Educational & Research Programs										
Model Housing Education	210	$2,521				220	$2,647			
Member Information and Education	7,000	$25,375				7,000	$26,644			
Peak Alert	7,000					7,000				
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,000	$18,152				7,000	$19,044			
TOTAL	**28,392**	**$282,502**	**13,961,735**	**968,048**	**6,398**	**28,658**	**$298,747**	**14,782,745**	**1,023,646**	**6,655**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	39	$7,500	122,082	8,720	13
ENERGY STAR Qualified Room Air Conditioner	25	$781	14,236	1,582	2	27	$844	15,375	1,708	2
Geothermal Heat Pump	25	$28,125	6,639,465	331,973	39	27	$30,375	7,170,622	358,531	42
Air Source Heat Pump	19	$8,550	2,238,493	149,233	19	20	$9,000	2,356,308	157,087	20
Heat Recovery Ventilators										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,000	$2,190	478,077	65,490	60	1,000	$2,190	478,077	65,490	60
Local CFL Rebate Program(s)	1,008	$2,520	481,902	66,014	60	1,088	$2,720	520,148	71,253	65
T8 or better Lighting Fixtures	25	$313	17,294	1,055	0	27	$338	18,677	1,139	0
ENERGY STAR LED lighting	19	$48	25,435	1,413	1	20	$50	26,773	1,487	1
Exterior Lighting										
High Efficiency Exterior Lighting	28	$525	36,582	7,976	0	31	$581	41,010	8,927	0
LED Holiday Lighting	31	$310	28,904	2,409	8	34	$340	31,702	2,642	9
Residential Water Heating (low income included)										
High Efficiency Water Heater	63	$15,750	349,300	23,287	3	68	$17,000	377,023	25,135	3
Heat Pump Water Heater - (Integrated)	2	$750	46,220	3,852	0	2	$750	46,220	3,852	0
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0	1	$375	22,444	1,870	0
Flow Restrictors - Faucet	125	$156	417,083	46,343	3	68	$85	226,893	25,210	1
Flow Restrictors - Shower	65	$406	411,255	41,126	3	68	$425	430,236	43,024	3
Pipe Insulation	65	$270	115,801	7,720	1	70	$291	124,709	8,314	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	189	$11,813	461,538	41,958	15	204	$12,750	498,168	45,288	16
ENERGY STAR Qualified Dishwasher	69	$2,156	89,304	8,119	6	75	$2,344	97,070	8,825	7
ENERGY STAR Qualified Refrigerator	113	$3,531	178,738	11,916	1	122	$3,813	192,974	12,865	1
ENERGY STAR Qualified Dehumidifier	19	$356	53,906	4,492	0	20	$375	56,743	4,729	0
ENERGY STAR Qualified Freezer	25	$781	27,889	1,859	0	27	$844	30,120	2,008	0
Appliance Recycling	19	$1,188	182,897	20,322	3	21	$1,313	200,769	22,308	4
Smart Strip	40	$250	44,400	4,440		45	$281	49,950	4,995	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	8	$6,000	266,400	8,880	1	9	$6,750	299,700	9,990	2
Additional Low Income										
Energy Efficiency Kits	31	$388	315,264	35,029	4	34	$425	345,774	38,419	4
Building Shell - Existing Home Only										
Weatherization Rebates	12	$3,000	456,410	15,820	1	15	$3,750	570,512	19,775	2
Residential Total	**3,062**	**$97,469**	**13,512,118**	**912,239**	**246**	**3,162**	**$105,507**	**14,350,078**	**953,590**	**259**

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	118	$1,308	342,220	49,182	1
Exterior Lighting										
High Efficiency Exterior Lighting	19	$356	21,185	4,323	0	21	$394	23,415	4,779	0
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0	1	$125	3,097	206	0
Geothermal Heat Pump	2	$2,250	531,157	26,558	30	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	1	$450	117,815	7,854	10
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$1,250	27,722	1,848	0	5	$1,250	27,722	1,848	0
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$375	326,507	21,767	0	1	$375	326,507	21,767	0
Agricultural										
Dairy Pre-coolers Incentive	1	$625	147,103	9,807	5	5	$3,125	735,514	49,034	24
Dairy Heat Reclaimer	1	$375	165,951	11,063	5	5	$1,875	829,753	55,317	27
Livestock Ventilation Fans	8	$480	210,136	17,511	1	9	$540	236,403	19,700	1
Scroll compressor (milk cooling)	3	$563	166,084	11,072	1	3	$563	166,084	11,072	1
Efficient Livestock Waterers	3	$188	28,611	2,384		3	$188	28,611	2,384	
Variable Speed Drive Motor - Dairy Vacuum Pump										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$1,460	466,200	31,080	16	2	$1,460	466,200	31,080	16
Ag, Commercial and Industrial Total	**158**	**$9,718**	**2,529,168**	**191,340**	**69**	**176**	**$13,901**	**3,834,498**	**280,782**	**111**

II. Demand Response Programs										
Water Heater Load Control	3,061	$46,753			1,530	3,099	$49,090			1,550
Water Heater Storage	148	$4,596			148	156	$4,826			156
Air Conditioning Load Control	13	$1,336			9	14	$1,403			10
Space Heating Load Control (Interruptible)	1,065	$57,594			4,793	1,118	$60,474			5,032
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	12	$2,252			72	12	$2,364			72
Crop Drying										
Load Control	30	$1,577			60	31	$1,655			62
Irrigation										
Commercial and Industrial Time-of-Day Price	3	$5,788				3	$6,078			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	101	$22,412				109	$23,532			
Expert Energy Services - C&I	2	$560				2	$588			
Energy Audit Services - Residential *	54	$16,665				54	$17,498			
IV. Educational & Research Programs										
Model Housing Education	230	$2,780				240	$2,919			
Member Information and Education	7,000	$27,976				7,000	$29,375			
Peak Alert	7,000					7,000				
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,000	$19,997				7,000	$20,997			
TOTAL	**28,939**	**$317,472**	**16,041,286**	**1,103,579**	**6,927**	**29,176**	**$340,207**	**18,184,576**	**1,234,372**	**7,251**
Percentage of 5 year plan goal achieved										

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

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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 14. 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 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.

Atchison-Holt Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs. This includes the review of appliance efficiency minimum federal standards (such as SEER etc.) and also marketplace changes (market transformation of compact fluorescent light bulbs (CFLs).

Thank you.

Terry Zeigler
General Manager

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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.						2	$15,457	531,157	132,789	26,558
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.	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	7	$1,608	24,242	8,081	1,616
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**	**1,209**	**$23,458**	**1,129,092**	**533,810**	**106,762**
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**
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								
TOTAL		**1,945**	**$438,861**	**20,307,425**	**3,218,512**	**1,072,837**	**2,396**	**$25,458**	**1,129,092**	**533,810**	**106,762**
Percentage of 5 year plan goal achieved								**6%**	**6%**		**10%**

* 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**
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**
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								
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.

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	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	15	$382	7,171	982	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	6	$440	8,991	599	0	6	$440	8,991	599	0
Flow Restrictors - Faucet	5	$295	16,683	1,854	0	5	$295	16,683	1,854	0
Flow Restrictors - Shower	5	$684	31,635	3,164	0	5	$684	31,635	3,164	0
Tank Insulation	5	$383	8,547	855	0	5	$383	8,547	855	0
Pipe Insulation	5	$154	8,908	594	0	5	$154	8,908	594	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	19	$2,624	46,398	4,218	2	19	$2,624	46,398	4,218	2
ENERGY STAR Qualified Dishwasher	12	$842	15,531	1,412	1	12	$842	15,531	1,412	1
Building Shell - Existing Home Only										
Weatherization Rebates	44	$38,064	2,233,764	75,368	5	44	$38,064	2,233,764	75,368	5
Residential Total	**117**	**$46,306**	**2,495,444**	**96,900**	**10**	**117**	**$46,306**	**2,495,444**	**96,900**	**10**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	3	$1,437	3,281	626	0	3	$1,437	3,281	626	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0	1	$1,471	17,360	868	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1	1	$1,276	72,178	4,812	1
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5	1	$2,545	147,103	9,807	5
Livestock Ventilation Fans	1	$233	5,315	443	0	1	$233	5,315	443	0
Circulating Fans --- BESS Lab Ratings	2	$10,351	599,400	39,960	8	2	$10,351	599,400	39,960	8
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0	1	$1,064	55,361	3,691	0
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1	1	$3,664	222,043	13,061	1
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12	1	$11,926	444,000	44,400	12
Ag, Commercial and Industrial Total	**12**	**$33,966**	**1,566,041**	**117,668**	**28**	**12**	**$33,966**	**1,566,041**	**117,668**	**28**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$400				2	$400			
Expert Energy Services - C&I	2	$6,000				2	$6,000			
Energy Audit Services - Residential *	6	$600				6	$600			
IV. Educational & Research Programs										
Member Information and Education	250	$500				250	$500			
TOTAL	**389**	**$87,772**	**4,061,485**	**214,567**	**38**	**389**	**$87,772**	**4,061,485**	**214,567**	**38**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	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	15	$382	7,171	982	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	6	$440	8,991	599	0	6	$440	8,991	599	0
Flow Restrictors - Faucet	5	$295	16,683	1,854	0	5	$295	16,683	1,854	0
Flow Restrictors - Shower	5	$684	31,635	3,164	0	5	$684	31,635	3,164	0
Tank Insulation	5	$383	8,547	855	0	5	$383	8,547	855	0
Pipe Insulation	5	$154	8,908	594	0	5	$154	8,908	594	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	19	$2,624	46,398	4,218	2	19	$2,624	46,398	4,218	2
ENERGY STAR Qualified Dishwasher	12	$842	15,531	1,412	1	12	$842	15,531	1,412	1
Building Shell - Existing Home Only										
Weatherization Rebates	44	$38,064	2,233,764	75,368	5	44	$38,064	2,233,764	75,368	5
Residential Total	**117**	**$46,306**	**2,495,444**	**96,900**	**10**	**117**	**$46,306**	**2,495,444**	**96,900**	**10**

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

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$400				2	$400			
Expert Energy Services - C&I	2	$6,000				2	$6,000			
Energy Audit Services - Residential *	6	$600				6	$600			
IV. Educational & Research Programs										
Member Information and Education	250	$500				250	$500			
TOTAL	**389**	**$87,772**	**4,061,485**	**214,567**	**38**	**389**	**$87,772**	**4,061,485**	**214,567**	**38**
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 14. 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.

Boone Valley Electric Cooperative’s five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

			5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
			Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
	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.							3			
	Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.							$48			
	Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	5	$3,125	589,077	117,815	39,272		$20			
	Heat Recovery Ventilators	Rebate for heat recovery ventilators.							$1			
	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	51	$80	24,382	16,700	3,340
	T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	20	$150	13,835	2,278	844					
	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		$1			
	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	2	$219	6,926	2,309	462
	Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	35	$293	116,783	38,928	12,976	4	$21	13,347	7,415	1,483
	Flow Restrictors - Shower	Incentive for low-flow shower head.	20	$335	126,540	37,962	12,654	2	$21	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.							$6			
	ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	8	$250	10,354	2,471	941		$2			
	ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	6	$188	9,491	1,687	633		$3			
	ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	9	$281	10,040	1,859	669					
	Appliance Recycling	Incentives for appliance recycling.	10	$550	89,361	29,787	9,929		$7			
	Additional Low Income											
	Energy Efficiency Kits	Energy efficiency kit for low-income.							$1			
	Building Shell - Existing Home Only											
	Weatherization Rebates	Rebates for various insulation measures.	10	$3,492	356,427	29,966	12,826		$9			
	Residential Total		**561**	**$12,945**	**1,621,197**	**353,484**	**124,169**	**59**	**$442**	**57,309**	**32,751**	**6,550**
II. Demand Response Programs												
III. Energy Audit & Technical Support Programs												
	Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.							$357			
IV. Educational & Research Programs												
	Model Housing Education	Model housing education.							$132			
	Member Information and Education	Member Information and Education						111	$2,085			
	Living with Energy in Iowa	Living with Energy in Iowa magazine.						111	$233			
	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						111	$351			
	TOTAL		**561**	**$12,945**	**1,621,197**	**353,484**	**124,169**	**392**	**$3,600**	**57,309**	**32,751**	**6,550**
	Percentage of 5 year plan goal achieved								**28%**	**4%**		**5%**

* 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
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			
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**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	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)	44	$96	21,035	2,882	3	53	$116	25,338	3,471	3
Local CFL Rebate Program(s)	20	$75	9,562	1,310	1	24	$90	11,474	1,572	1
T8 or better Lighting Fixtures	3	$23	2,075	127	0	4	$30	2,767	169	0
ENERGY STAR LED lighting	1	$4	1,339	74	0	2	$8	2,677	149	0
Exterior Lighting										
LED Holiday Lighting	4	$10	3,730	311	1	4	$10	3,730	311	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$625	14,552	970	0	3	$625	14,552	970	0
Flow Restrictors - Faucet	7	$59	23,357	2,595	0	7	$59	23,357	2,595	0
Flow Restrictors - Shower	4	$67	25,308	2,531	0	4	$67	25,308	2,531	0
Tank Insulation	1	$6	1,709	171	0	1	$6	1,709	171	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer										
ENERGY STAR Qualified Dishwasher	1	$31	1,294	118	0	2	$63	2,589	235	0
ENERGY STAR Qualified Refrigerator	1	$31	1,582	105	0	1	$31	1,582	105	0
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0	2	$63	2,231	149	0
Appliance Recycling	2	$110	17,872	1,986	0	2	$110	17,872	1,986	0
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	1	$630	64,702	2,157		3	$954	97,242	3,556	0
Residential Total	**95**	**$2,455**	**308,163**	**23,339**	**7**	**113**	**$2,856**	**350,242**	**25,824**	**8**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
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										
TOTAL	**95**	**$2,455**	**308,163**	**23,339**	**7**	**113**	**$2,856**	**350,242**	**25,824**	**8**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	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	72	$158	34,422	4,715	4
Local CFL Rebate Program(s)	28	$105	13,386	1,834	2	32	$120	15,298	2,096	2
T8 or better Lighting Fixtures	5	$38	3,459	211	0	5	$38	3,459	211	0
ENERGY STAR LED lighting	3	$11	4,016	223	0	3	$11	4,016	223	0
Exterior Lighting										
LED Holiday Lighting	5	$13	4,662	389	1	5	$13	4,662	389	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$625	14,552	970	0	3	$625	14,552	970	0
Flow Restrictors - Faucet	7	$59	23,357	2,595	0	7	$59	23,357	2,595	0
Flow Restrictors - Shower	4	$67	25,308	2,531	0	4	$67	25,308	2,531	0
Tank Insulation	1	$6	1,709	171	0	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	2	$63	2,589	235	0
ENERGY STAR Qualified Refrigerator	1	$31	1,582	105	0	2	$63	3,164	211	0
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0	2	$63	2,231	149	0
Appliance Recycling	2	$110	17,872	1,986	0	2	$110	17,872	1,986	0
Additional Low Income										
Energy Efficiency Kits										
Building Shell - Existing Home Only										
Weatherization Rebates	3	$954	97,242	3,556	0	3	$954	97,242	3,556	0
Residential Total	**130**	**$2,906**	**359,898**	**26,935**	**9**	**144**	**$2,972**	**367,695**	**27,892**	**10**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
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										
TOTAL	**130**	**$2,906**	**359,898**	**26,935**	**9**	**144**	**$2,972**	**367,695**	**27,892**	**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. Butler County Rural Electric Cooperative (BCREC) 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 BCREC 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 used 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 14. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test, and participant test. These tests were performed in a collaborative manner by each electric power supplier group and were completed by a qualified independent third-party consultant. The analysis determined these programs were cost effective.

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; energy fair at our 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, we send a quarterly newsletter, "Contractor Connection," to every contractor, and 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. Most recently 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 has implemented involves four of our municipals. We have invited these communities to participate in a friendly "competition." This is a community-led program in which each community further educates their residents on energy efficiency and conservation and as a result, reduces energy use. This program puts 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, heat recovery ventilator, and lighting 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.

BCREC's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy-efficiency programs. We will continue to review and evaluate our progress toward our five-year goals to determine if any changes are needed to optimize the energy-efficiency programs. 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.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	9	1,815	37,296	13,320	2,664
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	25	$46,577	6,639,465	1,659,866	331,973
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	23	$16,421	2,709,754	903,251	180,650
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	70	$10,938	876,456	125,208	43,823	9	$1,142	112,687	28,172	5,634
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	1,225	$4,285	585,644	401,126	80,225
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	3,500	$13,125	1,673,270	622,155	229,215	8,888	$33,439	4,249,148	2,910,376	582,075
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	585	$4,388	415,324	75,974	25,325	31	$266	21,444	6,538	1,308
ENERGY STAR LED lighting	Rebate for LED lighting.	1,250	$4,688	1,673,325	278,888	92,963		$4			
Exterior Lighting											
LED Holiday Lighting	Rebate for holiday lighting.	2,000	$5,000	1,864,800	427,350	155,400	302	$1,581	281,585	117,327	23,465
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	84	$21,998	345,021	115,007	23,001
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.							$7			
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.						1	$414	23,110	9,629	1,926
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	1,258	$59,076	4,197,518	1,397,690	466,391	288	$877	960,958	533,866	106,773
Flow Restrictors - Shower	Incentive for low-flow shower head.	758	$35,596	4,795,866	1,436,229	479,587	144	$877	911,088	455,544	91,109
Pipe Insulation	Incentive for water pipe insulation.	758	$35,596	1,350,415	269,608	90,028	288		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	92	$6,296	224,664	102,120	20,424
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	85	$2,656	110,012	25,885	10,001	57	$1,952	73,773	33,533	6,707
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	220	$6,875	347,985	63,797	23,199	95	$3,227	150,266	50,089	10,018
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	170	$5,313	189,644	33,467	12,643	16	$538	17,849	5,950	1,190
Appliance Recycling	Incentives for appliance recycling.						85	$7,219	581,535	331,585	66,317
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.						1	$1,289	33,300	5,550	1,110
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	500	$12,500	5,084,910	1,694,970	564,990	80	$4,993	813,586	451,992	90,398
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	574	$238,430	18,220,101	1,632,448	643,568	57	$16,147	2,203,295	372,699	74,540
Residential Total		**23,656**	**$805,769**	**87,226,219**	**17,103,317**	**5,869,611**	**11,800**	**$171,363**	**21,488,555**	**8,678,568**	**1,735,714**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
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	690	$8,505	3,673,689	2,385,512	477,102
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					
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	10	$6,250	1,471,028	294,206	98,069					
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	3	$210	28,611	11,921	2,384
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**	**693**	**$8,715**	**3,702,300**	**2,397,434**	**479,487**
II. Demand Response Programs											
Water Heater Storage	Water heater storage.	510	$23,171				103	$3,523			
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	Dual fuel for space heating and air conditioning.	235	$9,259				50	$2,460			
Irrigation											
Time of Use Pricing	Irrigation time of use prices.	30	$7,054				6	$5,431			
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price	75	$18,408				21	$5,903			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	50	$30,106								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	150	$60,212				21	$16,754			
Energy Audit Services - Residential *	Energy Audit Services - Residential	250	$28,006				60	$1,432			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	45	$34,705				4,263	$3,167			
Member Information and Education	Member Information and Education	25,240	$41,660				4,263	$79,737			
Peak Alert	Peak Alert	25,240	$320								
Living with Energy in Iowa	Living with Energy in Iowa magazine.	25,240	$30,845				4,263	$12,766			
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				4,263	$15,774			
TOTAL		**126,441**	**$1,202,662**	**92,870,169**	**18,392,543**	**6,299,353**	**29,806**	**$327,024**	**25,190,855**	**11,076,002**	**2,215,200**
Percentage of 5 year plan goal achieved								**27%**	**27%**		**35%**

* 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 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
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										
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
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**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
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					
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**
II. Demand Response Programs										
Water Heater Storage	102	$4,364			102	103	$3,523			114
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	14	$2,500	55,633	3,974	4
Geothermal Heat Pump	20	$34,750	5,311,572	265,579	31	20	$34,750	5,311,572	265,579	31
Air Source Heat Pump	20	$12,500	2,356,308	157,087	20	20	$12,500	2,356,308	157,087	20
Heat Recovery Ventilators	15	$2,344	187,812	9,391		15	$2,344	187,812	9,391	
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	2,200	$4,818	1,051,769	144,078	132
Local CFL Rebate Program(s)	600	$2,250	286,846	39,294	36	700	$2,625	334,654	45,843	42
T8 or better Lighting Fixtures	117	$878	83,065	5,065	2	117	$878	83,065	5,065	2
ENERGY STAR LED lighting	250	$938	334,665	18,593	10	250	$938	334,665	18,593	10
Exterior Lighting										
LED Holiday Lighting	350	$875	326,340	27,195	88	400	$1,000	372,960	31,080	100
Residential Water Heating (low income included)										
High Efficiency Water Heater	102	$17,875	438,578	29,239	4	102	$17,875	438,578	29,239	4
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	252	$11,834	840,838	93,426	5	252	$11,834	840,838	93,426	5
Flow Restrictors - Shower	152	$7,138	961,704	96,170	8	152	$7,138	961,704	96,170	8
Pipe Insulation	152	$7,138	270,796	18,053	3	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	30	$1,950	73,260	6,660	2
ENERGY STAR Qualified Dishwasher	15	$469	19,414	1,765	1	15	$469	19,414	1,765	1
ENERGY STAR Qualified Refrigerator	35	$1,094	55,361	3,691	0	45	$1,406	71,179	4,745	0
ENERGY STAR Qualified Freezer	30	$938	33,467	2,231	0	35	$1,094	39,044	2,603	0
Appliance Recycling										
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits	100	$2,500	1,016,982	112,998	13	100	$2,500	1,016,982	112,998	13
Building Shell - Existing Home Only										
Weatherization Rebates	88	$36,437	2,793,704	98,794	5	115	$47,666	3,637,154	128,485	7
Residential Total	**4,437**	**$148,679**	**16,438,096**	**1,125,623**	**358**	**4,734**	**$161,421**	**17,457,386**	**1,174,833**	**385**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	10	$900	56,325	7,315	0	10	$900	56,325	7,315	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0	1	$1,738	17,360	868	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1	10	$2,500	55,445	3,696	1
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10	2	$1,250	294,206	19,614	10
Dairy Heat Reclaimer	2	$250	331,901	22,127	11	2	$250	331,901	22,127	11
Livestock Ventilation Fans	30	$900	155,844	12,987	4	30	$900	155,844	12,987	4
Scroll compressor (milk cooling)	1	$625	55,361	3,691	0	1	$625	55,361	3,691	0
Efficient Livestock Waterers	10	$625	95,371	7,948		10	$625	95,371	7,948	
Hog Farrowing - Heat Lamps (<= 175W)	10	$38	6,704	1,676		10	$38	6,704	1,676	
Hog Farrowing - Single Crate Heating Pads (<=85W)	10	$313	20,091	2,009		10	$313	20,091	2,009	
Hog Farrowing - Double Crate Heating Pads(<=170W)	10	$625	40,182	4,018		10	$625	40,182	4,018	
Ag, Commercial and Industrial Total	**96**	**$9,763**	**1,128,790**	**85,948**	**26**	**96**	**$9,763**	**1,128,790**	**85,948**	**26**
II. Demand Response Programs										
Water Heater Storage	102	$4,495			102	102	$4,630			102
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	47	$1,796			282	47	$1,850			282
Irrigation										
Time of Use Pricing	6	$1,369			40	6	$1,410			40
Commercial and Industrial Time-of-Day Price	15	$3,571				15	$3,678			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$5,841				10	$6,016			
Expert Energy Services - C&I	30	$11,681				30	$12,032			
Energy Audit Services - Residential *	50	$5,433				50	$5,596			
IV. Educational & Research Programs										
Model Housing Education	9	$6,941				9	$6,941			
Member Information and Education	5,038	$8,332				5,048	$8,332			
Peak Alert	5,038	$64				5,048	$64			
Living with Energy in Iowa	5,038	$6,169				5,048	$6,169			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,038	$12,867				5,048	$12,867			
TOTAL	**24,954**	**$227,002**	**17,566,886**	**1,211,572**	**807**	**25,291**	**$240,769**	**18,586,177**	**1,260,781**	**834**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	14	$2,500	55,633	3,974	4
Geothermal Heat Pump	20	$34,750	5,311,572	265,579	31	20	$34,750	5,311,572	265,579	31
Air Source Heat Pump	20	$12,500	2,356,308	157,087	20	20	$12,500	2,356,308	157,087	20
Heat Recovery Ventilators	15	$2,344	187,812	9,391		15	$2,344	187,812	9,391	
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	2,400	$5,256	1,147,385	157,176	144
Local CFL Rebate Program(s)	800	$3,000	382,462	52,392	48	900	$3,375	430,269	58,941	54
T8 or better Lighting Fixtures	117	$878	83,065	5,065	2	117	$878	83,065	5,065	2
ENERGY STAR LED lighting	250	$938	334,665	18,593	10	250	$938	334,665	18,593	10
Exterior Lighting										
LED Holiday Lighting	450	$1,125	419,580	34,965	113	500	$1,250	466,200	38,850	125
Residential Water Heating (low income included)										
High Efficiency Water Heater	102	$17,875	438,578	29,239	4	102	$17,875	438,578	29,239	4
Heat Pump Water Heater - (Add-On)										
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	252	$11,834	840,838	93,426	5	252	$11,834	840,838	93,426	5
Flow Restrictors - Shower	152	$7,138	961,704	96,170	8	152	$7,138	961,704	96,170	8
Pipe Insulation	152	$7,138	270,796	18,053	3	152	$7,138	270,796	18,053	3
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	35	$2,275	85,470	7,770	3	40	$2,600	97,680	8,880	3
ENERGY STAR Qualified Dishwasher	20	$625	25,885	2,353	2	25	$781	32,357	2,942	2
ENERGY STAR Qualified Refrigerator	50	$1,563	79,088	5,273	1	55	$1,719	86,996	5,800	1
ENERGY STAR Qualified Freezer	40	$1,250	44,622	2,975	0	45	$1,406	50,200	3,347	0
Appliance Recycling										
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits	100	$2,500	1,016,982	112,998	13	100	$2,500	1,016,982	112,998	13
Building Shell - Existing Home Only										
Weatherization Rebates	140	$58,382	4,471,247	157,863	8	168	$70,225	5,358,386	189,010	10
Residential Total	**5,029**	**$173,650**	**18,465,883**	**1,223,792**	**412**	**5,327**	**$187,006**	**19,527,425**	**1,274,519**	**439**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	10	$900	56,325	7,315	0	10	$900	56,325	7,315	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0	1	$1,738	17,360	868	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1	10	$2,500	55,445	3,696	1
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10	2	$1,250	294,206	19,614	10
Dairy Heat Reclaimer	2	$250	331,901	22,127	11	2	$250	331,901	22,127	11
Livestock Ventilation Fans	30	$900	155,844	12,987	4	30	$900	155,844	12,987	4
Scroll compressor (milk cooling)	1	$625	55,361	3,691	0	1	$625	55,361	3,691	0
Efficient Livestock Waterers	10	$625	95,371	7,948		10	$625	95,371	7,948	
Hog Farrowing - Heat Lamps (<= 175W)	10	$38	6,704	1,676		10	$38	6,704	1,676	
Hog Farrowing - Single Crate Heating Pads (<=85W)	10	$313	20,091	2,009		10	$313	20,091	2,009	
Hog Farrowing - Double Crate Heating Pads(<=170W)	10	$625	40,182	4,018		10	$625	40,182	4,018	
Ag, Commercial and Industrial Total	**96**	**$9,763**	**1,128,790**	**85,948**	**26**	**96**	**$9,763**	**1,128,790**	**85,948**	**26**
II. Demand Response Programs										
Water Heater Storage	102	$4,769			102	102	$4,912			102
Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	47	$1,906			282	47	$1,963			282
Irrigation										
Time of Use Pricing	6	$1,452			40	6	$1,495			40
Commercial and Industrial Time-of-Day Price	15	$3,789				15	$3,902			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$6,196				10	$6,382			
Expert Energy Services - C&I	30	$12,393				30	$12,765			
Energy Audit Services - Residential *	50	$5,764				50	$5,937			
IV. Educational & Research Programs										
Model Housing Education	9	$6,941				9	$6,941			
Member Information and Education	5,058	$8,332				5,068	$8,332			
Peak Alert	5,058	$64				5,068	$64			
Living with Energy in Iowa	5,058	$6,169				5,068	$6,169			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,058	$12,867				5,068	$12,867			
TOTAL	**25,626**	**$254,054**	**19,594,673**	**1,309,740**	**861**	**25,964**	**$268,498**	**20,656,216**	**1,360,467**	**888**
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. 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 14. 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.

Calhoun County Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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		36			
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	35	$60,703	9,295,251	1,341,172	464,763	8	$13,511	2,124,629	531,157	106,231
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	2	$1,788	235,631	78,544	15,709
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	7	$1,096	87,646	11,269	4,382	2	$264	25,042	6,260	1,252
Residential Contractor Rebates	Incentive for heat pump installs						7	$1,400			
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	37		17,689	12,116	2,423
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	1,250	$4,813	597,596	245,588	81,863	2,490	$7,664	1,190,412	815,351	163,070
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	89	$668	75,164	11,947	4,583	6	$57	8,083	2,464	493
ENERGY STAR LED lighting	Rebate for LED lighting.	28	$105	37,482	5,503	2,082		$1			
Exterior Lighting											
LED Holiday Lighting	Rebate for holiday lighting.	98	$245	91,375	24,165	7,615	2	$20	1,865	777	155
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	18	$3,376	85,231	28,410	5,682
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	12	$4,500	277,322	55,850	23,110		$2			
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	460	$3,855	1,534,864	482,703	170,540	36	$189	120,120	66,733	13,347
Flow Restrictors - Shower	Incentive for low-flow shower head.	300	$5,028	1,898,100	527,672	189,810	18	$198	113,886	56,943	11,389
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	12	$708	17,289	7,859	1,572
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	20	$625	25,885	6,589	2,353	7	$225	9,060	4,118	824
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	47	$1,469	74,342	13,709	4,956	15	$472	23,726	7,909	1,582
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	26	$813	29,004	5,206	1,934	2	$64	2,231	744	149
Appliance Recycling	Incentives for appliance recycling.	221	$15,194	1,691,304	561,137	190,442	35	$2,983	259,157	147,380	29,476
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.							$2			
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	154	$4,813	1,566,152	544,650	174,017	47	$1,924	477,982	265,545	53,109
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	119	$67,250	5,232,113	430,495	177,889	19	$5,276	699,555	123,471	24,694
Residential Total		**4,088**	**$245,394**	**31,101,869**	**5,991,847**	**2,097,236**	**2,763**	**$40,162**	**5,411,587**	**2,155,781**	**431,156**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
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					
Ag/Commercial & Industrial Heating and Cooling											
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					
Ag, Commercial and Industrial Total		**592**	**$11,712**	**947,240**	**407,100**	**148,578**	**0**	**$0**	**0**	**0**	**0**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	1,220	$114,375								
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	110	$4,433								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	110	$9,003					$567			
Energy Audit Services - Residential *	Energy Audit Services - Residential	140	$44,800					$8			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.							$576			
Member Information and Education	Member Information and Education						1,227	$9,115			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	7,335	$10,536				1,227	$3,484			
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				1,227	$3,304			
TOTAL		**21,110**	**$456,893**	**32,049,109**	**6,398,947**	**2,245,814**	**6,444**	**$57,216**	**5,411,587**	**2,155,781**	**431,156**
Percentage of 5 year plan goal achieved								**13%**	**17%**		**19%**

* 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 - (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**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	85	$124	49,960	16,308	0					
Ag/Commercial & Industrial Heating and Cooling										
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					
Ag, Commercial and Industrial Total	**91**	**$2,601**	**165,164**	**24,164**	**1**	**0**	**$0**	**0**	**0**	**0**
II. Demand Response Programs										
Water Heater Load Control										
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.

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	30,039	2,146	2
Geothermal Heat Pump	7	$12,141	1,859,050	92,953	11	7	$12,141	1,859,050	92,953	11
Air Source Heat Pump	11	$6,573	1,295,969	86,398	11	12	$7,170	1,413,785	94,252	12
Heat Recovery Ventilators	1	$157	12,521	626		1	$157	12,521	626	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	138	$90	65,975	9,038	8	124	$81	59,282	8,121	7
Local CFL Rebate Program(s)	250	$963	119,519	16,373	15	250	$963	119,519	16,373	15
T8 or better Lighting Fixtures	16	$120	13,908	848	0	18	$135	15,291	932	0
ENERGY STAR LED lighting	4	$15	5,355	297	0	6	$23	8,032	446	0
Exterior Lighting										
LED Holiday Lighting	23	$58	21,445	1,787	6	21	$53	19,580	1,632	5
Residential Water Heating (low income included)										
High Efficiency Water Heater	27	$5,000	120,563	8,038	1	32	$6,125	146,204	9,747	1
Heat Pump Water Heater - (Integrated)	2	$750	46,220	3,852	0	2	$750	46,220	3,852	0
Flow Restrictors - Faucet	80	$670	266,933	29,659	2	96	$804	320,319	35,591	2
Flow Restrictors - Shower	51	$855	322,677	32,268	3	62	$1,039	392,274	39,227	3
Pipe Insulation	51	$319	90,859	6,057	1	62	$388	110,456	7,364	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	6	$390	14,652	1,332	0	7	$455	17,094	1,554	1
ENERGY STAR Qualified Dishwasher	4	$125	5,177	471	0	4	$125	5,177	471	0
ENERGY STAR Qualified Refrigerator	7	$219	11,072	738	0	10	$313	15,818	1,055	0
ENERGY STAR Qualified Freezer	4	$125	4,462	297	0	5	$156	5,578	372	0
Appliance Recycling	45	$3,094	358,721	40,266	8	49	$3,369	378,125	42,559	9
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	34	$1,063	345,774	38,419	4
Building Shell - Existing Home Only										
Weatherization Rebates	17	$10,250	733,849	24,916	2	24	$14,000	1,064,734	36,097	2
Residential Total	**783**	**$44,098**	**5,721,292**	**394,296**	**75**	**834**	**$50,619**	**6,384,872**	**433,787**	**78**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	92	$128	53,435	17,645	0	104	$164	62,577	19,980	0
Ag/Commercial & Industrial Heating and Cooling										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	4	$2,390	104,695	6,980	0	3	$1,793	78,521	5,235	0
Agricultural										
Livestock Ventilation Fans	2	$2	10,509	876	0	4	$2	21,019	1,752	1
Ag, Commercial and Industrial Total	**98**	**$2,520**	**168,639**	**25,500**	**1**	**111**	**$1,958**	**162,118**	**26,966**	**1**
II. Demand Response Programs										
Water Heater Load Control	200	$18,750			100	270	$25,313			135
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	22	$860				22	$886			
Expert Energy Services - C&I	22	$1,747				22	$1,799			
Energy Audit Services - Residential *	22	$7,040				28	$8,960			
IV. Educational & Research Programs										
Model Housing Education										
Member Information and Education										
Living with Energy in Iowa	1,467	$2,107				1,467	$2,107			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,467	$3,328				1,647	$3,328			
TOTAL	**4,081**	**$80,451**	**5,889,931**	**419,796**	**176**	**4,401**	**$94,969**	**6,546,990**	**460,753**	**214**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	8	$1,438	32,556	2,325	3
Geothermal Heat Pump	7	$12,141	1,859,050	92,953	11	8	$13,875	2,124,629	106,231	12
Air Source Heat Pump	12	$7,170	1,413,785	94,252	12	13	$7,768	1,531,600	102,107	13
Heat Recovery Ventilators	2	$313	25,042	1,252		2	$313	25,042	1,252	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	128	$83	61,194	8,383	8	131	$85	62,628	8,579	8
Local CFL Rebate Program(s)	250	$963	119,519	16,373	15	250	$963	119,519	16,373	15
T8 or better Lighting Fixtures	20	$150	15,473	944	0	26	$195	22,245	1,356	0
ENERGY STAR LED lighting	6	$23	8,032	446	0	8	$30	10,709	595	0
Exterior Lighting										
LED Holiday Lighting	18	$45	16,783	1,399	5	15	$38	13,986	1,166	4
Residential Water Heating (low income included)										
High Efficiency Water Heater	30	$5,750	137,196	9,146	1	30	$5,625	135,115	9,008	1
Heat Pump Water Heater - (Integrated)	3	$1,125	69,331	5,778	1	4	$1,500	92,441	7,703	1
Flow Restrictors - Faucet	98	$821	326,993	36,333	2	108	$905	360,359	40,040	2
Flow Restrictors - Shower	65	$1,089	411,255	41,126	3	74	$1,240	468,198	46,820	4
Pipe Insulation	65	$406	115,801	7,720	1	74	$463	131,835	8,789	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	7	$455	17,094	1,554	1	8	$520	19,536	1,776	1
ENERGY STAR Qualified Dishwasher	4	$125	5,177	471	0	5	$156	6,471	588	0
ENERGY STAR Qualified Refrigerator	10	$313	15,818	1,055	0	12	$375	18,981	1,265	0
ENERGY STAR Qualified Freezer	6	$188	6,693	446	0	7	$219	7,809	521	0
Appliance Recycling	48	$3,300	350,975	39,678	9	42	$2,888	326,293	36,663	7
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Additional Low Income										
Energy Efficiency Kits	28	$875	284,755	31,639	4	26	$813	264,415	29,379	3
Building Shell - Existing Home Only										
Weatherization Rebates	32	$18,000	1,418,347	48,187	3	36	$19,000	1,593,205	54,319	3
Residential Total	**848**	**$54,896**	**6,713,977**	**441,680**	**78**	**887**	**$58,406**	**7,367,573**	**476,856**	**80**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	118	$200	72,713	22,697	0	147	$246	90,295	28,278	0
Ag/Commercial & Industrial Heating and Cooling										
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	3	$1,793	78,521	5,235	0	4	$2,390	104,695	6,980	0
Agricultural										
Livestock Ventilation Fans	8	$2	42,038	3,503	1	12	$2	63,057	5,255	2
Ag, Commercial and Industrial Total	**129**	**$1,995**	**193,272**	**31,435**	**2**	**163**	**$2,638**	**258,047**	**40,513**	**2**
II. Demand Response Programs										
Water Heater Load Control	340	$31,875			170	410	$38,438			205
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	22	$912				22	$940			
Expert Energy Services - C&I	22	$1,853				22	$1,908			
Energy Audit Services - Residential *	32	$10,240				40	$12,800			
IV. Educational & Research Programs										
Model Housing Education										
Member Information and Education										
Living with Energy in Iowa	1,467	$2,107				1,467	$2,107			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,467	$3,328				1,467	$3,328			
TOTAL	**4,327**	**$107,206**	**6,907,249**	**473,115**	**250**	**4,478**	**$120,565**	**7,625,620**	**517,369**	**287**
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

October 24, 2011

Re: Energy Efficiency

Attn: Iowa Utilities Board

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, the 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 14. 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, water heaters and appliances. In addition, our residential energy audit program identifies areas for improvement within the home

Chariton Valley Electric Cooperative also offers prescriptive lighting incentives for our small commercial member-consumers. For the large industrial member-consumers of Chariton Valley Electric

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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 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, 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 member 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 trough 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 typical 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-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.

Chariton Valley Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year foal to determine if any changes are needed to optimize the energy efficiency. This includes the review of appliance efficiency minimum federal standards (such as SEER etc.) and also market place changes (market transformation of compact fluorescent light bulbs (CFLs).

Thank You

Charles VanDePol

Chariton Valley Electric Cooperative

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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.	65	$10,000	411,111	88,095	29,365	72	6,893	348,112	124,326	24,865
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	5	$319	4,446	1,482	494	4	$635	3,556	1,976	395
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	40	$139,000	10,623,144	1,593,472	531,157	40	$59,768	10,623,144	2,655,786	531,157
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	20	$48,758	2,356,308	471,262	157,087	23	$5,790	2,709,754	903,251	180,650
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)	275	$27,500	275,336	187,729	62,576	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	24	$4,970	83,117	27,706	5,541
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.						1	$133	23,110	9,629	1,926
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	60	$3,543	200,200	66,733	22,244	1	$9	3,337	1,854	371
Flow Restrictors - Shower	Incentive for low-flow shower head.	60	$8,202	379,620	113,886	37,962	1	$22	6,327	3,164	633
Tank Insulation	Incentive for water heater tank insulation.	60	$4,600	102,564	30,769	10,256	1	$44	1,709	855	171
Pipe Insulation	Incentive for water pipe insulation.	60	$1,848	106,893	21,379	7,126	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	33	$5,118	59,231	26,923	5,385
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	40	$2,808	51,770	18,237	4,706	14	$1,283	18,120	8,236	1,647
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	688	$596,441	35,221,610	3,409,232	1,189,205					
Residential Total		**2,878**	**$913,466**	**50,713,586**	**6,428,959**	**2,164,512**	**2,170**	**$92,734**	**14,834,249**	**4,432,824**	**886,565**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	160	$106,116	213,822	103,630	34,543					
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	85	$125,020	1,475,634	221,345	73,782					
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.	15	$77,630	4,495,500	899,100	299,700					
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		10	$119,264	4,440,000	1,332,000	444,000					
Ag, Commercial and Industrial Total		**295**	**$471,935**	**13,134,954**	**3,033,280**	**1,011,093**	**0**	**$0**	**0**	**0**	**0**
II. Demand Response Programs											
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.	12	$36,000				2	$3,800			
Energy Audit Services - Residential *	Energy Audit Services - Residential	120	$12,000				4	$333			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	25,000	$5,000				534	$930			
Peak Alert	Peak Alert	25,000									
Living with Energy in Iowa	Living with Energy in Iowa magazine.	25,000	$216,000				4,865	$23,161			
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		$42,375				4,865	$9,112			
TOTAL		**78,320**	**$1,699,777**	**63,848,540**	**9,462,239**	**3,175,606**	**12,440**	**$130,071**	**14,834,249**	**4,432,824**	**886,565**
Percentage of 5 year plan goal achieved								**8%**	**23%**		**28%**

* 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
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**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	32	$21,223	42,764	6,909	0					
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	17	$25,004	295,127	14,756	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**
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.

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	13	$2,000	82,222	5,873	6
ENERGY STAR Qualified Room Air Conditioner	1	$64	889	99	0	1	$64	889	99	0
Geothermal Heat Pump	8	$27,800	2,124,629	106,231	12	8	$27,800	2,124,629	106,231	12
Air Source Heat Pump	4	$9,752	471,262	31,417	4	4	$9,752	471,262	31,417	4
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	500	$12,729	239,039	32,745	30	100	$2,546	47,808	6,549	6
Exterior Lighting										
High Efficiency Exterior Lighting	55	$5,500	55,067	12,515	0	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	30	$5,951	44,955	2,997	1
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	12	$709	40,040	4,449	0	12	$709	40,040	4,449	0
Flow Restrictors - Shower	12	$1,640	75,924	7,592	1	12	$1,640	75,924	7,592	1
Tank Insulation	12	$920	20,513	2,051	0	12	$920	20,513	2,051	0
Pipe Insulation	12	$370	21,379	1,425	0	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	20	$2,762	48,840	4,440	2
ENERGY STAR Qualified Dishwasher	15	$1,053	19,414	1,765	1	15	$1,053	19,414	1,765	1
Building Shell - Existing Home Only										
Weatherization Rebates	148	$128,136	7,519,473	253,679	15	148	$128,136	7,519,473	253,679	15
Residential Total	**842**	**$199,385**	**10,763,644**	**467,280**	**72**	**442**	**$189,202**	**10,572,414**	**441,084**	**48**

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	32	$21,223	42,764	6,909	0	32	$21,223	42,764	6,909	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	17	$25,004	295,127	14,756	2	17	$25,004	295,127	14,756	2
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1	1	$1,276	72,178	4,812	1
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5	1	$2,545	147,103	9,807	5
Livestock Ventilation Fans	1	$233	5,315	443	0	1	$233	5,315	443	0
Circulating Fans --- BESS Lab Ratings	3	$15,526	899,100	59,940	12	3	$15,526	899,100	59,940	12
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0	1	$1,064	55,361	3,691	0
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1	1	$3,664	222,043	13,061	1
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$23,853	888,000	88,800	24	2	$23,853	888,000	88,800	24
Ag, Commercial and Industrial Total	**59**	**$94,387**	**2,626,991**	**202,219**	**46**	**59**	**$94,387**	**2,626,991**	**202,219**	**46**

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600				3	$600			
Expert Energy Services - C&I	2	$6,000				3	$9,000			
Energy Audit Services - Residential *	24	$2,400				24	$2,400			
IV. Educational & Research Programs										
Member Information and Education	5,000	$1,000				5,000	$1,000			
Peak Alert	5,000					5,000				
Living with Energy in Iowa	5,000	$43,200				5,000	$43,200			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$8,475					$8,475			
TOTAL	**15,930**	**$355,447**	**13,390,635**	**669,499**	**118**	**15,531**	**$348,264**	**13,199,404**	**643,303**	**94**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	13	$2,000	82,222	5,873	6
ENERGY STAR Qualified Room Air Conditioner	1	$64	889	99	0	1	$64	889	99	0
Geothermal Heat Pump	8	$27,800	2,124,629	106,231	12	8	$27,800	2,124,629	106,231	12
Air Source Heat Pump	4	$9,752	471,262	31,417	4	4	$9,752	471,262	31,417	4
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	100	$2,546	47,808	6,549	6	100	$2,546	47,808	6,549	6
Exterior Lighting										
High Efficiency Exterior Lighting	55	$5,500	55,067	12,515	0	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	30	$5,951	44,955	2,997	1
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	12	$709	40,040	4,449	0	12	$709	40,040	4,449	0
Flow Restrictors - Shower	12	$1,640	75,924	7,592	1	12	$1,640	75,924	7,592	1
Tank Insulation	12	$920	20,513	2,051	0	12	$920	20,513	2,051	0
Pipe Insulation	12	$370	21,379	1,425	0	12	$370	21,379	1,425	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer										
ENERGY STAR Qualified Dishwasher										
Building Shell - Existing Home Only										
Weatherization Rebates	148	$128,136	7,519,473	253,679	15	148	$128,136	7,519,473	253,679	15
Residential Total	**407**	**$185,387**	**10,504,160**	**434,879**	**45**	**407**	**$185,387**	**10,504,160**	**434,879**	**45**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	32	$21,223	42,764	6,909	0	32	$21,223	42,764	6,909	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	17	$25,004	295,127	14,756	2	17	$25,004	295,127	14,756	2
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1	1	$1,276	72,178	4,812	1
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5	1	$2,545	147,103	9,807	5
Livestock Ventilation Fans	1	$233	5,315	443	0	1	$233	5,315	443	0
Circulating Fans --- BESS Lab Ratings	3	$15,526	899,100	59,940	12	3	$15,526	899,100	59,940	12
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0	1	$1,064	55,361	3,691	0
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1	1	$3,664	222,043	13,061	1
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$23,853	888,000	88,800	24	2	$23,853	888,000	88,800	24
Ag, Commercial and Industrial Total	**59**	**$94,387**	**2,626,991**	**202,219**	**46**	**59**	**$94,387**	**2,626,991**	**202,219**	**46**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600				3	$600			
Expert Energy Services - C&I	3	$9,000				3	$9,000			
Energy Audit Services - Residential *	24	$2,400				24	$2,400			
IV. Educational & Research Programs										
Member Information and Education	5,000	$1,000				5,000	$1,000			
Peak Alert	5,000					5,000				
Living with Energy in Iowa	5,000	$43,200				5,000	$43,200			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$8,475					$8,475			
TOTAL	**15,496**	**$344,449**	**13,131,151**	**637,098**	**91**	**15,496**	**$344,449**	**13,131,151**	**637,098**	**91**
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 14. 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 94% efficient Vanguard electric water heater, it uses about 60% less energy. In other words you can save up to $320/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.

Clarke Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs. Consumer buying decisions are largely affected by economic circumstances. We will be monitoring what effect the weak economy has on the participation in our programs. We will put forth effort to determine if a program itself needs tweaked or if participation is due to the economy.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	13	1,575	59,172	21,133	4,227
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	5	$162	4,414	1,471	490	5	$131	4,414	2,452	490
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	287	$754,084	75,678,584	10,771,673	3,783,929	21	$30,892	5,537,457	1,384,364	276,873
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	117	$166,492	13,686,297	2,620,282	912,420	13	$8,423	1,520,700	506,900	101,380
Heat Recovery Ventilators	Rebate for heat recovery ventilators.						1	$52	12,432	3,108	622
Residential Contractor Rebates	Incentive for heat pump installs	374	$74,800				31	$6,279			
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	2,354	$3,448	1,249,871	856,076	171,215
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	5,285	$13,738	2,508,655	1,069,448	343,651	864	$2,023	410,119	280,903	56,181
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	76	$2,304	90,661	90,661	20,605
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	380	$49,113	1,297,475	208,146	86,498	39	$4,894	134,104	44,701	8,940
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	32	$22,749	734,263	105,168	61,189	9	$4,543	206,511	86,046	17,209
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	54	$3,024	113,472	51,578	10,316
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	130	$4,219	167,056	44,393	15,187	19	$492	24,416	11,098	2,220
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	100	$3,290	157,049	31,410	10,470	52	$1,346	81,666	27,222	5,444
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	135	$4,381	380,291	92,725	31,691	9	$233	25,353	10,564	2,113
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	120	$3,894	132,913	25,844	8,861	10	$259	11,076	3,692	738
Appliance Recycling	Incentives for appliance recycling.	210	$16,059	2,253,772	733,370	250,419	39	$2,232	270,925	150,514	30,103
Efficient Television	Rebate for efficient television.	102	$5,294	202,346	48,107	16,862	1	$41	1,984	827	165
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.						3	$1,514	99,189	16,532	3,306
Advanced Lighting Package							2	$405	17,193	4,298	860
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	202	$9,217	2,047,697	812,096	227,522					
Weatherization Rebates	Rebates for various insulation measures.	68	$25,322	1,281,985	130,307	43,642					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	280	$89,888	4,937,094	489,339	169,443	2	$700	53,926	8,988	1,798
Residential Total		**14,459**	**$1,356,582**	**113,905,718**	**20,103,088**	**6,968,910**	**4,193**	**$76,289**	**12,687,965**	**4,996,327**	**1,001,738**
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					
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					
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	36	$16,365	1,533,065	229,960	76,653					
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					
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					
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		10	$143,579	11,696,036	2,653,125	884,375					
Ag, Commercial and Industrial Total		**3,032**	**$211,247**	**18,235,127**	**5,100,045**	**1,719,728**	**0**	**$0**	**0**	**0**	**0**
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								
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	1,500	$4,000				4,385	$63,373			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	1,810	$8,640				276	$773			
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				4,385	$10,946			
TOTAL		**20,916**	**$1,654,734**	**132,140,846**	**25,203,132**	**8,688,638**	**13,239**	**$151,381**	**12,687,965**	**4,996,327**	**1,001,738**
Percentage of 5 year plan goal achieved								**9%**	**10%**		**12%**

* 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
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**
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										
Geothermal Heat Pump	12	$5,526	511,022	25,551	1					
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**
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										
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		**551,091**								

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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	4	$519	13,886	992	1
ENERGY STAR Qualified Room Air Conditioner	1	$33	883	98	0	1	$32	883	98	0
Geothermal Heat Pump	54	$142,941	14,239,176	711,959	23	59	$155,162	15,557,618	777,881	25
Air Source Heat Pump	22	$31,438	2,573,492	171,566	7	24	$34,221	2,807,445	187,163	7
Heat Recovery Ventilators										
Residential Contractor Rebates	70	$14,000				77	$15,400			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,031	$2,695	489,389	67,040	62	979	$2,543	464,706	63,658	59
Local CFL Rebate Program(s)	1,142	$2,986	542,078	74,257	69	1,085	$2,818	515,022	70,551	65
Exterior Lighting										
High Efficiency Exterior Lighting	115	$4,539	114,321	25,982	1	115	$4,539	114,321	25,982	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	53	$6,906	180,408	12,027	2	53	$6,904	180,408	12,027	2
Heat Pump Water Heater - (Integrated)	2	$1,447	45,891	3,824	0	3	$2,171	68,837	5,736	1
Solar Water Heaters (w/ Electric auxiliary tank)	1	$458	22,284	1,857	0	1	$455	22,284	1,857	0
Flow Restrictors - Faucet	80	$4,157	265,033	29,448	2	80	$4,753	265,033	29,448	2
Flow Restrictors - Shower	80	$6,928	502,558	50,256	4	80	$7,922	502,558	50,256	4
Tank Insulation	8	$157	13,578	1,358	0	8	$156	13,578	1,358	0
Pipe Insulation	8	$157	14,151	943	0	8	$156	14,151	943	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	36	$2,654	87,286	7,935	3	37	$2,727	89,711	8,156	3
ENERGY STAR Qualified Dishwasher	25	$817	32,126	2,921	2	26	$844	33,411	3,037	2
ENERGY STAR Qualified Refrigerator	20	$658	31,410	2,094	0	20	$658	31,410	2,094	0
ENERGY STAR Qualified Dehumidifier	26	$850	73,241	6,103	1	27	$877	76,058	6,338	1
ENERGY STAR Qualified Freezer	23	$752	25,475	1,698	0	24	$779	26,583	1,772	0
Appliance Recycling	40	$3,059	429,290	47,699	8	40	$3,059	429,290	47,699	8
Efficient Television	19	$993	37,692	3,141	1	21	$1,091	41,659	3,472	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits	62	$2,837	628,501	69,833	8	50	$2,273	506,856	56,317	7
Weatherization Rebates	14	$5,176	258,255	8,790	2	14	$5,143	258,255	8,790	2
Building Shell - Existing Home Only										
Weatherization Rebates	53	$17,482	957,774	32,840	6	59	$18,956	1,044,284	35,874	6
Residential Total	**2,989**	**$254,641**	**21,578,180**	**1,334,663**	**201**	**2,895**	**$274,158**	**23,078,248**	**1,401,501**	**197**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	185	$484	99,824	27,729	11	176	$457	94,968	26,380	11
High Efficiency Interior Lighting	363	$8,525	423,678	86,757	1	396	$5,851	467,855	95,407	1
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump						12	$5,455	511,022	25,551	1
Commercial Contractor Rebate (GS & AS)						12	$623			
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,569	370,239	24,683	2	1	$1,558	370,239	24,683	2
Agricultural										
Livestock Ventilation Fans	2	$241	10,554	879	0	3	$361	15,831	1,319	0
Ventilation Thermostat Controller	1	$33	2,711	226	0	1	$32	2,711	226	0
Circulating Fans --- BESS Lab Ratings	3	$291	11,863	989	0	3	$291	11,863	989	0
Efficient Livestock Waterers	3	$294	28,408	2,367		3	$292	28,408	2,367	
Hog Farrowing - Heat Lamps (<= 175W)	18	$71	11,982	2,996		21	$82	13,979	3,495	
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$65	3,990	399		2	$65	3,990	399	
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472		1	$65	7,736	472	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$28,901	2,339,207	176,875	18	2	$28,713	2,339,207	176,875	18
Ag, Commercial and Industrial Total	**581**	**$40,539**	**3,310,192**	**324,371**	**33**	**633**	**$43,846**	**3,867,808**	**358,162**	**34**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$1,200				2	$1,200			
Expert Energy Services - C&I	1	$700				1	$700			
Energy Audit Services - Residential *	20	$2,500				20	$2,500			
IV. Educational & Research Programs										
Member Information and Education	300	$800				300	$800			
Living with Energy in Iowa	360	$1,680				370	$1,776			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,453					$10,453			
TOTAL	**4,253**	**$312,513**	**24,888,372**	**1,659,034**	**234**	**4,221**	**$335,434**	**26,946,056**	**1,759,663**	**231**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	4	$513	13,886	992	1
ENERGY STAR Qualified Room Air Conditioner	1	$32	883	98	0	1	$32	883	98	0
Geothermal Heat Pump	62	$162,000	16,348,684	817,434	27	65	$168,750	17,139,749	856,987	28
Air Source Heat Pump	25	$35,484	2,924,422	194,961	8	26	$36,731	3,041,399	202,760	8
Heat Recovery Ventilators										
Residential Contractor Rebates	81	$16,200				85	$17,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	901	$2,325	427,682	58,587	54	829	$2,126	393,505	53,905	50
Local CFL Rebate Program(s)	998	$2,575	473,725	64,894	60	918	$2,354	435,751	59,692	55
Exterior Lighting										
High Efficiency Exterior Lighting	104	$4,026	103,386	23,497	1	107	$4,115	106,368	24,175	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	59	$7,691	201,040	13,403	2	162	$20,705	555,210	37,014	5
Heat Pump Water Heater - (Integrated)	3	$2,171	68,837	5,736	1	22	$15,513	504,806	42,067	5
Solar Water Heaters (w/ Electric auxiliary tank)	1	$452	22,284	1,857	0	1	$449	22,284	1,857	0
Flow Restrictors - Faucet	128	$4,955	424,053	47,117	3	132	$5,077	437,304	48,589	3
Flow Restrictors - Shower	128	$8,258	804,092	80,409	6	132	$8,462	829,220	82,922	7
Tank Insulation	8	$155	13,578	1,358	0	8	$154	13,578	1,358	0
Pipe Insulation	8	$155	14,151	943	0	8	$154	14,151	943	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	38	$2,800	92,136	8,376	3	39	$2,872	94,560	8,596	3
ENERGY STAR Qualified Dishwasher	27	$871	34,696	3,154	2	28	$897	35,981	3,271	3
ENERGY STAR Qualified Refrigerator	20	$658	31,410	2,094	0	20	$658	31,410	2,094	0
ENERGY STAR Qualified Dehumidifier	28	$903	78,875	6,573	1	29	$929	81,692	6,808	1
ENERGY STAR Qualified Freezer	25	$806	27,690	1,846	0	26	$833	28,798	1,920	0
Appliance Recycling	45	$3,441	482,951	53,661	9	45	$3,441	482,951	53,661	9
Efficient Television	22	$1,135	43,643	3,637	1	23	$1,179	45,627	3,802	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *										
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits	25	$1,129	253,428	28,159	3	13	$583	131,783	14,643	2
Weatherization Rebates	14	$5,110	258,255	8,790	2	14	$5,077	258,255	8,790	2
Building Shell - Existing Home Only										
Weatherization Rebates	61	$19,187	1,053,575	36,184	7	61	$19,064	1,053,575	36,184	7
Residential Total	**2,816**	**$283,036**	**24,197,362**	**1,463,761**	**190**	**2,798**	**$317,668**	**25,752,728**	**1,553,129**	**189**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	162	$418	87,413	24,281	10	149	$382	80,399	22,333	9
High Efficiency Interior Lighting	416	$6,163	491,782	100,329	1	416	$6,142	491,782	100,329	1
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump						12	$5,385	511,022	25,551	1
Commercial Contractor Rebate (GS & AS)						12	$615			
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,548	370,239	24,683	2	1	$1,538	370,239	24,683	2
Agricultural										
Livestock Ventilation Fans	3	$361	15,831	1,319	0	4	$480	21,107	1,759	1
Ventilation Thermostat Controller	1	$32	2,711	226	0	1	$32	2,711	226	0
Circulating Fans --- BESS Lab Ratings	3	$291	11,863	989	0	12	$564	47,452	3,954	1
Efficient Livestock Waterers	3	$290	28,408	2,367		3	$288	28,408	2,367	
Hog Farrowing - Heat Lamps (<= 175W)	22	$85	14,645	3,661		23	$88	15,310	3,828	
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$65	3,990	399		2	$64	3,990	399	
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472		1	$64	7,736	472	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$28,528	2,339,207	176,875	18	2	$28,345	2,339,207	176,875	18
Ag, Commercial and Industrial Total	**616**	**$37,846**	**3,373,825**	**335,601**	**32**	**638**	**$43,988**	**3,919,363**	**362,775**	**33**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	2	$1,200				2	$1,200			
Expert Energy Services - C&I	1	$700				1	$700			
Energy Audit Services - Residential *	20	$2,500				20	$2,500			
IV. Educational & Research Programs										
Member Information and Education	300	$800				300	$800			
Living with Energy in Iowa	380	$1,824				350	$1,680			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,453					$10,453			
TOTAL	**4,135**	**$338,359**	**27,571,186**	**1,799,361**	**222**	**4,109**	**$378,990**	**29,672,091**	**1,915,904**	**222**
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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Your Energy Cooperative

November 8, 2011

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Assistant Secretary-Treasurer
Colo

Allan Armbrecht
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Robert Collins
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Kurt Lehman
Slater

Don McKibben
Marshalltown

Randy Sorenson
Elkhart

Interim General Manager:
Jim Kidd
Marshalltown

Ms. Joan Conrad
Executive Secretary
Iowa Utilities Board
350 Maple Street
Des Moines, IA 50319-0069

IN RE: Energy Efficiency Filing for 2010

Dear Ms. Conrad:

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 14. The cost-effectiveness tests included the societal test, utility cost test, rate-payer impact test and participant test. The cost-effectiveness

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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 robust 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 5:00 p.m. to 7:00 p.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.

Consumers Energy Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

Sincerely,

David Stineman
Member Services Manager

DS/slp

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	33	5,314	173,534	61,977	12,395
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.						1	$38	883	490	98
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	27	$34,252	7,119,588	1,779,897	355,979
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	14	$8,776	1,637,677	545,892	109,178
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	25	$3,450	310,792	46,619	15,540	1	$139	12,432	3,108	622
Residential Contractor Rebates	Incentive for heat pump installs	201	$42,813				34	$7,251			
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	2,515	$3,765	1,335,650	914,829	182,966
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	3,400	$20,400	1,613,893	968,856	221,081	1,250	$3,567	593,343	406,399	81,280
ENERGY STAR CFL Fixtures	Rebate for compact florescent light fixtures.	5	$50	10,911	2,182	546					
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	96	$2,688	95,325	17,008	5,812					
ENERGY STAR LED lighting	Rebate for LED lighting.	37		49,178	6,498	2,732					
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	43	$645	128,807	18,972	7,156					
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	130	$5,500	155,079	155,079	35,245
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	110	$55,109	487,762	162,587	32,517
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	85	$43,945	1,950,386	382,429	162,532	2	$1,034	45,891	19,121	3,824
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	165	$2,145	546,631	204,296	60,737	76	$1,236	251,781	139,879	27,976
Flow Restrictors - Shower	Incentive for low-flow shower head.	190	$3,230	1,193,574	427,174	119,357	77	$1,354	483,712	241,856	48,371
Tank Insulation	Incentive for water heater tank insulation.	6	$144	10,183	5,092	1,018	2	$30	3,394	1,697	339
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	85	$5,807	178,614	81,188	16,238
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	113	$4,633	145,210	36,682	13,201	41	$1,677	52,687	23,949	4,790
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	275	$11,000	431,885	80,619	28,792	77	$3,042	120,928	40,309	8,062
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	35	$1,330	98,594	29,343	8,216	11	$417	30,987	12,911	2,582
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	52	$1,976	57,596	11,815	3,840	16	$606	17,722	5,907	1,181
Appliance Recycling	Incentives for appliance recycling.	135	$6,050	1,338,453	510,039	148,785	22	$1,422	176,338	97,966	19,593
Efficient Television	Rebate for efficient television.	36	$1,908	71,416	21,491	5,951	1	$53	1,984	827	165
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	4	$1,816	132,252	22,042	4,408
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	4	$934	65,696	10,949	2,190
Residential Total		**9,827**	**$839,040**	**78,393,535**	**14,629,217**	**4,808,827**	**4,552**	**$143,429**	**13,111,542**	**4,740,062**	**952,242**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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					
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	1,840	$19,546	2,759,544	2,155,894	431,179
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					
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					
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**	**1,840**	**$19,546**	**2,759,544**	**2,155,894**	**431,179**

II. Demand Response Programs											
Residential Time-of-Day Price	Residential time of day price.	250	$27,000				175	$49,767			
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	$3,310			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	4,800	$100,000				4,950	$29,515			
Peak Alert	Peak Alert	4,800									
Living with Energy in Iowa	Living with Energy in Iowa magazine.	20,050	$141,000				93	$270			
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				4,950	$13,784			
TOTAL		**68,424**	**$1,573,823**	**89,715,507**	**18,388,601**	**5,863,347**	**16,580**	**$264,115**	**15,871,086**	**6,895,956**	**1,383,421**
Percentage of 5 year plan goal achieved								**17%**	**18%**		**24%**

* 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 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**

	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**

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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	22	$3,348	115,088	8,221	8
ENERGY STAR Qualified Room Air Conditioner										
Geothermal Heat Pump	35	$43,960	9,229,096	461,455	15	40	$50,240	10,547,538	527,377	17
Air Source Heat Pump	15	$8,160	1,754,653	116,977	5	15	$8,160	1,754,653	116,977	5
Heat Recovery Ventilators	5	$690	62,158	3,108		5	$690	62,158	3,108	
Residential Contractor Rebates	49	$10,437				35	$7,455			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	400	$960	189,870	26,010	24	500	$1,200	237,337	32,512	30
Local CFL Rebate Program(s)	100	$600	47,467	6,502	6	500	$3,000	237,337	32,512	30
ENERGY STAR CFL Fixtures	5	$50	10,911	546	0					
T8 or better Lighting Fixtures	15	$420	15,508	946	0	20	$560	20,243	1,234	0
ENERGY STAR LED lighting	7		9,304	517	0	10		13,291	738	0
ENERGY STAR Ceiling Fan	11	$165	32,951	1,831	0	10	$150	29,955	1,664	0
Exterior Lighting										
High Efficiency Exterior Lighting	120	$5,160	119,291	27,112	1	120	$5,160	119,291	27,112	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	90	$49,500	371,463	24,764	3	110	$60,500	419,569	27,971	4
Heat Pump Water Heater - (Integrated)						25	$12,925	573,643	47,804	5
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	$4,568	145,477	13,225	5	60	$4,280	145,477	13,225	5
ENERGY STAR Qualified Dishwasher	26	$1,066	33,411	3,037	2	25	$1,025	32,126	2,921	2
ENERGY STAR Qualified Refrigerator	65	$2,600	102,082	6,805	1	60	$2,400	94,230	6,282	1
ENERGY STAR Qualified Dehumidifier	5	$190	14,085	1,174	0	5	$190	14,085	1,174	0
ENERGY STAR Qualified Freezer	10	$380	11,076	738	0	10	$380	11,076	738	0
Appliance Recycling	16	$700	150,585	16,799	3	23	$950	217,085	24,121	4
Efficient Television	5	$265	9,919	827	0	5	$265	9,919	827	0
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	6	$3,102	198,378	6,613	1	5	$2,585	165,315	5,511	1
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits						10	$90	101,371	11,263	1
Weatherization Rebates	3	$1,151	60,704	2,023	1	4	$1,968	112,348	3,745	1
Building Shell - Existing Home Only										
Weatherization Rebates	14	$4,138	228,366	7,612	2	10	$2,570	128,813	4,294	1
Residential Total	**1,085**	**$141,722**	**12,913,510**	**736,960**	**78**	**1,689**	**$170,991**	**15,449,798**	**931,218**	**119**

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	5	$442	2,698	749	0
High Efficiency Interior Lighting	355	$28,550	1,082,883	156,906	2	260	$15,320	320,061	59,844	1
Exterior Lighting										
High Efficiency Exterior Lighting	20	$600	22,141	4,519	0	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	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		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					$28,400			
Ag, Commercial and Industrial Total	**384**	**$62,631**	**2,967,309**	**286,077**	**13**	**289**	**$49,401**	**1,465,088**	**139,949**	**8**

II. Demand Response Programs										
Residential Time-of-Day Price	40	$5,400				40	$5,400			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Expert Energy Services - C&I										
Energy Audit Services - Residential *	6	$2,500				6	$2,500			
IV. Educational & Research Programs										
Member Information and Education										
Peak Alert										
Living with Energy in Iowa	5,000	$35,000				5,000	$35,000			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,500	$15,000				5,500	$15,000			
TOTAL	**12,015**	**$262,253**	**15,880,819**	**1,023,036**	**91**	**12,524**	**$278,292**	**16,914,885**	**1,071,167**	**127**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	20	$3,020	102,528	7,323	7
ENERGY STAR Qualified Room Air Conditioner										
Geothermal Heat Pump	43	$54,008	11,338,603	566,930	18	45	$56,520	11,865,980	593,299	19
Air Source Heat Pump	17	$9,248	1,988,607	132,574	5	20	$10,880	2,339,538	155,969	6
Heat Recovery Ventilators	5	$690	62,158	3,108		5	$690	62,158	3,108	
Residential Contractor Rebates	35	$7,455				35	$7,455			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	300	$720	142,402	19,507	18	200	$480	94,935	13,005	12
Local CFL Rebate Program(s)	200	$1,200	94,935	13,005	12	100	$600	47,467	6,502	6
ENERGY STAR CFL Fixtures										
T8 or better Lighting Fixtures	20	$560	20,243	1,234	0	20	$560	20,243	1,234	0
ENERGY STAR LED lighting	10		13,291	738	0	10		13,291	738	0
ENERGY STAR Ceiling Fan	10	$150	29,955	1,664	0	10	$150	29,955	1,664	0
Exterior Lighting										
High Efficiency Exterior Lighting	120	$5,160	119,291	27,112	1	120	$5,160	119,291	27,112	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	110	$60,500	419,569	27,971	4	110	$60,500	419,569	27,971	4
Heat Pump Water Heater - (Integrated)	25	$12,925	573,643	47,804	5	25	$12,925	573,643	47,804	5
Flow Restrictors - Faucet	30	$390	99,387	11,043	1	30	$390	99,387	11,043	1
Flow Restrictors - Shower	30	$510	188,459	18,846	2	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	60	$4,280	145,477	13,225	5
ENERGY STAR Qualified Dishwasher	25	$1,025	32,126	2,921	2	25	$1,025	32,126	2,921	2
ENERGY STAR Qualified Refrigerator	60	$2,400	94,230	6,282	1	60	$2,400	94,230	6,282	1
ENERGY STAR Qualified Dehumidifier	5	$190	14,085	1,174	0	5	$190	14,085	1,174	0
ENERGY STAR Qualified Freezer	10	$380	11,076	738	0	10	$380	11,076	738	0
Appliance Recycling	23	$950	217,085	24,121	4	23	$950	217,085	24,121	4
Efficient Television	5	$265	9,919	827	0	5	$265	9,919	827	0
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	5	$2,585	165,315	5,511	1	5	$2,585	165,315	5,511	1
Advanced Lighting Package										
Additional Low Income										
Energy Efficiency Kits	10	$90	101,371	11,263	1	10	$90	101,371	11,263	1
Weatherization Rebates	4	$1,968	112,348	3,745	1	4	$1,968	112,348	3,745	1
Building Shell - Existing Home Only										
Weatherization Rebates	10	$2,570	128,813	4,294	1	10	$2,570	128,813	4,294	1
Residential Total	**1,189**	**$172,774**	**16,214,505**	**952,216**	**90**	**997**	**$176,543**	**17,008,293**	**989,719**	**80**

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	5	$442	2,698	749	0
High Efficiency Interior Lighting	210	$9,620	250,937	49,043	1	260	$15,320	320,061	59,844	1
Exterior Lighting										
High Efficiency Exterior Lighting	20	$600	22,141	4,519	0	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	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		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					$28,400			
Ag, Commercial and Industrial Total	**239**	**$43,701**	**1,395,964**	**129,148**	**8**	**289**	**$49,401**	**1,465,088**	**139,949**	**8**

II. Demand Response Programs										
Residential Time-of-Day Price	30	$5,400				20	$5,400			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
Expert Energy Services - C&I										
Energy Audit Services - Residential *	6	$2,500				6	$2,500			
IV. Educational & Research Programs										
Member Information and Education										
Peak Alert										
Living with Energy in Iowa	5,000	$35,000				5,000	$35,000			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,500	$15,000				5,500	$15,000			
TOTAL	**11,964**	**$274,375**	**17,610,469**	**1,081,364**	**97**	**11,812**	**$283,844**	**18,473,380**	**1,129,668**	**88**
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 14. 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.

East-Central Iowa REC’s five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency

programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

East-Central Iowa Rural Electric Cooperative	Measure Description	5 Year Plan (2010-2014) Estimated Achievable Potential Goals					5 Year Plan (2010-2014) Plan to Date Results (Through 2010)				
		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	27	5,897	138,664	49,523	9,905
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	25	$812	22,070	7,357	2,452	3	$338	2,648	1,471	294
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	57	$92,289	15,030,241	3,757,560	751,512
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	50	$34,094	5,848,845	1,949,615	389,923
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	102	$16,544	1,268,032	180,881	63,402	7	$2,112	87,022	21,755	4,351
Residential Contractor Rebates	Incentive for heat pump installs	564	$112,800				102	$22,050			
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	4,073	$5,967	2,162,995	1,481,503	296,301
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	25,450	$66,157	12,080,465	5,149,698	1,654,858	13,574	$35,135	6,443,231	4,413,172	882,634
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	147	$2,380	117,665	20,327	7,175					
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	92	$1,790	275,587	43,435	15,310					
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	42	$2,057	78,575	78,575	17,858
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	204	$30,295	726,262	242,087	48,417
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	12	$4,785	229,457	95,607	22,946	1	$304	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	14	$14,613	321,240	133,850	26,770
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.	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					
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	117	$7,286	245,856	111,753	22,351
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	370	$12,010	475,468	127,337	43,224	61	$1,770	78,388	35,631	7,126
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	491	$15,938	771,112	151,919	51,407	140	$4,065	219,869	73,290	14,658
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	205	$6,654	577,478	142,022	48,123	44	$1,277	123,947	51,644	10,329
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	185	$6,005	204,908	40,243	13,661	25	$725	27,690	9,230	1,846
Appliance Recycling	Incentives for appliance recycling.	750	$57,353	8,049,187	2,635,364	894,354	166	$10,578	1,320,186	733,437	146,687
Efficient Television	Rebate for efficient television.	162	$8,408	321,372	76,210	26,781	7	$289	13,886	5,786	1,157
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	6	$6,273	198,378	33,063	6,613
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	5	$3,831	413,122	68,854	13,771
Residential Total		**40,865**	**$1,920,964**	**174,413,813**	**34,145,193**	**11,698,553**	**18,813**	**$281,952**	**33,687,654**	**13,327,773**	**2,667,697**

East-Central Iowa Rural Electric Cooperative	Measure Description	5 Year Plan (2010-2014) Estimated Achievable Potential Goals					5 Year Plan (2010-2014) Plan to Date Results (Through 2010)				
		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.	1,709	$4,443	922,156	796,942	256,154					
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	2,480	$41,123	3,356,900	2,622,578	524,516
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					
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	7	$1,371	10,299	3,433	687
Geothermal Heat Pump	Rebate for geothermal heat pump.	30	$13,638	1,277,554	191,633	63,878	6	$2,089	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	3	$746	69,978	23,326	4,665
Heat Recovery Ventilators	Rebate for heat recovery ventilators.							$1,337			
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	40	$2,078								
Ag/Commercial & Industrial Appliances											
Commercial ENERGY STAR Refrigerators and Freezers	Rebates for ENERGY STAR refrigerators & freezers.							$1,337			
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.							$1,337			
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	4	$3,106	584,223	97,371	38,948					
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	5	$5,195	823,847	164,769	54,923					
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	266	$31,588	1,403,643	328,924	116,970					
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	27	$876	73,201	17,171	6,100					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	170	$8,078	672,237	157,185	56,020					
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	10	$3,247	549,672	109,934	36,645					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	68	$4,412	643,909	153,086	53,659					
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					
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	387	$1,506	257,614	180,729	64,403					
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	42	$1,363	83,782	24,137	8,378					
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											
Ag, Commercial and Industrial Total		**6,924**	**$169,948**	**18,531,320**	**5,958,332**	**2,076,374**	**2,496**	**$49,339**	**3,671,395**	**2,707,891**	**541,578**
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								
Energy Audit Services - Residential *	Energy Audit Services - Residential	30	$3,000								
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	10	$55,000				2	$13,596			
Domestic Water Heater Enhancement	Domestic Water Heater Enhancement	5	$15,100								
Member Information and Education	Member Information and Education	5	$8,350				6,483	$30,682			
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				6,483	$20,529			
TOTAL		**47,879**	**$2,272,722**	**192,945,133**	**40,103,524**	**13,774,927**	**34,277**	**$396,098**	**37,359,049**	**16,035,664**	**3,209,276**
Percentage of 5 year plan goal achieved								**17%**	**19%**		**23%**

* 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				
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	$2,039	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
T8 or better Lighting Fixtures	25	$399	19,340	1,179	0					
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					
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**

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
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 Appliances										
Commercial ENERGY STAR Refrigerators and Freezers							$1,337			
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA							$1,337			
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						
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 - 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**

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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	13	$2,013	59,172	4,227	4
ENERGY STAR Qualified Room Air Conditioner	5	$163	4,414	490	0	5	$162	4,414	490	0
Geothermal Heat Pump	55	$113,235	14,502,865	725,143	24	60	$122,727	15,821,307	791,065	26
Air Source Heat Pump	52	$46,800	6,082,798	405,520	16	55	$49,500	6,433,729	428,915	17
Heat Recovery Ventilators	19	$3,105	236,202	11,810		21	$3,409	261,065	13,053	
Residential Contractor Rebates	107	$21,400				115	$23,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,417	$3,705	672,614	92,139	85	1,346	$3,496	638,912	87,522	81
Local CFL Rebate Program(s)	5,499	$14,376	2,610,235	357,566	330	5,224	$13,569	2,479,699	339,685	313
T8 or better Lighting Fixtures	27	$437	21,364	1,303	0	30	$487	24,075	1,468	0
ENERGY STAR Ceiling Fan	17	$333	50,924	2,829	1	19	$370	56,915	3,162	1
Exterior Lighting										
High Efficiency Exterior Lighting	45	$1,765	46,149	10,432	0	46	$1,792	47,143	10,658	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	246	$36,993	891,577	59,438	8	257	$37,727	931,467	62,098	8
Heat Pump Water Heater - (Add-On)	1	$392	19,121	1,912	0	1	$390	19,121	1,912	0
Heat Pump Water Heater - (Integrated)	14	$9,150	321,240	26,770	3	18	$11,688	413,023	34,419	4
Solar Water Heaters (w/ Electric auxiliary tank)	1	$458	22,284	1,857	0	1	$455	22,284	1,857	0
Flow Restrictors - Faucet	179	$7,020	593,011	65,890	4	206	$8,026	682,460	75,829	4
Flow Restrictors - Shower	179	$11,699	1,124,473	112,447	9	206	$13,377	1,294,086	129,409	10
Tank Insulation	14	$275	23,761	2,376	0	14	$273	23,761	2,376	0
Pipe Insulation	14	$275	24,764	1,651	0	14	$273	24,764	1,651	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	122	$8,647	295,804	26,891	10	125	$8,818	303,078	27,553	10
ENERGY STAR Qualified Dishwasher	72	$2,353	92,523	8,411	6	74	$2,403	95,094	8,645	7
ENERGY STAR Qualified Refrigerator	96	$3,137	150,767	10,051	1	98	$3,182	153,908	10,261	1
ENERGY STAR Qualified Dehumidifier	40	$1,307	112,679	9,390	1	41	$1,331	115,496	9,625	1
ENERGY STAR Qualified Freezer	36	$1,176	39,874	2,658	0	37	$1,201	40,982	2,732	0
Appliance Recycling	146	$11,165	1,566,908	174,101	28	150	$11,471	1,609,837	178,871	29
Efficient Television	30	$1,569	59,513	4,959	1	33	$1,714	65,465	5,455	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	23	$15,033	760,449	25,348	4	25	$16,234	826,575	27,553	5
Advanced Lighting Package	4	$1,046	34,386	1,719	1	5	$1,299	42,982	2,149	1
Additional Low Income										
Energy Efficiency Kits	38	$1,739	385,210	42,801	5	30	$1,364	304,113	33,790	4
Weatherization Rebates	8	$4,000	230,383	7,861	1	8	$3,974	230,383	7,861	1
Building Shell - Existing Home Only										
Weatherization Rebates	107	$41,430	2,453,699	83,770	11	118	$45,305	2,702,481	92,213	12
Residential Total	**8,626**	**$366,208**	**33,489,164**	**2,281,764**	**554**	**8,395**	**$391,029**	**35,727,792**	**2,396,503**	**542**

East-Central Iowa Rural Electric Cooperative	2011 Estimated Achievable Potential					2012 Estimated Achievable Potential				
	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Projected Participants	Projected Cost	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	351	$912	189,395	52,610	21
High Efficiency Interior Lighting	760	$13,248	913,406	175,963	3	855	$15,085	1,039,573	198,607	3
Exterior Lighting										
High Efficiency Exterior Lighting	8	$314	8,856	1,807	0	8	$312	8,856	1,807	0
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$229	10,299	687	0	7	$227	10,299	687	0
Geothermal Heat Pump						10	$4,545	425,851	21,293	1
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$523	46,652	3,110	0	2	$519	46,652	3,110	0
Heat Recovery Ventilators										
Commercial Contractor Rebate (GS & AS)	2	$105				12	$623			
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA										
Agricultural										
Dairy Pre-coolers Incentive	1	$784	146,056	9,737	5	1	$779	146,056	9,737	5
Dairy Heat Reclaimer	1	$1,046	164,769	10,985	5	1	$1,039	164,769	10,985	5
Livestock Ventilation Fans	49	$5,864	258,566	21,547	6	56	$6,658	295,504	24,625	7
Ventilation Thermostat Controller	5	$163	13,556	1,130	0	6	$195	16,267	1,356	0
Circulating Fans --- BESS Lab Ratings	31	$1,484	122,584	10,215	3	36	$1,713	142,356	11,863	4
Scroll compressor (milk cooling)	2	$654	109,934	7,329	1	2	$649	109,934	7,329	1
Efficient Livestock Waterers	13	$850	123,100	10,258		14	$909	132,569	11,047	
Variable Speed Drive Motor - Dairy Vacuum Pump	5	$2,614	1,102,315	64,842	5	6	$3,117	1,322,778	77,810	6
Hog Farrowing - Heat Lamps (<= 175W)	71	$278	47,262	11,816		82	$319	54,585	13,646	
Hog Farrowing - Single Crate Heating Pads (<=85W)	8	$261	15,958	1,596		9	$292	17,953	1,795	
Hog Farrowing - Heat Lamp or Pad Controller	2	$131	15,472	943		2	$130	15,472	943	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**1,336**	**$29,512**	**3,297,895**	**387,274**	**51**	**1,460**	**$38,024**	**4,138,872**	**449,251**	**54**

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$450				4	$600			
Expert Energy Services - C&I	3	$450				4	$600			
Energy Audit Services - Residential *	5	$500				6	$600			
IV. Educational & Research Programs										
Model Housing Education	2	$11,000				2	$11,000			
Domestic Water Heater Enhancement	1	$3,010				1	$3,020			
Member Information and Education	1	$1,660				1	$1,670			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$18,872					$18,872			
TOTAL	**9,977**	**$431,662**	**36,787,058**	**2,669,037**	**606**	**9,873**	**$465,415**	**39,866,664**	**2,845,754**	**596**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	13	$1,987	59,172	4,227	4
ENERGY STAR Qualified Room Air Conditioner	5	$161	4,414	490	0	5	$160	4,414	490	0
Geothermal Heat Pump	63	$128,032	16,612,372	830,619	27	66	$133,269	17,403,437	870,172	28
Air Source Heat Pump	58	$52,200	6,784,660	452,311	18	60	$54,000	7,018,614	467,908	19
Heat Recovery Ventilators	22	$3,548	273,497	13,675		23	$3,686	285,929	14,296	
Residential Contractor Rebates	121	$24,200				126	$25,200			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,238	$3,195	587,647	80,500	74	1,139	$2,921	540,654	74,062	68
Local CFL Rebate Program(s)	4,806	$12,403	2,281,286	312,505	288	4,422	$11,338	2,099,011	287,536	265
T8 or better Lighting Fixtures	32	$524	26,099	1,591	0	33	$533	26,786	1,633	0
ENERGY STAR Ceiling Fan	20	$387	59,910	3,328	1	21	$404	62,906	3,495	1
Exterior Lighting										
High Efficiency Exterior Lighting	47	$1,819	48,137	10,884	0	48	$1,846	49,131	11,110	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	238	$38,452	868,201	57,880	8	239	$39,167	873,706	58,247	8
Heat Pump Water Heater - (Add-On)	1	$387	19,121	1,912	0	1	$385	19,121	1,912	0
Heat Pump Water Heater - (Integrated)	24	$15,484	550,697	45,891	5	32	$20,513	734,263	61,189	7
Solar Water Heaters (w/ Electric auxiliary tank)	1	$452	22,284	1,857	0	1	$449	22,284	1,857	0
Flow Restrictors - Faucet	216	$8,361	715,589	79,510	4	222	$8,538	735,467	81,719	4
Flow Restrictors - Shower	216	$13,935	1,356,906	135,691	11	222	$14,231	1,394,597	139,460	11
Tank Insulation	14	$271	23,761	2,376	0	14	$269	23,761	2,376	0
Pipe Insulation	14	$271	24,764	1,651	0	14	$269	24,764	1,651	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	128	$8,987	310,351	28,214	10	130	$9,154	315,201	28,655	10
ENERGY STAR Qualified Dishwasher	76	$2,452	97,664	8,879	7	78	$2,500	100,234	9,112	7
ENERGY STAR Qualified Refrigerator	100	$3,226	157,049	10,470	1	103	$3,301	161,761	10,784	1
ENERGY STAR Qualified Dehumidifier	42	$1,355	118,313	9,859	1	43	$1,378	121,130	10,094	1
ENERGY STAR Qualified Freezer	38	$1,226	42,089	2,806	0	39	$1,250	43,197	2,880	0
Appliance Recycling	154	$11,776	1,652,766	183,641	29	158	$12,082	1,695,695	188,411	30
Efficient Television	35	$1,806	69,432	5,786	1	37	$1,897	73,400	6,117	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	26	$16,774	859,638	28,655	5	27	$17,308	892,701	29,757	5
Advanced Lighting Package	6	$1,548	51,578	2,579	1	6	$1,538	51,578	2,579	1
Additional Low Income										
Energy Efficiency Kits	15	$677	152,057	16,895	2	8	$359	81,097	9,011	1
Weatherization Rebates	8	$3,948	230,383	7,861	1	8	$3,923	230,383	7,861	1
Building Shell - Existing Home Only										
Weatherization Rebates	125	$47,945	2,892,081	98,683	13	125	$47,638	2,892,081	98,683	13
Residential Total	**7,902**	**$407,804**	**36,951,921**	**2,441,225**	**514**	**7,463**	**$421,494**	**38,036,475**	**2,487,282**	**490**

East-Central Iowa Rural Electric Cooperative	2013 Estimated Achievable Potential					2014 Estimated Achievable Potential				
	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Projected Participants	Projected Cost	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	297	$762	160,258	44,516	18
High Efficiency Interior Lighting	898	$15,783	1,092,703	208,748	3	898	$15,681	1,092,703	208,748	3
Exterior Lighting										
High Efficiency Exterior Lighting	8	$310	8,856	1,807	0	8	$308	8,856	1,807	0
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$226	10,299	687	0	7	$224	10,299	687	0
Geothermal Heat Pump						10	$4,487	425,851	21,293	1
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	2	$516	46,652	3,110	0	2	$513	46,652	3,110	0
Heat Recovery Ventilators										
Commercial Contractor Rebate (GS & AS)	2	$103				12	$615			
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA										
Agricultural										
Dairy Pre-coolers Incentive	1	$774	146,056	9,737	5	1	$769	146,056	9,737	5
Dairy Heat Reclaimer	1	$1,032	164,769	10,985	5	1	$1,026	164,769	10,985	5
Livestock Ventilation Fans	59	$6,969	311,334	25,945	8	61	$7,159	321,888	26,824	8
Ventilation Thermostat Controller	6	$194	16,267	1,356	0	6	$192	16,267	1,356	0
Circulating Fans --- BESS Lab Ratings	38	$1,796	150,265	12,522	4	39	$1,831	154,219	12,852	4
Scroll compressor (milk cooling)	2	$645	109,934	7,329	1	2	$641	109,934	7,329	1
Efficient Livestock Waterers	15	$968	142,039	11,837		15	$962	142,039	11,837	
Variable Speed Drive Motor - Dairy Vacuum Pump	6	$3,097	1,322,778	77,810	6	6	$3,077	1,322,778	77,810	6
Hog Farrowing - Heat Lamps (<= 175W)	86	$333	57,247	14,312		89	$342	59,244	14,811	
Hog Farrowing - Single Crate Heating Pads (<=85W)	9	$290	17,953	1,795		9	$288	17,953	1,795	
Hog Farrowing - Heat Lamp or Pad Controller	2	$129	15,472	943		2	$128	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**	**1,465**	**$39,007**	**4,215,240**	**456,439**	**52**

II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	5	$750				6	$900			
Expert Energy Services - C&I	5	$750				6	$900			
Energy Audit Services - Residential *	7	$700				8	$800			
IV. Educational & Research Programs										
Model Housing Education	2	$11,000				2	$11,000			
Domestic Water Heater Enhancement	1	$3,030				1	$3,040			
Member Information and Education	1	$1,680				1	$1,690			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$18,872					$18,872			
TOTAL	**9,388**	**$478,584**	**40,738,833**	**2,878,561**	**567**	**8,952**	**$497,703**	**42,251,715**	**2,943,721**	**542**
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 14. 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.

Eastern Iowa Light and Power Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

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 compact fluorescent lights. They are more aware of "Energy Star" and what it does for them in conserving energy.

While we have had good participation in the energy conservation plan it has shown the effects of the downturn of the economy. We did not reach the participation level anticipated in some programs.

There seems to be some need of additional education for those businesses that are part of a "chain" store to make them aware of the programs and what is required to qualify for a rebate.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	173	34,038	847,707	302,752	60,550
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	37	$1,664	32,663	18,146	3,629
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	107	$191,787	28,214,664	7,053,666	1,410,733
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	53	$30,098	6,199,775	2,066,592	413,318
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	47	$7,625	584,289	84,535	29,214	17	$1,806	211,339	52,835	10,567
Residential Contractor Rebates	Incentive for heat pump installs	602	$120,400				136	$32,029			
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	9,975	$14,611	5,296,741	3,627,905	725,581
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	21,654	$56,290	10,278,601	4,381,701	1,408,028	1,465	$9,232	695,398	476,300	95,260
ENERGY STAR CFL Fixtures	Rebate for compact florescent light fixtures.	39	$405	85,104	11,893	4,255					
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	305	$3,459	171,310	29,660	10,446					
ENERGY STAR LED lighting	Rebate for LED lighting.	44	$1,712	58,482	9,156	3,249					
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	39	$759	116,825	18,139	6,490					
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	315	$11,723	375,768	375,768	85,402
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	318	$57,493	1,120,323	373,441	74,688
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	79	$51,126	1,812,712	372,868	151,059	7	$3,669	160,620	66,925	13,385
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	367	$26,079	771,191	350,541	70,108
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	840	$27,267	1,079,441	289,720	98,131	171	$7,745	219,743	99,883	19,977
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	1,430	$46,418	2,245,804	441,832	149,720	429	$19,411	673,741	224,580	44,916
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	535	$17,365	1,507,078	369,727	125,590	84	$3,765	236,625	98,594	19,719
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	470	$15,257	520,577	102,639	34,705	62	$2,788	68,672	22,891	4,578
Appliance Recycling	Incentives for appliance recycling.	1,923	$147,052	20,638,116	6,766,087	2,293,124	273	$19,473	1,976,252	1,097,918	219,584
Efficient Television	Rebate for efficient television.	420	$21,800	833,188	198,378	69,432	65	$3,928	128,946	53,727	10,745
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	4	$1,433	112,348	18,725	3,745
Residential Total		**45,649**	**$3,298,431**	**267,520,594**	**49,977,216**	**17,189,001**	**14,058**	**$472,773**	**47,342,515**	**16,381,188**	**3,286,486**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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					
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	877	$4,146	506,848	395,975	79,195
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	125	$3,393	183,619	61,206	12,241
Geothermal Heat Pump	Rebate for geothermal heat pump.	50	$22,729	2,129,257	319,389	106,463	77	$22,949	3,287,573	821,893	164,379
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	5	$815	116,630	38,877	7,775
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	117	$27,330	4,507,942	647,294	225,397	5	$982	192,647	48,162	9,632
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	82	$4,258								
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					
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	7	$515	36,105	15,044	3,009
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	6	$235	23,250	9,687	1,937
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	1	$116	9,469	3,946	789
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					
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**	**1,104**	**$33,218**	**4,358,851**	**1,395,919**	**279,184**
II. Demand Response Programs											
Residential Time-of-Day Price	Residential time of day price.	5	$1,000				141				
Irrigation											
Time of Use Pricing	Irrigation time of use prices.	10	$2,000				21				
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price						3				
Industrial Interruptible Price	Industrial Interruptible Price	30	$8,091,185				6	$1,413,944			
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	$6,660			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	1,133,400	$447,866				18,748	$12,286			
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				18,748	$55,728			
TOTAL		**1,383,029**	**$13,196,479**	**352,520,132**	**72,905,662**	**25,078,425**	**71,630**	**$2,002,739**	**51,701,366**	**17,777,107**	**3,565,670**
Percentage of 5 year plan goal achieved								**15%**	**15%**		**14%**

* 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 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 - (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**

3,033,420

	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 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**

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		**3,239,985**								

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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	262	$61,623	1,367,292	97,664	94
ENERGY STAR Qualified Room Air Conditioner	30	$980	26,483	2,943	3	31	$1,006	27,366	3,041	3
Geothermal Heat Pump	108	$232,941	28,478,352	1,423,918	46	119	$255,000	31,378,925	1,568,946	51
Air Source Heat Pump	38	$34,118	4,445,122	296,341	12	42	$37,532	4,913,030	327,535	13
Heat Recovery Ventilators	9	$1,471	111,885	5,594		10	$1,623	124,317	6,216	
Residential Contractor Rebates	113	$22,600				124	$24,800			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,876	$4,905	890,489	121,985	113	1,782	$4,629	845,870	115,873	107
Local CFL Rebate Program(s)	4,679	$12,233	2,221,002	304,247	281	4,445	$11,545	2,109,928	289,031	267
ENERGY STAR CFL Fixtures	7	$73	15,275	764	0	8	$83	17,457	873	0
T8 or better Lighting Fixtures	56	$638	31,305	1,909	0	62	$704	34,829	2,124	0
ENERGY STAR LED lighting	8	$314	10,633	591	0	9	$351	11,962	665	0
ENERGY STAR Ceiling Fan	7	$137	20,969	1,165	0	8	$156	23,964	1,331	0
Exterior Lighting										
High Efficiency Exterior Lighting	198	$6,039	181,729	36,510	1	203	$6,156	186,935	37,562	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	206	$81,307	724,873	48,325	6	211	$82,727	742,066	49,471	6
Heat Pump Water Heater - (Integrated)	11	$7,190	252,403	21,034	2	14	$9,091	321,240	26,770	3
Solar Water Heaters (w/ Electric auxiliary tank)	1	$458	22,284	1,857	0	1	$455	22,284	1,857	0
Flow Restrictors - Faucet	144	$5,647	477,059	53,007	3	166	$6,468	549,943	61,105	3
Flow Restrictors - Shower	144	$9,412	904,604	90,460	7	166	$10,779	1,042,807	104,281	8
Tank Insulation	11	$216	18,670	1,867	0	11	$214	18,670	1,867	0
Pipe Insulation	11	$216	19,458	1,297	0	11	$214	19,458	1,297	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	216	$15,281	523,718	47,611	17	221	$15,545	535,841	48,713	18
ENERGY STAR Qualified Dishwasher	164	$5,359	210,748	19,159	15	168	$5,455	215,888	19,626	15
ENERGY STAR Qualified Refrigerator	279	$9,118	438,167	29,211	3	286	$9,286	449,161	29,944	3
ENERGY STAR Qualified Dehumidifier	104	$3,399	292,965	24,414	2	107	$3,474	301,416	25,118	2
ENERGY STAR Qualified Freezer	92	$3,007	101,900	6,793	1	94	$3,052	104,115	6,941	1
Appliance Recycling	375	$28,676	4,024,594	447,177	71	384	$29,365	4,121,184	457,909	73
Efficient Television	78	$4,078	154,735	12,895	3	86	$4,468	170,605	14,217	3
Additional Low Income										
Energy Efficiency Kits	76	$3,477	770,421	85,602	10	61	$2,773	618,364	68,707	8
Weatherization Rebates	17	$6,431	318,959	10,814	3	19	$6,779	328,249	11,123	3
Building Shell - Existing Home Only										
Weatherization Rebates	213	$72,497	4,018,383	137,153	22	234	$79,190	4,429,985	151,174	25
Residential Total	**9,525**	**$632,347**	**51,032,663**	**3,329,318**	**714**	**9,345**	**$674,543**	**55,033,151**	**3,530,981**	**709**

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	355	$922	191,554	53,209	21
High Efficiency Interior Lighting	1,964	$34,287	2,358,303	454,624	6	2,210	$39,037	2,683,594	513,242	7
Exterior Lighting										
High Efficiency Exterior Lighting	164	$4,915	253,479	51,730	2	168	$5,000	259,533	52,966	2
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	26	$850	38,254	2,550	2	27	$877	39,725	2,648	2
Geothermal Heat Pump	10	$4,575	425,851	21,293	1	10	$4,545	425,851	21,293	1
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	6	$1,569	139,956	9,330	1	7	$1,818	163,282	10,885	1
Heat Recovery Ventilators	22	$5,176	847,647	42,382	13	24	$5,610	924,706	46,235	14
Commercial Contractor Rebate (GS & AS)	16	$837				17	$883			
Ag/Commercial & Industrial Insulation										
Building Envelope	3	$4,484	270,227	11,344	1	3	$4,455	270,227	11,344	1
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$490	31,840	2,123	0	3	$487	31,840	2,123	0
Variable Speed Drive Motor Incentive	9	$14,118	3,332,155	222,144	19	10	$15,584	3,702,395	246,826	22
Agricultural										
Dairy Pre-coolers Incentive	1	$784	146,056	9,737	5	1	$779	146,056	9,737	5
Livestock Ventilation Fans	57	$6,821	300,781	25,065	7	65	$7,728	342,996	28,583	8
Ventilation Thermostat Controller	6	$196	16,267	1,356	0	7	$227	18,978	1,582	0
Circulating Fans --- BESS Lab Ratings	36	$1,724	142,356	11,863	4	41	$1,950	162,128	13,511	4
Scroll compressor (milk cooling)	1	$327	54,967	3,664	0	1	$325	54,967	3,664	0
Efficient Livestock Waterers	15	$980	142,039	11,837		17	$1,104	160,977	13,415	
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$1,046	440,926	25,937	2	2	$1,039	440,926	25,937	2
Hog Farrowing - Heat Lamps (<= 175W)	76	$298	50,591	12,648		87	$339	57,913	14,478	
Hog Farrowing - Single Crate Heating Pads (<=85W)	10	$327	19,948	1,995		12	$390	23,938	2,394	
Hog Farrowing - Heat Lamp or Pad Controller	2	$131	15,472	943		2	$130	15,472	943	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	5	$88,060	7,127,404	538,926	54	5	$87,488	7,127,404	538,926	54
Ag, Commercial and Industrial Total	**2,808**	**$172,972**	**16,356,324**	**1,517,548**	**140**	**3,074**	**$180,717**	**17,244,460**	**1,613,942**	**145**
II. Demand Response Programs										
Residential Time-of-Day Price	1	$200				1	$200			
Irrigation										
Time of Use Pricing	2	$400			13	2	$400			13
Commercial and Industrial Time-of-Day Price										
Industrial Interruptible Price	6	$1,630,994			19,270	6	$1,585,182			18,272
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I	1					1				
Energy Audit Services - Residential *	75	$39,375				75	$39,375			
IV. Educational & Research Programs										
Member Information and Education	225,480	$83,332				226,680	$89,164			
Peak Alert	18,790	$675				18,890	$700			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	18,790	$54,000				18,890	$54,000			
TOTAL	**275,478**	**$2,614,294**	**67,388,987**	**4,846,866**	**20,137**	**276,964**	**$2,624,282**	**72,277,611**	**5,144,923**	**19,139**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	270	$62,692	1,409,105	100,650	97
ENERGY STAR Qualified Room Air Conditioner	32	$1,032	28,249	3,139	3	33	$1,058	29,132	3,237	3
Geothermal Heat Pump	125	$266,129	32,961,056	1,648,053	54	131	$277,115	34,543,186	1,727,159	56
Air Source Heat Pump	44	$39,097	5,146,983	343,132	14	46	$40,641	5,380,937	358,729	14
Heat Recovery Ventilators	10	$1,613	124,317	6,216		10	$1,603	124,317	6,216	
Residential Contractor Rebates	130	$26,000				137	$27,400			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,639	$4,230	777,991	106,574	98	1,508	$3,867	715,809	98,056	90
Local CFL Rebate Program(s)	4,089	$10,552	1,940,944	265,883	245	3,762	$9,646	1,785,725	244,620	226
ENERGY STAR CFL Fixtures	9	$93	19,639	982	0	9	$92	19,639	982	0
T8 or better Lighting Fixtures	67	$756	37,667	2,297	1	69	$777	39,041	2,381	1
ENERGY STAR LED lighting	10	$387	13,291	738	0	10	$385	13,291	738	0
ENERGY STAR Ceiling Fan	9	$174	26,960	1,498	0	9	$173	26,960	1,498	0
Exterior Lighting										
High Efficiency Exterior Lighting	208	$6,271	192,141	38,613	1	213	$6,385	197,346	39,665	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	216	$84,129	759,259	50,617	7	221	$85,513	776,451	51,763	7
Heat Pump Water Heater - (Integrated)	19	$12,258	435,969	36,331	4	26	$16,667	596,589	49,716	5
Solar Water Heaters (w/ Electric auxiliary tank)	1	$452	22,284	1,857	0	1	$449	22,284	1,857	0
Flow Restrictors - Faucet	174	$6,735	576,447	64,050	3	179	$6,885	593,011	65,890	4
Flow Restrictors - Shower	174	$11,226	1,093,063	109,306	9	179	$11,474	1,124,473	112,447	9
Tank Insulation	11	$213	18,670	1,867	0	11	$212	18,670	1,867	0
Pipe Insulation	11	$213	19,458	1,297	0	11	$212	19,458	1,297	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	226	$15,806	547,964	49,815	18	232	$16,109	562,512	51,137	19
ENERGY STAR Qualified Dishwasher	172	$5,548	221,028	20,093	15	176	$5,641	226,169	20,561	16
ENERGY STAR Qualified Refrigerator	293	$9,452	460,154	30,677	3	300	$9,615	471,148	31,410	3
ENERGY STAR Qualified Dehumidifier	110	$3,548	309,866	25,822	2	113	$3,622	318,317	26,526	2
ENERGY STAR Qualified Freezer	96	$3,097	106,331	7,089	1	98	$3,141	108,546	7,236	1
Appliance Recycling	394	$30,129	4,228,506	469,834	75	404	$30,894	4,335,829	481,759	77
Efficient Television	90	$4,645	178,540	14,878	4	95	$4,872	188,459	15,705	4
Additional Low Income										
Energy Efficiency Kits	31	$1,400	314,251	34,917	4	16	$718	162,194	18,022	2
Weatherization Rebates	19	$6,735	328,249	11,123	3	19	$6,692	328,249	11,123	3
Building Shell - Existing Home Only										
Weatherization Rebates	246	$82,511	4,642,695	158,415	26	246	$81,982	4,642,695	158,415	26
Residential Total	**8,922**	**$696,820**	**56,925,047**	**3,604,619**	**687**	**8,534**	**$716,530**	**58,779,544**	**3,690,663**	**667**

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	301	$772	162,416	45,116	18
High Efficiency Interior Lighting	2,320	$40,701	2,816,265	538,703	8	2,320	$40,440	2,816,265	538,703	8
Exterior Lighting										
High Efficiency Exterior Lighting	172	$5,084	265,586	54,201	2	176	$5,167	271,640	55,437	2
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	28	$903	41,196	2,746	2	28	$897	41,196	2,746	2
Geothermal Heat Pump	10	$4,516	425,851	21,293	1	10	$4,487	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	7	$1,795	163,282	10,885	1
Heat Recovery Ventilators	25	$5,806	963,235	48,162	15	26	$6,000	1,001,765	50,088	15
Commercial Contractor Rebate (GS & AS)	17	$877				17	$872			
Ag/Commercial & Industrial Insulation										
Building Envelope	3	$4,426	270,227	11,344	1	3	$4,397	270,227	11,344	1
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$484	31,840	2,123	0	3	$481	31,840	2,123	0
Variable Speed Drive Motor Incentive	11	$17,032	4,072,634	271,509	24	12	$18,462	4,442,874	296,192	26
Agricultural										
Dairy Pre-coolers Incentive	1	$774	146,056	9,737	5	1	$769	146,056	9,737	5
Livestock Ventilation Fans	68	$8,032	358,826	29,902	9	70	$8,216	369,380	30,782	9
Ventilation Thermostat Controller	7	$226	18,978	1,582	0	7	$224	18,978	1,582	0
Circulating Fans --- BESS Lab Ratings	43	$2,032	170,036	14,170	4	44	$2,066	173,991	14,499	4
Scroll compressor (milk cooling)	1	$323	54,967	3,664	0	1	$321	54,967	3,664	0
Efficient Livestock Waterers	18	$1,161	170,446	14,204		19	$1,218	179,916	14,993	
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$1,032	440,926	25,937	2	2	$1,026	440,926	25,937	2
Hog Farrowing - Heat Lamps (<= 175W)	91	$352	60,576	15,144		94	$362	62,573	15,643	
Hog Farrowing - Single Crate Heating Pads (<=85W)	13	$419	25,932	2,593		13	$417	25,932	2,593	
Hog Farrowing - Heat Lamp or Pad Controller	2	$129	15,472	943		2	$128	15,472	943	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	5	$86,924	7,127,404	538,926	54	5	$86,366	7,127,404	538,926	54
Ag, Commercial and Industrial Total	**3,174**	**$183,885**	**17,816,182**	**1,666,781**	**147**	**3,161**	**$184,882**	**18,242,950**	**1,693,226**	**148**

II. Demand Response Programs										
Residential Time-of-Day Price	1	$200				1	$200			
Irrigation										
Time of Use Pricing	2	$400			13	2	$400			13
Commercial and Industrial Time-of-Day Price										
Industrial Interruptible Price	6	$1,624,811			18,272	6	$1,665,431			18,272
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I	1					1				
Energy Audit Services - Residential *	75	$39,375				75	$39,375			
IV. Educational & Research Programs										
Member Information and Education	227,880	$95,406				229,080	$102,084			
Peak Alert	18,990	$725				19,090	$750			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	18,990	$54,000				19,090	$54,000			
TOTAL	**278,041**	**$2,695,622**	**74,741,230**	**5,271,400**	**19,119**	**279,040**	**$2,763,653**	**77,022,494**	**5,383,889**	**19,100**
Percentage of 5 year plan goal achieved										

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

Farmers Electric
Cooperative, Inc.
Incorporated 1938

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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. 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 14. 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.

Farmers Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

In the spring of 2010 Farmers Electric Cooperative acquired the new Winterset Middle School in our service territory. Farmers Electric worked with the school and provided a reliable underground electrical feed to supply their electrical needs and a backup electrical supply switch also connecting to the City of Winterset in case Farmers Electric Cooperative would have an outage situation occur. The school invested in Geo-Thermal heating, Energy efficient lighting, Heat recovery ventilation and adjustable speed drive pumps.

In the late fall Farmers Electric Cooperative looked at the energy efficiency totals thus far, and it looked like the cooperative was going to fall short of the goals that were set. Some of the other Iowa REC's had a CFL giveaway program for their members and it was a big hit with their memberships. Farmers Electric Cooperative ordered a bulk purchase of 7 different CFL bulbs amounting to an 8,000 bulb order. Information about the CFL giveaway was published in the cooperative monthly newsletter. Some of the cooperative board members also contacted the membership, and delivered over 2000 CFL bulbs to the members in their regions. The CFL giveaway was a big hit. The CFL giveaway also helped with the cooperatives energy efficiency goal quite well.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	18	2,283	82,146	29,338	5,868
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	10	$325	8,828	2,943	981	4	$126	3,531	1,962	392
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	22	$29,715	5,801,146	1,450,286	290,057
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	7	$4,396	818,838	272,946	54,589
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	5	$812	62,158	9,324	3,108	1	$132	12,432	3,108	622
Residential Contractor Rebates	Incentive for heat pump installs	248	$49,600				31	$8,769			
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	1,721	$2,531	913,996	626,025	125,205
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	250	$649	118,669	48,768	16,256	3,833	$9,553	1,819,427	1,246,183	249,237
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	64	$753	37,992	6,615	2,317					
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	33	$2,347	39,366	39,366	8,947
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	33	$6,579	123,804	41,268	8,254
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	28	$18,120	642,480	131,938	53,540	2	$1,031	45,891	19,121	3,824
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	94	$159	311,414	173,008	34,602
Flow Restrictors - Shower	Incentive for low-flow shower head.	404	$26,202	2,537,916	710,491	253,792	94	$301	590,505	295,253	59,051
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	46	$2,669	96,662	43,937	8,787
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	85	$2,760	109,229	29,790	9,930	26	$816	33,411	15,187	3,037
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	185	$6,005	290,541	57,061	19,369	61	$1,915	95,800	31,933	6,387
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	85	$2,760	239,442	59,861	19,954	3	$94	8,451	3,521	704
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	75	$2,435	83,071	16,614	5,538	7	$220	7,753	2,584	517
Appliance Recycling	Incentives for appliance recycling.	330	$25,235	3,541,642	1,156,698	393,516	32	$2,046	257,366	142,981	28,596
Efficient Television	Rebate for efficient television.	70	$3,633	138,865	33,063	11,572	3	$141	5,951	2,480	496
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	1	$260	33,063	5,511	1,102
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	7	$2,894	264,339	44,056	8,811
Residential Total		**5,555**	**$750,001**	**73,209,587**	**12,762,733**	**4,438,920**	**6,079**	**$78,976**	**11,365,293**	**4,490,055**	**899,085**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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					
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	175	$4,593	239,165	186,848	37,370
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	143	$17,847	6,089,676	1,522,419	304,484
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								
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	1	$926	246,826	82,275	16,455
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**	**382**	**$35,159**	**8,774,968**	**2,370,525**	**474,105**
II. Demand Response Programs											
Industrial Interruptible Price	Industrial Interruptible Price	5	$100,538				1	$32,739			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural						3	$300			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education		$31,890				3,696	$44,077			
Peak Alert	Peak Alert										
Living with Energy in Iowa	Living with Energy in Iowa magazine.	50	$190				271	$389			
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				3,696	$12,137			
TOTAL		**8,378**	**$1,146,538**	**94,215,549**	**18,413,148**	**6,147,820**	**14,128**	**$203,777**	**20,140,262**	**6,860,579**	**1,373,190**
Percentage of 5 year plan goal achieved								**18%**	**21%**		**22%**

* 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
T8 or better Lighting Fixtures	11	$129	6,362	388	0					
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 - (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**

	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**

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			
IV. Educational & Research Programs										
Member Information and Education		$6,378				3,696	$44,077			
Peak Alert										
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	5	$649	17,358	1,240	1
ENERGY STAR Qualified Room Air Conditioner	2	$65	1,766	196	0	2	$65	1,766	196	0
Geothermal Heat Pump	32	$65,882	8,438,030	421,902	14	35	$71,591	9,229,096	461,455	15
Air Source Heat Pump	16	$12,353	1,871,630	124,775	5	17	$13,182	1,988,607	132,574	5
Heat Recovery Ventilators	1	$163	12,432	622		1	$162	12,432	622	
Residential Contractor Rebates	46	$9,200				51	$10,200			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	415	$1,085	196,990	26,985	25	394	$1,023	187,022	25,619	24
Local CFL Rebate Program(s)	50	$131	23,734	3,251	3	50	$130	23,734	3,251	3
T8 or better Lighting Fixtures	12	$141	7,049	430	0	13	$153	7,736	472	0
Exterior Lighting										
High Efficiency Exterior Lighting	51	$2,000	50,699	11,522	1	52	$2,026	51,693	11,748	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	71	$9,869	262,735	17,516	2	73	$10,065	269,612	17,974	2
Heat Pump Water Heater - (Integrated)	4	$2,614	91,783	7,649	1	5	$3,247	114,729	9,561	1
Solar Water Heaters (w/ Electric auxiliary tank)	4	$1,830	89,138	7,428	1	4	$1,818	89,138	7,428	1
Flow Restrictors - Faucet	75	$2,941	248,468	27,608	2	86	$3,351	284,910	31,657	2
Flow Restrictors - Shower	75	$4,902	471,148	47,115	4	86	$5,584	540,249	54,025	4
Tank Insulation	3	$59	5,092	509	0	3	$58	5,092	509	0
Pipe Insulation	3	$59	5,307	354	0	3	$58	5,307	354	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$2,013	65,465	5,951	2	27	$2,000	65,465	5,951	2
ENERGY STAR Qualified Dishwasher	17	$556	21,846	1,986	2	17	$552	21,846	1,986	2
ENERGY STAR Qualified Refrigerator	36	$1,176	56,538	3,769	0	37	$1,201	58,108	3,874	0
ENERGY STAR Qualified Dehumidifier	17	$556	47,888	3,991	0	17	$552	47,888	3,991	0
ENERGY STAR Qualified Freezer	15	$490	16,614	1,108	0	15	$487	16,614	1,108	0
Appliance Recycling	64	$4,894	686,864	76,318	12	66	$5,047	708,328	78,703	13
Efficient Television	13	$680	25,789	2,149	1	14	$727	27,773	2,314	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,307	66,126	2,204	0	2	$1,299	66,126	2,204	0
Additional Low Income										
Energy Efficiency Kits	16	$732	162,194	18,022	2	13	$591	131,783	14,643	2
Weatherization Rebates	2	$392	9,291	310	0	2	$390	9,291	310	0
Building Shell - Existing Home Only										
Weatherization Rebates	44	$15,855	916,082	31,451	5	48	$16,984	993,301	34,175	5
Residential Total	**1,118**	**$142,600**	**13,868,054**	**846,359**	**83**	**1,138**	**$153,193**	**14,975,002**	**907,943**	**84**

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	105	$273	56,657	15,738	6
High Efficiency Interior Lighting	331	$5,777	396,727	76,519	1	373	$6,610	452,032	86,549	1
Exterior Lighting										
High Efficiency Exterior Lighting	1	$39	1,107	226	0	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	$1,569	370,239	24,683	2	1	$1,558	370,239	24,683	2
Agricultural										
Livestock Ventilation Fans	7	$838	36,938	3,078	1	8	$951	42,215	3,518	1
Ventilation Thermostat Controller	1	$33	2,711	226	0	1	$32	2,711	226	0
Circulating Fans --- BESS Lab Ratings	8	$383	31,635	2,636	1	9	$428	35,589	2,966	1
Efficient Livestock Waterers	3	$196	28,408	2,367		3	$195	28,408	2,367	
Hog Farrowing - Heat Lamps (<= 175W)	8	$31	5,325	1,331		9	$35	5,991	1,498	
Hog Farrowing - Single Crate Heating Pads (<=85W)	1	$33	1,995	199		1	$32	1,995	199	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$22,963	1,858,577	140,533	14	2	$22,814	1,858,577	140,533	14
Ag, Commercial and Industrial Total	**474**	**$32,152**	**2,793,556**	**268,436**	**26**	**513**	**$32,968**	**2,855,521**	**278,503**	**26**

II. Demand Response Programs										
Industrial Interruptible Price	1	$19,667			302	1	$20,159			302
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
IV. Educational & Research Programs										
Member Information and Education		$6,378					$6,378			
Peak Alert										
Living with Energy in Iowa	10	$36				10	$38			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$11,007					$11,007			
TOTAL	**1,603**	**$211,839**	**16,661,611**	**1,114,795**	**410**	**1,662**	**$223,743**	**17,830,523**	**1,186,446**	**412**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	5	$641	17,358	1,240	1
ENERGY STAR Qualified Room Air Conditioner	2	$65	1,766	196	0	2	$64	1,766	196	0
Geothermal Heat Pump	37	$75,194	9,756,473	487,824	16	39	$78,750	10,283,849	514,192	17
Air Source Heat Pump	18	$14,000	2,105,584	140,372	6	19	$14,808	2,222,561	148,171	6
Heat Recovery Ventilators	1	$161	12,432	622		1	$160	12,432	622	
Residential Contractor Rebates	54	$10,800				57	$11,400			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	362	$934	171,832	23,539	22	333	$854	158,067	21,653	20
Local CFL Rebate Program(s)	50	$129	23,734	3,251	3	50	$128	23,734	3,251	3
T8 or better Lighting Fixtures	14	$165	8,423	514	0	14	$164	8,423	514	0
Exterior Lighting										
High Efficiency Exterior Lighting	53	$2,052	52,687	11,974	1	54	$2,077	53,681	12,200	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	75	$10,258	276,489	18,433	2	77	$10,449	283,366	18,891	2
Heat Pump Water Heater - (Integrated)	7	$4,516	160,620	13,385	1	9	$5,769	206,511	17,209	2
Solar Water Heaters (w/ Electric auxiliary tank)	4	$1,806	89,138	7,428	1	4	$1,795	89,138	7,428	1
Flow Restrictors - Faucet	90	$3,484	298,162	33,129	2	93	$3,577	308,101	34,233	2
Flow Restrictors - Shower	90	$5,806	565,377	56,538	5	93	$5,962	584,223	58,422	5
Tank Insulation	3	$58	5,092	509	0	3	$58	5,092	509	0
Pipe Insulation	3	$58	5,307	354	0	3	$58	5,307	354	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$1,987	65,465	5,951	2	27	$1,974	65,465	5,951	2
ENERGY STAR Qualified Dishwasher	17	$548	21,846	1,986	2	17	$545	21,846	1,986	2
ENERGY STAR Qualified Refrigerator	38	$1,226	59,679	3,979	0	39	$1,250	61,249	4,083	0
ENERGY STAR Qualified Dehumidifier	17	$548	47,888	3,991	0	17	$545	47,888	3,991	0
ENERGY STAR Qualified Freezer	15	$484	16,614	1,108	0	15	$481	16,614	1,108	0
Appliance Recycling	68	$5,200	729,793	81,088	13	70	$5,353	751,257	83,473	13
Efficient Television	15	$774	29,757	2,480	1	16	$821	31,740	2,645	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,290	66,126	2,204	0	2	$1,282	66,126	2,204	0
Additional Low Income										
Energy Efficiency Kits	7	$316	70,960	7,884	1	4	$179	40,548	4,505	1
Weatherization Rebates	2	$387	9,291	310	0	2	$385	9,291	310	0
Building Shell - Existing Home Only										
Weatherization Rebates	50	$17,227	1,002,591	34,485	5	50	$17,117	1,002,591	34,485	5
Residential Total	**1,126**	**$160,120**	**15,670,482**	**944,772**	**84**	**1,115**	**$166,644**	**16,378,225**	**983,827**	**84**

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	89	$228	48,023	13,340	5
High Efficiency Interior Lighting	392	$6,879	473,926	90,851	1	392	$6,835	473,926	90,851	1
Exterior Lighting										
High Efficiency Exterior Lighting	1	$39	1,107	226	0	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	$1,548	370,239	24,683	2	1	$1,538	370,239	24,683	2
Agricultural										
Livestock Ventilation Fans	8	$945	42,215	3,518	1	8	$939	42,215	3,518	1
Ventilation Thermostat Controller	1	$32	2,711	226	0	1	$32	2,711	226	0
Circulating Fans --- BESS Lab Ratings	9	$425	35,589	2,966	1	9	$423	35,589	2,966	1
Efficient Livestock Waterers	3	$194	28,408	2,367		3	$192	28,408	2,367	
Hog Farrowing - Heat Lamps (<= 175W)	9	$35	5,991	1,498		9	$35	5,991	1,498	
Hog Farrowing - Single Crate Heating Pads (<=85W)	1	$32	1,995	199		1	$32	1,995	199	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$22,667	1,858,577	140,533	14	2	$22,521	1,858,577	140,533	14
Ag, Commercial and Industrial Total	**524**	**$33,046**	**2,873,098**	**281,605**	**25**	**540**	**$38,814**	**3,379,803**	**305,957**	**26**

II. Demand Response Programs										
Industrial Interruptible Price	1	$20,663			302	1	$21,179			302
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural										
IV. Educational & Research Programs										
Member Information and Education		$6,378					$6,378			
Peak Alert										
Living with Energy in Iowa	10	$40				10	$42			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$11,007					$11,007			
TOTAL	**1,661**	**$231,254**	**18,543,580**	**1,226,377**	**412**	**1,666**	**$244,064**	**19,758,028**	**1,289,784**	**413**
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. 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 14. 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.

Franklin Rural Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
Franklin 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	$6,814	152,587	30,922	10,899	4	933	20,870	7,454	1,491
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	54	$95,564	14,341,244	2,164,466	717,062	12	$18,280	3,186,943	796,736	159,347
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	18	$11,490	2,120,677	706,892	141,378
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	9	$1,408	112,687	15,651	5,634		$6			
Residential Contractor Rebates	Incentive for heat pump installs						30	$3,529			
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	476		227,565	155,866	31,173
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	1,917	$7,190	916,474	365,041	125,544	2,963	$9,786	1,416,542	970,234	194,047
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	282	$2,116	248,430	40,809	15,148	12	$90	16,165	4,928	986
ENERGY STAR LED lighting	Rebate for LED lighting.	144	$541	192,767	25,583	10,709	3	$12	4,016	1,116	223
CFL Recycling	Recycling of compact florescent light bulbs.	3	$285				35	$90			
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	76	$309	70,862	29,526	5,905
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	33	$13,605	135,098	45,033	9,007
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		$7			
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	480	$4,024	1,601,597	532,383	177,955	66	$1,038	220,220	122,344	24,469
Flow Restrictors - Shower	Incentive for low-flow shower head.	260	$4,360	1,645,020	493,506	164,502	33	$1,044	208,791	104,396	20,879
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	32	$2,136	78,144	35,520	7,104
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	39	$1,218	50,476	12,590	4,589	14	$472	18,120	8,236	1,647
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	64	$2,001	101,232	19,192	6,749	16	$546	25,308	8,436	1,687
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	64	$2,001	71,395	13,535	4,760	8	$263	8,924	2,975	595
Appliance Recycling	Incentives for appliance recycling.	235	$16,157	1,977,421	640,814	220,735	33	$2,479	223,909	127,117	25,423
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		$3			
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	250	$7,815	2,542,455	847,485	282,495	33	$836	335,604	186,447	37,289
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	105	$40,832	3,360,747	354,978	118,326	6	$2,537	266,184	45,122	9,024
Residential Total		**6,450**	**$308,556**	**39,405,179**	**8,121,375**	**2,745,966**	**3,905**	**$71,332**	**8,622,459**	**3,377,636**	**675,527**
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)	28	$280	36,202	14,949	5,657	400	$800	198,557	381,840	76,368
Agricultural											
Efficient Livestock Waterers	Rebate for efficient livestock waterer.						2	$150	19,074	7,948	1,590
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**	**402**	**$950**	**217,631**	**389,788**	**77,958**
II. Demand Response Programs											
III. Energy Audit & Technical Support Programs											
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.							$3,415			
Energy Audit Services - Residential *	Energy Audit Services - Residential	90	$18,000				9	$3,032			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.							$537			
Member Information and Education	Member Information and Education	7,385	$165,000				1,472	$40,743			
Peak Alert	Peak Alert	7,385									
Living with Energy in Iowa	Living with Energy in Iowa magazine.	7,385	$10,608				1,472	$4,767			
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				1,472	$5,271			
TOTAL		**36,128**	**$548,443**	**40,765,833**	**8,930,996**	**3,016,513**	**8,732**	**$130,047**	**8,840,091**	**3,767,423**	**753,485**
Percentage of 5 year plan goal achieved								**24%**	**22%**		**25%**

* 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
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**
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
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**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
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.

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	$1,438	31,966	2,283	2
Geothermal Heat Pump	10	$17,375	2,655,786	132,789	15	10	$17,375	2,655,786	132,789	15
Air Source Heat Pump	16	$10,000	1,885,046	125,670	16	16	$10,000	1,885,046	125,670	16
Heat Recovery Ventilators	2	$313	25,042	1,252		2	$313	25,042	1,252	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	350	$767	167,327	22,922	21	350	$767	167,327	22,922	21
Local CFL Rebate Program(s)	290	$1,088	138,642	18,992	17	345	$1,294	164,937	22,594	21
T8 or better Lighting Fixtures	47	$353	41,141	2,509	1	56	$420	48,241	2,942	1
ENERGY STAR LED lighting	20	$75	26,773	1,487	1	29	$109	38,821	2,157	1
CFL Recycling						1	$95			
Exterior Lighting										
High Efficiency Exterior Lighting	10	$1,000	10,012	2,276		10	$1,000	10,012	2,276	
LED Holiday Lighting	53	$133	49,417	4,118	13	59	$148	55,012	4,584	15
Residential Water Heating (low income included)										
High Efficiency Water Heater	44	$8,625	204,412	13,627	2	44	$8,625	204,412	13,627	2
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0	1	$375	19,259	1,926	0
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0	1	$375	23,110	1,926	0
Flow Restrictors - Faucet	96	$805	320,319	35,591	2	96	$805	320,319	35,591	2
Flow Restrictors - Shower	52	$872	329,004	32,900	3	52	$872	329,004	32,900	3
Pipe Insulation	8	$50	14,252	950	0	8	$50	14,252	950	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	12	$780	29,304	2,664	1	14	$910	34,188	3,108	1
ENERGY STAR Qualified Dishwasher	7	$219	9,060	824	1	9	$281	11,648	1,059	1
ENERGY STAR Qualified Refrigerator	12	$375	18,981	1,265	0	14	$438	22,145	1,476	0
ENERGY STAR Qualified Freezer	12	$375	13,387	892	0	14	$438	15,618	1,041	0
Appliance Recycling	44	$3,025	376,846	42,008	7	47	$3,231	395,484	44,147	8
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0	1	$1,250	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits	50	$1,563	508,491	56,499	7	50	$1,563	508,491	56,499	7
Building Shell - Existing Home Only										
Weatherization Rebates	21	$8,166	672,149	23,665	1	21	$8,166	672,149	23,665	1
Residential Total	**1,164**	**$58,834**	**7,590,890**	**529,279**	**111**	**1,257**	**$60,338**	**7,685,568**	**538,494**	**118**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	4	$40	5,172	808	0	6	$60	7,758	1,212	0
Agricultural										
Efficient Livestock Waterers										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	4	$4,000	264,890	52,978	11	4	$4,000	264,890	52,978	11
Ag, Commercial and Industrial Total	**8**	**$4,040**	**270,062**	**53,786**	**11**	**10**	**$4,060**	**272,648**	**54,190**	**11**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I										
Energy Audit Services - Residential *	15	$3,000				18	$3,600			
IV. Educational & Research Programs										
Model Housing Education										
Member Information and Education	1,477	$33,000				1,477	$33,000			
Peak Alert	1,477					1,477				
Living with Energy in Iowa	1,477	$2,122				1,477	$2,122			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,477	$5,200				1,477	$5,200			
TOTAL	**7,095**	**$106,196**	**7,860,953**	**583,065**	**121**	**7,193**	**$108,319**	**7,958,216**	**592,685**	**129**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	8	$1,688	37,591	2,685	3
Geothermal Heat Pump	11	$19,113	2,921,365	146,068	17	11	$19,113	2,921,365	146,068	17
Air Source Heat Pump	17	$10,625	2,002,862	133,524	17	17	$10,625	2,002,862	133,524	17
Heat Recovery Ventilators	2	$313	25,042	1,252		2	$313	25,042	1,252	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	350	$767	167,327	22,922	21	350	$767	167,327	22,922	21
Local CFL Rebate Program(s)	401	$1,504	191,709	26,261	24	457	$1,714	218,481	29,929	27
T8 or better Lighting Fixtures	66	$495	61,712	3,763	1	75	$563	62,531	3,813	1
ENERGY STAR LED lighting	38	$143	50,869	2,826	2	46	$173	61,578	3,421	2
CFL Recycling						1	$95			
Exterior Lighting										
High Efficiency Exterior Lighting	10	$1,000	10,012	2,276		10	$1,000	10,012	2,276	
LED Holiday Lighting	65	$163	60,606	5,051	16	70	$175	65,268	5,439	18
Residential Water Heating (low income included)										
High Efficiency Water Heater	44	$8,625	204,412	13,627	2	44	$8,625	204,412	13,627	2
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0	1	$375	19,259	1,926	0
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0	1	$375	23,110	1,926	0
Flow Restrictors - Faucet	96	$805	320,319	35,591	2	97	$813	323,656	35,962	2
Flow Restrictors - Shower	52	$872	329,004	32,900	3	52	$872	329,004	32,900	3
Pipe Insulation	8	$50	14,252	950	0	8	$50	14,252	950	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	14	$910	34,188	3,108	1	14	$910	34,188	3,108	1
ENERGY STAR Qualified Dishwasher	9	$281	11,648	1,059	1	9	$281	11,648	1,059	1
ENERGY STAR Qualified Refrigerator	14	$438	22,145	1,476	0	14	$438	22,145	1,476	0
ENERGY STAR Qualified Freezer	14	$438	15,618	1,041	0	14	$438	15,618	1,041	0
Appliance Recycling	50	$3,438	414,122	46,286	9	53	$3,644	432,760	48,425	9
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0	1	$1,250	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits	50	$1,563	508,491	56,499	7	50	$1,563	508,491	56,499	7
Building Shell - Existing Home Only										
Weatherization Rebates	21	$8,166	672,149	23,665	1	21	$8,166	672,149	23,665	1
Residential Total	**1,342**	**$63,147**	**8,145,486**	**567,391**	**126**	**1,426**	**$64,026**	**8,216,049**	**575,003**	**132**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program										
High Efficiency Interior Lighting	6	$60	7,758	1,212	0	8	$80	10,343	1,616	0
Agricultural										
Efficient Livestock Waterers										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	4	$4,000	264,890	52,978	11	4	$4,000	264,890	52,978	11
Ag, Commercial and Industrial Total	**10**	**$4,060**	**272,648**	**54,190**	**11**	**12**	**$4,080**	**275,234**	**54,594**	**11**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - C&I										
Energy Audit Services - Residential *	21	$4,200				24	$4,800			
IV. Educational & Research Programs										
Model Housing Education										
Member Information and Education	1,477	$33,000				1,477	$33,000			
Peak Alert	1,477					1,477				
Living with Energy in Iowa	1,477	$2,122				1,477	$2,122			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,477	$5,200				1,477	$5,200			
TOTAL	**7,281**	**$111,728**	**8,418,134**	**621,581**	**137**	**7,370**	**$113,228**	**8,491,283**	**629,598**	**143**
Percentage of 5 year plan goal achieved										

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

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.

Grundy County REC has a five year plan to cut kWh, and hopefully we can cut more than what was set forth by the goals. Grundy County REC will continue to review and evaluate their progress toward the five year plan, and will make the necessary changes to the goals to make the best use of the energy efficiency program.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	9	2,894	36,410	13,004	2,601
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	40	$69,501	10,623,144	1,540,356	531,157	9	$15,036	2,390,207	597,552	119,510
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	1	$2,935	117,815	39,272	7,854
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	10	$1,565	125,208	18,781	6,260	1	$1,447	12,521	3,130	626
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	476	$505	227,565	155,866	31,173
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	2,232	$8,371	1,067,068	402,960	146,174	4,307	$13,890	2,059,078	1,410,327	282,065
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	85	$639	85,504	13,940	5,214	18	$141	12,452	3,796	759
ENERGY STAR LED lighting	Rebate for LED lighting.	180	$676	240,959	31,979	13,387	2	$57	2,677	744	149
Exterior Lighting											
LED Holiday Lighting	Rebate for holiday lighting.	171	$428	159,440	36,131	13,287	37	$384	34,499	14,375	2,875
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	27	$17,143	135,131	45,044	9,009
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	5	$1,875	96,293	28,888	9,629		$2			
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	4	$1,500	92,441	19,259	7,703		$2			
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	4	$1,500	89,777	20,574	7,481					
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	410	$3,435	1,368,031	456,010	152,003	54	$279	180,180	100,100	20,020
Flow Restrictors - Shower	Incentive for low-flow shower head.	205	$3,435	1,297,035	389,111	129,704	27	$279	170,829	85,415	17,083
Tank Insulation	Incentive for water heater tank insulation.	55	$345	94,017	28,205	9,402					
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	31	$4,847	75,702	34,410	6,882
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	50	$1,563	64,713	16,472	5,883	14	$1,830	18,120	8,236	1,647
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	108	$7,312	170,829	30,264	11,389	16	$2,201	25,308	8,436	1,687
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	62	$1,565	69,164	15,618	4,611	7	$807	7,809	2,603	521
Appliance Recycling	Incentives for appliance recycling.	260	$17,880	2,291,889	764,984	254,995	31	$5,899	185,791	107,642	21,528
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		$2			
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	195	$6,094	1,983,115	649,739	220,346	50	$1,759	508,491	282,495	56,499
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	140	$41,010	3,659,154	337,959	130,565	7	$3,177	211,688	35,281	7,056
Residential Total		**7,221**	**$258,720**	**32,670,115**	**6,718,905**	**2,353,896**	**5,124**	**$75,516**	**6,412,272**	**2,947,727**	**589,545**
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					
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					
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					
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 and Industrial Total		**2,375**	**$44,766**	**22,971,906**	**5,412,898**	**1,810,604**	**1**	**$198**	**55,361**	**18,454**	**3,691**
II. Demand Response Programs											
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	47	$16,920								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	27	$9,720					$5,630			
Energy Audit Services - Residential *	Energy Audit Services - Residential	70	$20,160				4	$726			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.							$501			
Member Information and Education	Member Information and Education	8,955	$117,148				1,778	$24,295			
Peak Alert	Peak Alert	9,540									
Living with Energy in Iowa	Living with Energy in Iowa magazine.	9,450	$44,927				1,778	$5,950			
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				1,778	$5,996			
TOTAL		**46,640**	**$546,187**	**55,642,021**	**12,131,804**	**4,164,500**	**10,463**	**$118,812**	**6,467,633**	**2,966,181**	**593,236**
Percentage of 5 year plan goal achieved								**22%**	**12%**		**14%**

* 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 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
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
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					
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			
Additional Low Income										
Energy Efficiency Kits	35	$1,094	355,944	39,549	5	50	$1,759	508,491	56,499	7
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**
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					
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 and Industrial Total	**427**	**$8,834**	**4,568,672**	**354,555**	**43**	**1**	**$198**	**55,361**	**3,691**	**0**
II. Demand Response Programs										
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			
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	$1,188	26,931	1,924	2
Geothermal Heat Pump	8	$13,900	2,124,629	106,231	12	8	$13,900	2,124,629	106,231	12
Air Source Heat Pump	10	$6,250	1,178,154	78,544	10	13	$8,125	1,531,600	102,107	13
Heat Recovery Ventilators	2	$313	25,042	1,252		2	$313	25,042	1,252	
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	500	$1,095	239,039	32,745	30	500	$1,095	239,039	32,745	30
Local CFL Rebate Program(s)	362	$1,358	173,064	23,707	22	431	$1,616	206,051	28,226	26
T8 or better Lighting Fixtures	15	$113	14,418	879	0	20	$150	20,498	1,250	0
ENERGY STAR LED lighting	25	$94	33,467	1,859	1	36	$135	48,192	2,677	1
Exterior Lighting										
LED Holiday Lighting	30	$75	27,972	2,331	8	40	$100	37,296	3,108	10
Residential Water Heating (low income included)										
High Efficiency Water Heater	27	$5,500	128,888	8,593	1	30	$6,250	145,521	9,701	1
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0	1	$375	19,259	1,926	0
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0	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	82	$687	273,606	30,401	2
Flow Restrictors - Shower	41	$687	259,407	25,941	2	41	$687	259,407	25,941	2
Tank Insulation	11	$69	18,803	1,880	0	11	$69	18,803	1,880	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	8	$520	19,536	1,776	1	10	$650	24,420	2,220	1
ENERGY STAR Qualified Dishwasher	9	$281	11,648	1,059	1	10	$313	12,943	1,177	1
ENERGY STAR Qualified Refrigerator	18	$562	28,472	1,898	0	22	$688	34,799	2,320	0
ENERGY STAR Qualified Freezer	10	$313	11,156	744	0	10	$313	11,156	744	0
Appliance Recycling	52	$3,576	458,378	50,999	9	52	$3,576	458,378	50,999	9
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0	1	$1,250	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits	40	$1,250	406,793	45,199	5	40	$1,250	406,793	45,199	5
Building Shell - Existing Home Only										
Weatherization Rebates	22	$6,472	581,646	20,776	2	29	$8,907	790,536	28,042	2
Residential Total	**1,282**	**$46,303**	**6,116,714**	**443,699**	**108**	**1,398**	**$52,387**	**6,793,751**	**484,976**	**120**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	250	$548	135,864	37,740	15	250	$548	135,864	37,740	15
High Efficiency Interior Lighting	160	$770	143,640	33,572	1	160	$770	143,640	33,572	1
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$750	4,446	296	0	3	$750	4,446	296	0
Geothermal Heat Pump	1	$1,738	17,360	868	0	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	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	5	$1,000	23,560	1,571	0
Heat Pump Water Heater	1	$375	23,110	1,926	0	1	$375	23,110	1,926	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	10	$375	106,893	7,126	1	10	$375	106,893	7,126	1
Variable Speed Drive Motor Incentive	10	$375	3,728,934	248,596	22	10	$375	3,728,934	248,596	22
Agricultural										
Dairy Pre-coolers Incentive	1	$625	147,103	9,807	5	1	$625	147,103	9,807	5
Livestock Ventilation Fans	5	$214	28,651	2,388	1	5	$214	28,651	2,388	1
Circulating Fans --- BESS Lab Ratings	5	$223	15,558	1,296	0	5	$223	15,558	1,296	0
Scroll compressor (milk cooling)	2	$75	110,723	7,382	1	2	$75	110,723	7,382	1
Efficient Livestock Waterers	2	$125	19,074	1,590		2	$125	19,074	1,590	
Hog Farrowing - Heat Lamps (<= 175W)	20	$75	13,409	3,352		20	$75	13,409	3,352	
Hog Farrowing - Single Crate Heating Pads (<=85W)	5	$150	10,046	1,005		5	$150	10,046	1,005	
Hog Farrowing - Double Crate Heating Pads(<=170W)	5	$315	20,091	2,009		5	$315	20,091	2,009	
Ag, Commercial and Industrial Total	**487**	**$8,983**	**4,600,808**	**364,012**	**46**	**487**	**$8,983**	**4,600,808**	**364,012**	**46**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	9	$3,240				9	$3,240			
Expert Energy Services - C&I	5	$1,800				5	$1,800			
Energy Audit Services - Residential *	12	$3,456				14	$4,032			
IV. Educational & Research Programs										
Model Housing Education										
Member Information and Education	1,791	$22,925				1,791	$23,419			
Peak Alert	1,890					1,890				
Living with Energy in Iowa	1,890	$8,806				1,890	$8,982			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,791	$6,630				1,791	$6,762			
TOTAL	**9,157**	**$102,143**	**10,717,523**	**807,711**	**154**	**9,275**	**$109,605**	**11,394,559**	**848,988**	**165**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	10	$1,750	39,658	2,833	3
Geothermal Heat Pump	8	$13,900	2,124,629	106,231	12	9	$15,638	2,390,207	119,510	14
Air Source Heat Pump	13	$8,125	1,531,600	102,107	13	13	$8,125	1,531,600	102,107	13
Heat Recovery Ventilators	2	$313	25,042	1,252		2	$313	25,042	1,252	
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	600	$1,314	286,846	39,294	36	650	$1,424	310,750	42,569	39
Local CFL Rebate Program(s)	501	$1,879	239,517	32,810	30	570	$2,138	272,504	37,329	34
T8 or better Lighting Fixtures	20	$150	20,498	1,250	0	20	$150	20,498	1,250	0
ENERGY STAR LED lighting	47	$176	62,917	3,495	2	58	$218	77,642	4,313	2
Exterior Lighting										
LED Holiday Lighting	40	$100	37,296	3,108	10	40	$100	37,296	3,108	10
Residential Water Heating (low income included)										
High Efficiency Water Heater	35	$7,500	173,243	11,550	2	40	$8,750	200,966	13,398	2
Heat Pump Water Heater - (Add-On)	1	$375	19,259	1,926	0	1	$375	19,259	1,926	0
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0	1	$375	23,110	1,926	0
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0	1	$375	22,444	1,870	0
Flow Restrictors - Faucet	82	$687	273,606	30,401	2	82	$687	273,606	30,401	2
Flow Restrictors - Shower	41	$687	259,407	25,941	2	41	$687	259,407	25,941	2
Tank Insulation	11	$69	18,803	1,880	0	11	$69	18,803	1,880	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	10	$650	24,420	2,220	1	10	$650	24,420	2,220	1
ENERGY STAR Qualified Dishwasher	11	$344	14,237	1,294	1	12	$375	15,531	1,412	1
ENERGY STAR Qualified Refrigerator	25	$781	39,544	2,636	0	29	$906	45,871	3,058	0
ENERGY STAR Qualified Freezer	10	$313	11,156	744	0	10	$313	11,156	744	0
Appliance Recycling	52	$3,576	458,378	50,999	9	52	$3,576	458,378	50,999	9
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0	1	$1,250	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits	40	$1,250	406,793	45,199	5	40	$1,250	406,793	45,199	5
Building Shell - Existing Home Only										
Weatherization Rebates	34	$9,694	868,076	31,081	3	40	$11,453	1,012,265	36,190	3
Residential Total	**1,593**	**$55,071**	**7,001,050**	**502,248**	**131**	**1,743**	**$60,947**	**7,530,505**	**532,545**	**142**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	250	$548	135,864	37,740	15	250	$548	135,864	37,740	15
High Efficiency Interior Lighting	160	$770	143,640	33,572	1	160	$770	143,640	33,572	1
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$750	4,446	296	0	3	$750	4,446	296	0
Geothermal Heat Pump	1	$1,738	17,360	868	0	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	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	5	$1,000	23,560	1,571	0
Heat Pump Water Heater	1	$375	23,110	1,926	0	1	$375	23,110	1,926	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	10	$375	106,893	7,126	1	10	$375	106,893	7,126	1
Variable Speed Drive Motor Incentive	10	$375	3,728,934	248,596	22	10	$375	3,728,934	248,596	22
Agricultural										
Dairy Pre-coolers Incentive	1	$625	147,103	9,807	5	1	$625	147,103	9,807	5
Livestock Ventilation Fans	5	$214	28,651	2,388	1	5	$214	28,651	2,388	1
Circulating Fans --- BESS Lab Ratings	5	$223	15,558	1,296	0	5	$223	15,558	1,296	0
Scroll compressor (milk cooling)	2	$75	110,723	7,382	1	2	$75	110,723	7,382	1
Efficient Livestock Waterers	2	$125	19,074	1,590		2	$125	19,074	1,590	
Hog Farrowing - Heat Lamps (<= 175W)	20	$75	13,409	3,352		20	$75	13,409	3,352	
Hog Farrowing - Single Crate Heating Pads (<=85W)	5	$150	10,046	1,005		5	$150	10,046	1,005	
Hog Farrowing - Double Crate Heating Pads(<=170W)	5	$315	20,091	2,009		5	$315	20,091	2,009	
Ag, Commercial and Industrial Total	**487**	**$8,983**	**4,600,808**	**364,012**	**46**	**487**	**$8,983**	**4,600,808**	**364,012**	**46**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$3,600				11	$3,960			
Expert Energy Services - C&I	6	$2,160				7	$2,520			
Energy Audit Services - Residential *	16	$4,608				18	$5,184			
IV. Educational & Research Programs										
Model Housing Education										
Member Information and Education	1,791	$23,923				1,791	$24,438			
Peak Alert	1,980					1,890				
Living with Energy in Iowa	1,890	$9,161				1,890	$9,345			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,791	$6,898				1,791	$7,036			
TOTAL	**9,564**	**$114,404**	**11,601,858**	**866,261**	**177**	**9,628**	**$122,413**	**12,131,313**	**896,557**	**188**
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 14. 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.

Grundy Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	60	$720	28,685	19,647	3,929
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	5	$367	7,493	1,499	500					
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					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	15	$11,298	665,584	68,831	22,944					
Residential Total		**130**	**$18,959**	**843,217**	**121,495**	**40,498**	**60**	**$720**	**28,685**	**19,647**	**3,929**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.						30	$1,580			
Air Conditioning Load Control	Load control for air conditioning						5	$340			
III. Energy Audit & Technical Support Programs											
Energy Audit Services - Residential *	Energy Audit Services - Residential	5	$500								
IV. Educational & Research Programs											
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						225	$400			
TOTAL		**135**	**$19,459**	**843,217**	**121,495**	**40,498**	**545**	**$3,290**	**28,685**	**19,647**	**3,929**
Percentage of 5 year plan goal achieved								**17%**	**3%**		**10%**

* 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					
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**
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										
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	10	$255	4,781	655	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	1	$73	1,499	100	0	1	$73	1,499	100	0
Flow Restrictors - Faucet	1	$59	3,337	371	0	1	$59	3,337	371	0
Flow Restrictors - Shower	1	$137	6,327	633	0	1	$137	6,327	633	0
Tank Insulation	1	$77	1,709	171	0	1	$77	1,709	171	0
Pipe Insulation	1	$31	1,782	119	0	1	$31	1,782	119	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$690	12,210	1,110	0	5	$690	12,210	1,110	0
ENERGY STAR Qualified Dishwasher	3	$211	3,883	353	0	3	$211	3,883	353	0
Building Shell - Existing Home Only										
Weatherization Rebates	3	$2,260	133,117	4,589	0	3	$2,260	133,117	4,589	0
Residential Total	**26**	**$3,792**	**168,643**	**8,100**	**2**	**26**	**$3,792**	**168,643**	**8,100**	**2**
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	$100			
IV. Educational & Research Programs										
Peak Alert										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network										
TOTAL	**27**	**$3,892**	**168,643**	**8,100**	**2**	**27**	**$3,892**	**168,643**	**8,100**	**2**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	10	$255	4,781	655	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	1	$73	1,499	100	0	1	$73	1,499	100	0
Flow Restrictors - Faucet	1	$59	3,337	371	0	1	$59	3,337	371	0
Flow Restrictors - Shower	1	$137	6,327	633	0	1	$137	6,327	633	0
Tank Insulation	1	$77	1,709	171	0	1	$77	1,709	171	0
Pipe Insulation	1	$31	1,782	119	0	1	$31	1,782	119	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$690	12,210	1,110	0	5	$690	12,210	1,110	0
ENERGY STAR Qualified Dishwasher	3	$211	3,883	353	0	3	$211	3,883	353	0
Building Shell - Existing Home Only										
Weatherization Rebates	3	$2,260	133,117	4,589	0	3	$2,260	133,117	4,589	0
Residential Total	**26**	**$3,792**	**168,643**	**8,100**	**2**	**26**	**$3,792**	**168,643**	**8,100**	**2**
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	$100			
IV. Educational & Research Programs										
Peak Alert										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network										
TOTAL	**27**	**$3,892**	**168,643**	**8,100**	**2**	**27**	**$3,892**	**168,643**	**8,100**	**2**
Percentage of 5 year plan goal achieved										

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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.

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Guthrie County Rural Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy

efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

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		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	18	2,761	101,803	36,358	7,272
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	5	$162	4,414	1,471	490	2	$77	1,766	981	196
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	26	$43,625	6,855,900	1,713,975	342,795
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	31	$31,090	3,626,284	1,208,761	241,752
Residential Contractor Rebates	Incentive for heat pump installs	121	$24,200				29	$5,836			
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	2,098	$3,126	1,114,042	763,042	152,608
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	4,628	$12,031	2,196,793	936,474	300,931	131	$488	62,182	42,591	8,518
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	5	$97	14,978	2,496	832					
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	97	$5,882	103,783	103,783	23,587
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	32	$4,620	128,632	42,877	8,575
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	54	$3,578	113,472	51,578	10,316
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	75	$2,435	96,379	26,285	8,762	17	$650	21,846	9,930	1,986
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	100	$3,247	157,049	31,410	10,470	56	$2,143	87,948	29,316	5,863
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	25	$812	70,424	17,606	5,869	1	$38	2,817	1,174	235
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	50	$1,624	55,381	11,076	3,692	11	$421	12,184	4,061	812
Appliance Recycling	Incentives for appliance recycling.	50	$3,824	536,612	178,871	59,624					
Efficient Television	Rebate for efficient television.	32	$1,661	63,481	15,044	5,290					
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					
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					
Residential Total		**10,216**	**$807,228**	**82,829,600**	**15,049,619**	**5,240,026**	**2,603**	**$104,336**	**12,232,658**	**4,008,428**	**804,516**
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					
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	73	$3,652	198,672	155,212	31,042
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					
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**	**298**	**$46,105**	**9,780,329**	**2,550,627**	**510,125**
II. Demand Response Programs											
Irrigation											
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											
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	23,350	$68,110				3,666	$16,603			
Peak Alert	Peak Alert	23,350									
Living with Energy in Iowa	Living with Energy in Iowa magazine.	18,350	$31,385				3,666	$11,098			
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				3,666	$12,706			
TOTAL		**101,957**	**$1,242,843**	**109,533,344**	**22,215,234**	**7,337,521**	**13,907**	**$192,570**	**22,012,987**	**6,559,055**	**1,314,641**
Percentage of 5 year plan goal achieved								**15%**	**20%**		**18%**

* 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
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 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
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**
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**
	915	$87,230	12,702,116	770,894	52					
II. Demand Response Programs										
Irrigation										
Commercial and Industrial Time-of-Day Price	9	$1,957				8	$1,721			
III. Energy Audit & Technical Support Programs										
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 progr.

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	20	$3,247	97,514	6,965	7
ENERGY STAR Qualified Room Air Conditioner	1	$33	883	98	0	1	$32	883	98	0
Geothermal Heat Pump	29	$59,706	7,646,965	382,348	12	32	$65,455	8,438,030	421,902	14
Air Source Heat Pump	32	$28,627	3,743,261	249,551	10	35	$31,169	4,094,191	272,946	11
Residential Contractor Rebates	23	$4,600				25	$5,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	431	$1,127	204,585	28,025	26	409	$1,062	194,142	26,595	25
Local CFL Rebate Program(s)	1,000	$2,614	474,674	65,024	60	950	$2,468	450,941	61,773	57
ENERGY STAR Ceiling Fan	1	$20	2,996	166	0	1	$19	2,996	166	0
Exterior Lighting										
High Efficiency Exterior Lighting	60	$2,353	59,646	13,556	1	61	$2,377	60,640	13,782	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	56	$8,301	223,555	14,904	2	57	$8,377	226,994	15,133	2
Flow Restrictors - Faucet	150	$5,882	496,937	55,215	3	173	$6,740	573,134	63,682	3
Flow Restrictors - Shower	150	$9,804	942,296	94,230	8	173	$11,234	1,086,781	108,678	9
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$1,693	65,465	5,951	2	27	$1,682	65,465	5,951	2
ENERGY STAR Qualified Dishwasher	15	$490	19,276	1,752	1	15	$487	19,276	1,752	1
ENERGY STAR Qualified Refrigerator	20	$654	31,410	2,094	0	20	$649	31,410	2,094	0
ENERGY STAR Qualified Dehumidifier	5	$163	14,085	1,174	0	5	$162	14,085	1,174	0
ENERGY STAR Qualified Freezer	10	$327	11,076	738	0	10	$325	11,076	738	0
Appliance Recycling	10	$765	107,322	11,925	2	10	$765	107,322	11,925	2
Efficient Television	6	$314	11,903	992	0	7	$364	13,886	1,157	0
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,307	66,126	2,204	0	2	$1,299	66,126	2,204	0
Additional Low Income										
Energy Efficiency Kits	18	$824	182,468	20,274	2	14	$636	141,920	15,769	2
Building Shell - Existing Home Only										
Weatherization Rebates	54	$20,624	1,217,600	41,652	6	60	$23,281	1,402,439	47,963	6
Residential Total	**2,120**	**$153,495**	**15,620,041**	**998,839**	**142**	**2,107**	**$166,829**	**17,099,249**	**1,082,447**	**142**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	73	$191	39,390	10,942	4	69	$179	37,232	10,342	4
High Efficiency Interior Lighting	437	$7,644	520,850	100,829	1	491	$8,656	588,297	113,319	2
Exterior Lighting										
High Efficiency Exterior Lighting	1	$39	1,107	226	0	1	$39	1,107	226	0
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$98	4,414	294	0	3	$97	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	4	$1,039	93,304	6,220	0
Commercial Contractor Rebate (GS & AS)	14	$732				4	$208			
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,569	370,239	24,683	2	1	$1,558	370,239	24,683	2
Agricultural										
Ventilation Thermostat Controller						1	$32	2,711	226	0
Circulating Fans --- BESS Lab Ratings	6	$287	23,726	1,977	1	7	$333	27,680	2,307	1
Hog Farrowing - Single Crate Heating Pads (<=85W)	8	$261	15,958	1,596		9	$292	17,953	1,795	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$26,591	2,152,256	162,739	16	2	$26,419	2,152,256	162,739	16
Ag, Commercial and Industrial Total	**559**	**$43,034**	**3,647,096**	**330,798**	**27**	**592**	**$38,854**	**3,295,193**	**322,151**	**26**
	559	$43,034	3,647,096	330,798	27	592	$38,854	3,295,193	322,151	26
II. Demand Response Programs										
Irrigation										
Commercial and Industrial Time-of-Day Price	9	$2,007				9	$2,075			
III. Energy Audit & Technical Support Programs										
IV. Educational & Research Programs										
Member Information and Education	4,665	$13,315				4,670	$13,620			
Peak Alert	4,665					4,670				
Living with Energy in Iowa	3,665	$6,277				3,670	$6,277			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,665	$14,226				4,670	$14,795			
TOTAL	**20,348**	**$232,354**	**19,267,137**	**1,329,637**	**169**	**20,388**	**$242,449**	**20,394,443**	**1,404,599**	**168**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	20	$3,205	97,514	6,965	7
ENERGY STAR Qualified Room Air Conditioner	1	$32	883	98	0	1	$32	883	98	0
Geothermal Heat Pump	34	$69,097	8,965,407	448,270	15	36	$72,692	9,492,784	474,639	15
Air Source Heat Pump	37	$32,774	4,328,145	288,543	11	39	$34,359	4,562,099	304,140	12
Residential Contractor Rebates	26	$5,200				27	$5,400			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	376	$970	178,478	24,449	23	346	$887	164,237	22,498	21
Local CFL Rebate Program(s)	874	$2,255	414,865	56,831	52	804	$2,062	381,638	52,279	48
ENERGY STAR Ceiling Fan	1	$19	2,996	166	0	1	$19	2,996	166	0
Exterior Lighting										
High Efficiency Exterior Lighting	63	$2,439	62,628	14,234	1	65	$2,500	64,616	14,685	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	58	$8,452	230,433	15,362	2	59	$8,526	233,871	15,591	2
Flow Restrictors - Faucet	182	$7,045	602,950	66,994	4	187	$7,192	619,515	68,835	4
Flow Restrictors - Shower	182	$11,742	1,143,319	114,332	9	187	$11,987	1,174,728	117,473	9
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	27	$1,671	65,465	5,951	2	27	$1,660	65,465	5,951	2
ENERGY STAR Qualified Dishwasher	15	$484	19,276	1,752	1	15	$481	19,276	1,752	1
ENERGY STAR Qualified Refrigerator	20	$645	31,410	2,094	0	20	$641	31,410	2,094	0
ENERGY STAR Qualified Dehumidifier	5	$161	14,085	1,174	0	5	$160	14,085	1,174	0
ENERGY STAR Qualified Freezer	10	$323	11,076	738	0	10	$321	11,076	738	0
Appliance Recycling	10	$765	107,322	11,925	2	10	$765	107,322	11,925	2
Efficient Television	7	$361	13,886	1,157	0	7	$359	13,886	1,157	0
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,290	66,126	2,204	0	2	$1,282	66,126	2,204	0
Additional Low Income										
Energy Efficiency Kits	7	$316	70,960	7,884	1	4	$179	40,548	4,505	1
Building Shell - Existing Home Only										
Weatherization Rebates	62	$23,484	1,411,729	48,273	6	62	$23,333	1,411,729	48,273	6
Residential Total	**2,019**	**$172,752**	**17,838,952**	**1,119,399**	**137**	**1,934**	**$178,043**	**18,575,805**	**1,157,145**	**132**

Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	63	$163	33,994	9,443	4	58	$149	31,296	8,693	3
High Efficiency Interior Lighting	515	$8,970	614,434	118,621	2	515	$8,912	614,434	118,621	2
Exterior Lighting										
High Efficiency Exterior Lighting	1	$39	1,107	226	0	1	$38	1,107	226	0
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	3	$97	4,414	294	0	3	$96	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	4	$1,026	93,304	6,220	0
Commercial Contractor Rebate (GS & AS)	14	$723				4	$205			
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,548	370,239	24,683	2	1	$1,538	370,239	24,683	2
Agricultural										
Ventilation Thermostat Controller	1	$32	2,711	226	0	1	$32	2,711	226	0
Circulating Fans --- BESS Lab Ratings	7	$331	27,680	2,307	1	7	$329	27,680	2,307	1
Hog Farrowing - Single Crate Heating Pads (<=85W)	9	$290	17,953	1,795		9	$288	17,953	1,795	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$26,248	2,152,256	162,739	16	2	$26,080	2,152,256	162,739	16
Ag, Commercial and Industrial Total	**630**	**$43,989**	**3,743,944**	**347,847**	**26**	**605**	**$38,694**	**3,315,395**	**325,805**	**25**
	630	$43,989	3,743,944	347,847	26	605	$38,694	3,315,395	325,805	25
II. Demand Response Programs										
Irrigation										
Commercial and Industrial Time-of-Day Price	9	$2,129				9	$2,173			
III. Energy Audit & Technical Support Programs										
IV. Educational & Research Programs										
Member Information and Education	4,675	$13,926				4,680	$14,231			
Peak Alert	4,675					4,680				
Living with Energy in Iowa	3,675	$6,277				3,680	$6,277			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,670	$15,366				4,680	$15,936			
TOTAL	**20,353**	**$254,439**	**21,582,896**	**1,467,245**	**163**	**20,268**	**$255,354**	**21,891,200**	**1,482,950**	**157**
Percentage of 5 year plan goal achieved										

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

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 timeliness.

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 14. 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.

Harrison County Rural Electric Cooperative’s five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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					
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					
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	42	$104,210	11,154,301	1,580,193	557,715	19	$54,300	5,045,993	1,261,498	252,300
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	39	$29,850	4,594,801	1,531,600	306,320
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	155	$382	74,102	50,755	10,151
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.						1,954	$5,752	934,162	639,837	127,967
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	44	$13,200	152,381	50,794	10,159
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	22	$1,650	68,498	31,136	6,227
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	225	$7,044	291,209	70,008	26,474	9	$338	11,648	5,295	1,059
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	182	$5,688	287,879	50,932	19,192	16	$600	25,308	8,436	1,687
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	270	$8,445	301,199	53,249	20,080	8	$300	8,924	2,975	595
Appliance Recycling	Incentives for appliance recycling.	384	$23,229	3,407,452	1,134,437	378,946					
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	50	$2,130	508,491	169,497	56,499	50	$1,688	508,491	282,495	56,499
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	110	$68,716	5,025,636	420,326	167,521	5	$3,000	226,440	37,740	7,548
Residential Total		**14,090**	**$530,503**	**59,554,102**	**12,286,412**	**4,263,970**	**2,321**	**$111,060**	**11,650,749**	**3,902,560**	**780,512**
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					
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	5	$7,785	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	$7,065	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**	**0**	**$0**	**0**	**0**	**0**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	8,151	$596,071				1,430	$112,273			
Air Conditioning Load Control	Load control for air conditioning	7,171	$518,957				1,245	$97,748			
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.						7	$550			
Irrigation											
Load Control	Irrigation load control.	660	$48,353				116	$9,107			
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								
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	11,865	$24,360				2,379	$16,967			
Peak Alert	Peak Alert	11,865	$1,640								
Living with Energy in Iowa	Living with Energy in Iowa magazine.	11,865	$28,620				2,379	$6,784			
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				2,379	$8,394			
TOTAL		**90,530**	**$2,577,572**	**104,081,678**	**22,558,117**	**7,774,398**	**13,760**	**$480,966**	**11,650,749**	**3,902,560**	**780,512**
Percentage of 5 year plan goal achieved								**19%**	**11%**		**10%**

* 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
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**
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**
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

Harrison County Rural Electric Cooperative	2011 Estimated Achievable Potential					2012 Estimated Achievable Potential				
	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Projected Participants	Projected Cost	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	8	$1,248	32,556	2,325	3
ENERGY STAR Qualified Room Air Conditioner	6	$201	4,735	526	1	8	$242	6,314	702	1
Geothermal Heat Pump	8	$18,562	2,124,629	106,231	12	8	$20,853	2,124,629	106,231	12
Air Source Heat Pump	49	$36,589	5,772,955	384,864	50	49	$36,994	5,772,955	384,864	50
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,899	$4,273	907,868	124,366	114	2,290	$5,152	1,094,796	149,972	137
Local CFL Rebate Program(s)										
Residential Water Heating (low income included)										
High Efficiency Water Heater	67	$16,628	325,691	21,713	3	67	$16,787	325,691	21,713	3
Flow Restrictors - Faucet	54	$574	180,180	20,020	1	54	$574	180,180	20,020	1
Flow Restrictors - Shower	27	$287	170,829	17,083	1	27	$287	170,829	17,083	1
Tank Insulation	27	$287	46,154	4,615	0	27	$287	46,154	4,615	0
Pipe Insulation	27	$287	48,102	3,207	1	27	$287	48,102	3,207	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$379	12,210	1,110	0	7	$459	17,094	1,554	1
ENERGY STAR Qualified Dishwasher	37	$1,162	47,888	4,353	3	45	$1,407	58,242	5,295	4
ENERGY STAR Qualified Refrigerator	30	$938	47,453	3,164	0	36	$1,136	56,943	3,796	0
ENERGY STAR Qualified Freezer	45	$1,394	50,200	3,347	0	54	$1,686	60,240	4,016	1
Appliance Recycling	77	$4,616	683,652	76,029	13	77	$4,644	683,652	76,029	13
Additional Low Income										
Energy Efficiency Kits	10	$426	101,698	11,300	1	10	$426	101,698	11,300	1
Building Shell - Existing Home Only										
Weatherization Rebates	17	$10,328	776,689	25,890	2	22	$13,698	1,005,127	33,504	3
Residential Total	**2,390**	**$97,961**	**11,320,760**	**809,233**	**205**	**2,816**	**$106,167**	**11,785,201**	**846,226**	**231**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	225	$450	122,278	33,966	14	271	$543	147,277	40,910	16
High Efficiency Interior Lighting	459	$1,012	430,969	93,157	1	551	$1,198	517,852	111,947	2
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,557	17,360	868	0	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	2	$1,413	52,348	3,490	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$912	27,722	1,848	0	5	$912	27,722	1,848	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	64	$25,586	684,115	45,608	6	64	$25,586	684,115	45,608	6
Variable Speed Drive Motor Incentive	20	$1,212	7,457,868	497,191	43	20	$1,212	7,457,868	497,191	43
Ag, Commercial and Industrial Total	**776**	**$32,142**	**8,792,660**	**676,128**	**64**	**914**	**$32,421**	**8,904,542**	**701,862**	**67**
II. Demand Response Programs										
Water Heater Load Control	1,563	$115,641			782	1,630	$119,110			815
Air Conditioning Load Control	1,367	$100,680			957	1,432	$103,701			1,002
Space Heating Load Control (Interruptible)	1,585	$119,118			7,133	1,642	$122,692			7,389
Dual-Fuel Space Heating	31	$2,507			186	31	$2,582			186
Crop Drying										
Load Control										
Irrigation										
Load Control	128	$9,381			845	132	$9,662			871
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600				3	$600			
Expert Energy Services - C&I	1	$300				1	$300			
Energy Audit Services - Residential *	6	$600				6	$600			
IV. Educational & Research Programs										
Member Information and Education	2,373	$4,872				2,373	$4,872			
Peak Alert	2,373	$328				2,373	$328			
Living with Energy in Iowa	2,373	$5,724				2,373	$5,724			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,373	$6,509				2,373	$6,509			
TOTAL	**17,342**	**$496,363**	**20,113,420**	**1,485,361**	**10,171**	**18,099**	**$515,268**	**20,689,743**	**1,548,088**	**10,562**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	9	$1,693	38,182	2,727	3
ENERGY STAR Qualified Room Air Conditioner	9	$284	7,103	789	1	10	$327	7,892	877	1
Geothermal Heat Pump	9	$23,060	2,390,207	119,510	14	10	$25,439	2,655,786	132,789	15
Air Source Heat Pump	50	$37,190	5,890,770	392,718	51	50	$37,608	5,890,770	392,718	51
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	3,082	$6,935	1,473,433	201,840	185
Local CFL Rebate Program(s)										
Residential Water Heating (low income included)										
High Efficiency Water Heater	67	$16,882	325,691	21,713	3	68	$17,048	331,235	22,082	3
Flow Restrictors - Faucet	54	$574	180,180	20,020	1	54	$574	180,180	20,020	1
Flow Restrictors - Shower	27	$287	170,829	17,083	1	27	$287	170,829	17,083	1
Tank Insulation	27	$287	46,154	4,615	0	27	$287	46,154	4,615	0
Pipe Insulation	27	$287	48,102	3,207	1	27	$287	48,102	3,207	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	9	$538	21,978	1,998	1	10	$620	24,420	2,220	1
ENERGY STAR Qualified Dishwasher	53	$1,651	68,596	6,236	5	61	$1,904	78,950	7,177	5
ENERGY STAR Qualified Refrigerator	43	$1,333	68,015	4,534	0	49	$1,538	77,506	5,167	0
ENERGY STAR Qualified Freezer	63	$1,979	70,280	4,685	1	73	$2,281	81,435	5,429	1
Appliance Recycling	77	$4,675	683,652	76,029	13	77	$4,706	683,652	76,029	13
Additional Low Income										
Energy Efficiency Kits	10	$426	101,698	11,300	1	10	$426	101,698	11,300	1
Building Shell - Existing Home Only										
Weatherization Rebates	27	$17,115	1,233,565	41,119	3	33	$20,577	1,507,691	50,256	4
Residential Total	**3,237**	**$114,056**	**12,619,188**	**903,199**	**259**	**3,677**	**$122,537**	**13,397,915**	**955,538**	**287**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	317	$634	172,276	47,854	19	365	$730	198,361	55,100	22
High Efficiency Interior Lighting	643	$1,380	604,736	130,737	2	739	$1,572	695,397	150,344	2
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,557	17,360	868	0	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	2	$1,413	52,348	3,490	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$912	27,722	1,848	0	5	$912	27,722	1,848	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	64	$25,586	684,115	45,608	6	64	$25,586	684,115	45,608	6
Variable Speed Drive Motor Incentive	20	$1,212	7,457,868	497,191	43	20	$1,212	7,457,868	497,191	43
Ag, Commercial and Industrial Total	**1,052**	**$32,694**	**9,016,425**	**727,596**	**70**	**1,196**	**$32,982**	**9,133,172**	**754,449**	**73**
II. Demand Response Programs										
Water Heater Load Control	1,697	$122,683			849	1,765	$126,364			883
Air Conditioning Load Control	1,499	$106,812			1,049	1,568	$110,016			1,098
Space Heating Load Control (Interruptible)	1,701	$126,372			7,655	1,761	$130,164			7,925
Dual-Fuel Space Heating	31	$2,660			186	31	$2,739			186
Crop Drying										
Load Control										
Irrigation										
Load Control	136	$9,952			898	142	$10,250			937
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600				3	$600			
Expert Energy Services - C&I	1	$300				1	$300			
Energy Audit Services - Residential *	6	$600				6	$600			
IV. Educational & Research Programs										
Member Information and Education	2,373	$4,872				2,373	$4,872			
Peak Alert	2,373	$328				2,373	$328			
Living with Energy in Iowa	2,373	$5,724				2,373	$5,724			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,373	$6,509				2,373	$6,509			
TOTAL	**18,855**	**$534,162**	**21,635,613**	**1,630,795**	**10,965**	**19,642**	**$553,985**	**22,531,087**	**1,709,987**	**11,388**
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. Hawkeye REC (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 14. 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 - new in 2009), 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.

HREC's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs. With the technological advancements and the improving economics in lighting along with the changing federal efficiency standards the area of energy efficient lighting incentives is one such area under review.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	18	2,890	51,935	18,548	3,710
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	25	$781	14,236	4,745	1,582	12	$300	6,833	3,796	759
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	64	$72,000	16,997,030	2,390,207	849,852	32	$21,700	8,498,515	2,124,629	424,926
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	24	$8,640	2,827,570	942,523	188,505
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					
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	3,700	$9,250	1,768,885	733,488	242,313	9,602	$9,601	4,590,495	3,144,175	628,835
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	35	$438	47,148	7,803	2,875					
ENERGY STAR LED lighting	Rebate for LED lighting.						14	$28	18,741	5,206	1,041
Exterior Lighting											
LED Holiday Lighting	Rebate for holiday lighting.	379	$3,790	353,380	83,528	29,448	511	$1,022	476,456	198,524	39,705
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	95	$42,933	526,723	175,574	35,115
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	49	$18,375	1,132,400	240,731	94,367	1	$300	23,110	9,629	1,926
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	1,250	$1,563	4,170,825	1,390,275	463,425					
Flow Restrictors - Shower	Incentive for low-flow shower head.	175	$1,094	1,107,225	300,533	110,723					
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	181	$4,525	442,002	200,910	40,182
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	481	$15,031	622,539	157,076	56,594	124	$3,100	160,488	72,949	14,590
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	550	$17,188	869,963	168,720	57,998	168	$4,200	265,734	88,578	17,716
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	65	$1,219	184,415	42,321	15,368	19	$475	53,906	22,461	4,492
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	161	$5,031	179,604	33,095	11,974	41	$1,025	45,738	15,246	3,049
Appliance Recycling	Incentives for appliance recycling.	288	$17,688	2,787,836	856,776	310,440	117	$5,625	1,094,418	610,733	122,147
Smart Strip	Incentive for smart power supply strip.	205	$1,281	227,550	58,275	22,755					
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**	**10,959**	**$106,364**	**19,082,664**	**7,633,481**	**1,526,696**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	892	$4,880	1,132,406	866,788	173,358
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					
Ag/Commercial & Industrial Heating and Cooling											
ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	5	$625	15,485	3,097	1,032					
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					
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					
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	200	$12,500	2,137,860	427,572	142,524					
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	10	$6,250	1,471,028	294,206	98,069					
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	5	$1,875	829,753	165,951	55,317					
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	10	$600	262,670	65,668	21,889					
Circulating Fans –- BESS Lab Ratings	Rebate for circulating fans.						8	$288	31,861	13,276	2,655
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	5	$938	276,806	55,361	18,454					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.						4	$200	38,148	15,895	3,179
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		0	$0			0		$0			
Custom Rebate Program		70	$46,624	16,317,000	2,952,600	1,087,800	2	$3,796	1,313,040	437,680	87,536
Ag, Commercial and Industrial Total		**3,107**	**$113,148**	**30,054,378**	**6,444,593**	**2,253,866**	**906**	**$9,164**	**2,515,456**	**1,333,639**	**266,728**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	20,100	$512,620				4,020	$102,524			
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			
Industrial Interruptible Price	Industrial Interruptible Price						74	$129,861			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	250	$250,000				37	$63,509			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	15	$3,750				2	$2,745			
Energy Audit Services - Residential *	Energy Audit Services - Residential	260	$52,000				3	$4,119			
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				5,420	$13,392			
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				5,420	$20,572			
TOTAL		**120,887**	**$3,075,408**	**77,891,032**	**16,601,595**	**5,753,542**	**27,282**	**$768,686**	**21,598,120**	**8,967,120**	**1,793,424**
Percentage of 5 year plan goal achieved								**25%**	**28%**		**31%**

* 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
T8 or better Lighting Fixtures	5	$63	6,735	411	0					
ENERGY STAR LED lighting						14	$28	18,741	1,041	1
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
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						
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**

	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					
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$1,250	27,722	1,848	0					
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	40	$2,500	427,572	28,505	4					
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**

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
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	8	$1,000	17,902	1,279	2
ENERGY STAR Qualified Room Air Conditioner	5	$156	2,847	316	0	5	$156	2,847	316	0
Geothermal Heat Pump	12	$13,500	3,186,943	159,347	18	13	$14,625	3,452,522	172,626	20
Air Source Heat Pump	12	$5,400	1,413,785	94,252	12	13	$5,850	1,531,600	102,107	13
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,000	$2,190	478,077	65,490	60	1,000	$2,190	478,077	65,490	60
Local CFL Rebate Program(s)	750	$1,875	358,558	49,118	45	750	$1,875	358,558	49,118	45
T8 or better Lighting Fixtures	6	$75	8,083	493	0	7	$88	9,430	575	0
ENERGY STAR LED lighting										
Exterior Lighting										
LED Holiday Lighting	70	$700	65,268	5,439	18	75	$750	69,930	5,828	19
Residential Water Heating (low income included)										
High Efficiency Water Heater	105	$26,250	582,167	38,811	5	100	$25,000	554,445	36,963	5
Heat Pump Water Heater - (Integrated)	8	$3,000	184,882	15,407	2	10	$3,750	231,102	19,259	2
Flow Restrictors - Faucet	250	$313	834,165	92,685	5	250	$313	834,165	92,685	5
Flow Restrictors - Shower	30	$188	189,810	18,981	2	35	$219	221,445	22,145	2
Pipe Insulation	50	$208	89,078	5,939	1	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	110	$6,875	268,620	24,420	9
ENERGY STAR Qualified Dishwasher	85	$2,656	110,012	10,001	8	96	$3,000	124,249	11,295	9
ENERGY STAR Qualified Refrigerator	105	$3,281	166,084	11,072	1	110	$3,438	173,993	11,600	1
ENERGY STAR Qualified Dehumidifier	11	$206	31,209	2,601	0	13	$244	36,883	3,074	0
ENERGY STAR Qualified Freezer	28	$875	31,235	2,082	0	32	$1,000	35,698	2,380	0
Appliance Recycling	49	$3,000	472,101	52,592	9	57	$3,500	551,082	61,367	10
Smart Strip	30	$188	33,300	3,330		40	$250	44,400	4,440	
Building Shell - Existing Home Only										
Weatherization Rebates	18	$4,500	546,853	20,047	2	21	$5,250	637,995	23,388	2
Residential Total	**2,736**	**$75,998**	**9,056,530**	**672,431**	**198**	**2,795**	**$79,579**	**9,724,019**	**716,291**	**206**

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	400	$876	217,382	60,384	24
High Efficiency Interior Lighting	135	$1,519	187,972	29,371	0	145	$1,631	201,896	31,546	0
Exterior Lighting										
High Efficiency Exterior Lighting	10	$188	23,605	4,817	0	13	$244	30,687	6,263	0
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0	1	$125	3,097	206	0
Air Cooled Chillers	1	$25	3,108	155	0	1	$25	3,108	155	0
Water Cooled Chillers										
Geothermal Heat Pump	3	$3,375	796,736	39,837	44	3	$3,375	796,736	39,837	44
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	6	$1,500	33,267	2,218	0	7	$1,750	38,811	2,587	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	40	$2,500	427,572	28,505	4	40	$2,500	427,572	28,505	4
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10	2	$1,250	294,206	19,614	10
Dairy Heat Reclaimer	1	$375	165,951	11,063	5	1	$375	165,951	11,063	5
Livestock Ventilation Fans	2	$120	52,534	4,378	0	2	$120	52,534	4,378	0
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)	1	$188	55,361	3,691	0	1	$188	55,361	3,691	0
Efficient Livestock Waterers										
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0	2	$125	19,221	1,068	0
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$750	444,087	26,123	2	2	$750	444,087	26,123	2
Hog Farrowing - Heat Lamp or Pad Controller	2	$125	15,583	950		2	$125	15,583	950	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	12	$4,284	2,797,200	186,480	94	14	$10,220	3,263,400	217,560	109
Ag, Commercial and Industrial Total	**620**	**$17,324**	**5,536,880**	**418,860**	**185**	**636**	**$23,679**	**6,029,630**	**453,930**	**201**

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
Industrial Interruptible Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	50	$50,000				50	$50,000			
Expert Energy Services - C&I	3	$750				3	$750			
Energy Audit Services - Residential *	52	$10,400				52	$10,400			
IV. Educational & Research Programs										
Model Housing Education	200	$1,000				200	$1,000			
Member Information and Education	5,400	$16,000				5,400	$16,000			
Peak Alert	5,400					5,400				
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,400	$15,827				5,400	$15,827			
TOTAL	**24,322**	**$606,258**	**14,593,410**	**1,091,291**	**4,808**	**24,397**	**$616,194**	**15,753,649**	**1,170,221**	**4,832**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	10	$1,250	22,378	1,598	2
ENERGY STAR Qualified Room Air Conditioner	5	$156	2,847	316	0	5	$156	2,847	316	0
Geothermal Heat Pump	14	$15,750	3,718,100	185,905	22	15	$16,875	3,983,679	199,184	23
Air Source Heat Pump	14	$6,300	1,649,416	109,961	14	15	$6,750	1,767,231	117,815	15
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	700	$1,750	334,654	45,843	42
T8 or better Lighting Fixtures	8	$100	10,777	657	0	9	$113	12,124	739	0
ENERGY STAR LED lighting										
Exterior Lighting										
LED Holiday Lighting	80	$800	74,592	6,216	20	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	100	$25,000	554,445	36,963	5
Heat Pump Water Heater - (Integrated)	12	$4,500	277,322	23,110	3	14	$5,250	323,543	26,962	3
Flow Restrictors - Faucet	250	$313	834,165	92,685	5	250	$313	834,165	92,685	5
Flow Restrictors - Shower	40	$250	253,080	25,308	2	45	$281	284,715	28,472	2
Pipe Insulation	50	$208	89,078	5,939	1	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	120	$7,500	293,040	26,640	10
ENERGY STAR Qualified Dishwasher	107	$3,344	138,486	12,590	10	118	$3,688	152,723	13,884	11
ENERGY STAR Qualified Refrigerator	115	$3,594	181,901	12,127	1	120	$3,750	189,810	12,654	1
ENERGY STAR Qualified Dehumidifier	15	$281	42,557	3,546	0	16	$300	45,395	3,783	0
ENERGY STAR Qualified Freezer	36	$1,125	40,160	2,677	0	40	$1,250	44,622	2,975	0
Appliance Recycling	66	$4,063	640,872	71,344	12	71	$4,375	687,425	76,517	13
Smart Strip	50	$313	55,500	5,550		60	$375	66,600	6,660	
Building Shell - Existing Home Only										
Weatherization Rebates	24	$6,000	729,137	26,729	2	27	$6,750	820,279	30,070	2
Residential Total	**2,860**	**$84,473**	**10,430,039**	**763,199**	**214**	**1,875**	**$86,833**	**10,592,667**	**736,691**	**159**

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	400	$876	217,382	60,384	24
High Efficiency Interior Lighting	155	$1,744	215,820	33,722	0	90	$1,013	125,315	19,580	0
Exterior Lighting										
High Efficiency Exterior Lighting	16	$300	37,768	7,708	0	19	$356	44,850	9,153	0
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	1	$125	3,097	206	0	1	$125	3,097	206	0
Air Cooled Chillers	1	$25	3,108	155	0	1	$25	3,108	155	0
Water Cooled Chillers										
Geothermal Heat Pump	3	$3,375	796,736	39,837	44	3	$3,375	796,736	39,837	44
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	8	$2,000	44,356	2,957	0	9	$2,250	49,900	3,327	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	40	$2,500	427,572	28,505	4	40	$2,500	427,572	28,505	4
Agricultural										
Dairy Pre-coolers Incentive	2	$1,250	294,206	19,614	10	2	$1,250	294,206	19,614	10
Dairy Heat Reclaimer	1	$375	165,951	11,063	5	1	$375	165,951	11,063	5
Livestock Ventilation Fans	2	$120	52,534	4,378	0	2	$120	52,534	4,378	0
Circulating Fans --- BESS Lab Ratings										
Scroll compressor (milk cooling)	1	$188	55,361	3,691	0	1	$188	55,361	3,691	0
Efficient Livestock Waterers										
Premium Motors Rebate Program - Dairy Vacuum Pump	2	$125	19,221	1,068	0	2	$125	19,221	1,068	0
Variable Speed Drive Motor - Dairy Vacuum Pump	2	$750	444,087	26,123	2	2	$750	444,087	26,123	2
Hog Farrowing - Heat Lamp or Pad Controller	2	$125	15,583	950		2	$125	15,583	950	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	16	$11,680	3,729,600	248,640	125	18	$13,140	4,195,800	279,720	140
Ag, Commercial and Industrial Total	**652**	**$25,557**	**6,522,380**	**489,001**	**216**	**593**	**$26,592**	**6,910,701**	**507,754**	**232**

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
Industrial Interruptible Price										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	50	$50,000				50	$50,000			
Expert Energy Services - C&I	3	$750				3	$750			
Energy Audit Services - Residential *	52	$10,400				52	$10,400			
IV. Educational & Research Programs										
Model Housing Education	200	$1,000				200	$1,000			
Member Information and Education	5,400	$16,000				5,400	$16,000			
Peak Alert	5,400					5,400				
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,400	$15,827				5,400	$15,827			
TOTAL	**24,478**	**$622,967**	**16,952,419**	**1,252,200**	**4,856**	**23,434**	**$626,362**	**17,503,368**	**1,244,445**	**4,817**
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 14. 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.

Heartland Power Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	26	4,150	76,519	27,328	5,466
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	7	$175	3,986	2,214	443
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	75	$84,375	19,918,395	2,987,759	995,920	64	$40,525	16,997,030	4,249,258	849,852
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	10	$3,540	1,178,154	392,718	78,544
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	7,676	$7,675	3,669,719	2,513,506	502,701
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	979	$12,238	1,318,807	213,071	80,415					
ENERGY STAR LED lighting	Rebate for LED lighting.	371	$928	496,643	67,528	27,591	3	$6	4,016	1,116	223
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					
LED Holiday Lighting	Rebate for holiday lighting.	600	$6,000	559,440	132,090	46,620	193	$386	179,953	74,981	14,996
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	94	$76,571	419,197	139,732	27,946
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	157	$58,875	3,628,301	797,302	302,358	2	$2,716	46,220	19,259	3,852
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					
Flow Restrictors - Shower	Incentive for low-flow shower head.	867	$5,419	5,485,509	1,999,965	548,551					
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	136	$3,400	332,112	150,960	30,192
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	141	$4,406	182,491	47,652	16,590	55	$1,375	71,184	32,357	6,471
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	220	$6,875	347,985	67,488	23,199	94	$2,350	148,685	49,562	9,912
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	270	$4,013	766,033	186,780	63,836	21	$525	59,580	24,825	4,965
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	60	$1,875	66,933	12,643	4,462	18	$450	20,080	6,693	1,339
Appliance Recycling	Incentives for appliance recycling.	292	$17,875	2,810,986	907,119	313,149	36	$2,644	351,668	195,371	39,074
Refrigerator		220	$13,750	2,378,020	768,653	264,224	26	$1,919	281,039	156,133	31,227
Freezer		60	$3,750	423,776	133,411	47,086	10	$725	70,629	39,239	7,848
Window AC Unit		12	$375	9,191	5,055	1,838					
Efficient Television	Rebate for efficient television.										
Smart Strip	Incentive for smart power supply strip.	635	$3,969	704,850	281,829	70,485	2	$10	2,220	1,110	222
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					
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**	**8,439**	**$146,617**	**23,585,366**	**7,887,249**	**1,577,450**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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)
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	348	$2,155	445,733	348,229	69,646
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					
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	25	$28,125	6,639,465	995,920	331,973					
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					
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.	30	$11,250	9,795,195	1,959,039	653,013					
Agricultural											
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	5	$1,875	829,753	165,951	55,317					
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	25	$1,500	95,904	23,976	7,992	78	$2,608	399,760	166,567	33,313
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.						2	$660	110,723	36,908	7,382
Efficient Livestock Waterers	Rebate for efficient livestock waterer.						13	$650	123,983	51,659	10,332
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							2	$3,864	997,320	332,440	66,488
Ag, Commercial and Industrial Total		**3,635**	**$78,163**	**21,561,695**	**5,242,486**	**1,747,495**	**450**	**$12,027**	**3,631,821**	**1,392,951**	**278,590**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	13,300	$114,800				2,581	$37,840			
Water Heater Storage	Water heater storage.	650	$91,650				10	$5,500			
Air Conditioning Load Control	Load control for air conditioning						116	$1,751			
Dual-Fuel Space Heating	Duel fuel space heating	4,745	$1,870,011				562	$444,076			
Crop Drying											
Off Peak Pricing	Crop drying off peak pricing.	70	$13,844				10				
Irrigation											
Load Control	Irrigation load control.						16				
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price						28				
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								
Energy Audit Services - Residential *	Energy Audit Services - Residential	220	$1,000				2	$300			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	26,215	$185,000				4,203	$94,454			
Peak Alert	Peak Alert	18,215	$22,000				4,203	$6,275			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	26,215	$125,000				4,203	$12,324			
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				4,203	$21,308			
TOTAL		**153,685**	**$3,090,382**	**85,736,003**	**21,580,839**	**7,207,690**	**29,045**	**$783,677**	**27,217,187**	**9,280,200**	**1,856,040**
Percentage of 5 year plan goal achieved								**25%**	**32%**		**26%**

* 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
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
Refrigerator	40	$2,500	432,367	48,041	8	26	$1,919	281,039	31,227	5
Freezer	10	$625	70,629	7,848	1	10	$725	70,629	7,848	2
Window AC Unit	2	$63	1,532	306	0					
Efficient Television										
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**

	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										
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 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
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**

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 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								
Energy Audit Services - Residential *	44	$200				2	$300			
IV. Educational & Research Programs										
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	15	$2,250	38,539	2,753	4
ENERGY STAR Qualified Room Air Conditioner	5	$156	2,847	316	0	8	$250	4,555	506	1
Geothermal Heat Pump	15	$16,875	3,983,679	199,184	23	15	$16,875	3,983,679	199,184	23
Air Source Heat Pump	10	$4,500	1,178,154	78,544	10	10	$4,500	1,178,154	78,544	10
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	5,409	$13,523	2,585,918	354,235	325
T8 or better Lighting Fixtures	161	$2,013	216,882	13,225	5	195	$2,438	262,684	16,017	6
ENERGY STAR LED lighting	54	$135	72,288	4,016	2	74	$185	99,061	5,503	3
Exterior Lighting										
High Efficiency Exterior Lighting	55	$1,031	62,190	13,853	1	57	$1,069	67,042	14,843	1
LED Holiday Lighting	110	$1,100	102,564	8,547	28	120	$1,200	111,888	9,324	30
Residential Water Heating (low income included)										
High Efficiency Water Heater	86	$21,500	476,823	31,788	4	81	$20,250	449,100	29,940	4
Heat Pump Water Heater - (Integrated)	26	$9,750	600,865	50,072	5	31	$11,625	716,416	59,701	7
Solar Water Heaters (w/ Electric auxiliary tank)	3	$1,125	67,333	5,611	1	4	$1,500	89,777	7,481	1
Flow Restrictors - Faucet	172	$215	573,906	63,767	3	174	$218	580,579	64,509	3
Flow Restrictors - Shower	115	$719	727,605	72,761	6	116	$725	733,932	73,393	6
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	62	$3,875	151,404	13,764	5	64	$4,000	156,288	14,208	5
ENERGY STAR Qualified Dishwasher	26	$813	33,651	3,059	2	28	$875	36,239	3,294	3
ENERGY STAR Qualified Refrigerator	42	$1,313	66,434	4,429	0	44	$1,375	69,597	4,640	0
ENERGY STAR Qualified Dehumidifier	52	$975	147,532	12,294	1	54	$1,013	153,207	12,767	1
ENERGY STAR Qualified Freezer	11	$344	12,271	818	0	12	$375	13,387	892	0
Appliance Recycling	55	$3,375	533,210	59,382	10	58	$3,563	561,891	62,568	11
Refrigerator	42	$2,625	453,986	50,443	8	44	$2,750	475,604	52,845	8
Freezer	11	$688	77,692	8,632	2	12	$750	84,755	9,417	2
Window AC Unit	2	$63	1,532	306	0	2	$63	1,532	306	0
Efficient Television										
Smart Strip	44	$275	48,840	4,884		54	$338	59,940	5,994	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,500	66,600	2,220	0	3	$2,250	99,900	3,330	1
Additional Low Income										
Weatherization Rebates	4	$1,000	158,508	5,650	1	5	$1,250	185,981	6,749	1
Residential Total	**5,932**	**$86,055**	**11,608,955**	**965,097**	**400**	**6,631**	**$91,644**	**12,237,753**	**1,030,377**	**444**

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	500	$1,095	271,728	75,480	30
High Efficiency Interior Lighting	168	$2,025	244,022	38,129	1	168	$2,025	244,022	38,129	1
Exterior Lighting										
High Efficiency Exterior Lighting	30	$563	33,450	6,827	0	30	$563	33,450	6,827	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	5	$5,625	1,327,893	66,395	74	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	2	$900	235,631	15,709	20
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1	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	$2,250	1,959,039	130,603	2
Agricultural										
Dairy Heat Reclaimer	1	$375	165,951	11,063	5	1	$375	165,951	11,063	5
Livestock Ventilation Fans	5	$300	19,181	1,598	1	5	$300	19,181	1,598	1
Scroll compressor (milk cooling)										
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**	**727**	**$15,633**	**4,312,339**	**349,499**	**132**

II. Demand Response Programs										
Water Heater Load Control	2,640	$4,200			1,320	2,660	$4,200			1,330
Water Heater Storage	130	$18,330			130	130	$18,330			130
Air Conditioning Load Control										
Dual-Fuel Space Heating	949	$374,002			5,694	949	$374,002			5,694
Crop Drying										
Off Peak Pricing	14	$2,769			28	14	$2,769			28
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				15	$4,500			
Energy Audit Services - Residential *	44	$200				44	$200			
IV. Educational & Research Programs										
Member Information and Education	5,243	$34,000				5,243	$37,000			
Peak Alert	3,623	$4,200				3,643	$4,400			
Living with Energy in Iowa	5,243	$24,500				5,243	$25,000			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,243	$20,625				5,243	$21,640			
TOTAL	**29,803**	**$589,014**	**15,921,294**	**1,314,596**	**7,704**	**30,542**	**$599,317**	**16,550,092**	**1,379,877**	**7,758**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	$2,250	38,539	2,753	4
ENERGY STAR Qualified Room Air Conditioner	8	$250	4,555	506	1	8	$250	4,555	506	1
Geothermal Heat Pump	15	$16,875	3,983,679	199,184	23	15	$16,875	3,983,679	199,184	23
Air Source Heat Pump	10	$4,500	1,178,154	78,544	10	10	$4,500	1,178,154	78,544	10
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	6,649	$16,623	3,178,734	435,443	399
T8 or better Lighting Fixtures	230	$2,875	309,832	18,892	7	265	$3,313	356,980	21,767	8
ENERGY STAR LED lighting	95	$238	127,173	7,065	4	115	$288	153,946	8,553	5
Exterior Lighting										
High Efficiency Exterior Lighting	57	$1,069	67,042	14,843	1	58	$1,088	69,467	15,338	1
LED Holiday Lighting	130	$1,300	121,212	10,101	33	140	$1,400	130,536	10,878	35
Residential Water Heating (low income included)										
High Efficiency Water Heater	76	$19,000	421,378	28,092	4	71	$17,750	393,656	26,244	4
Heat Pump Water Heater - (Integrated)	37	$13,875	855,077	71,256	8	43	$16,125	993,739	82,812	9
Solar Water Heaters (w/ Electric auxiliary tank)	4	$1,500	89,777	7,481	1	5	$1,875	112,221	9,352	1
Flow Restrictors - Faucet	176	$220	587,252	65,250	4	178	$223	593,925	65,992	4
Flow Restrictors - Shower	117	$731	740,259	74,026	6	119	$744	752,913	75,291	6
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	66	$4,125	161,172	14,652	5	68	$4,250	166,056	15,096	5
ENERGY STAR Qualified Dishwasher	30	$938	38,828	3,530	3	32	$1,000	41,416	3,765	3
ENERGY STAR Qualified Refrigerator	46	$1,438	72,761	4,851	0	48	$1,500	75,924	5,062	0
ENERGY STAR Qualified Dehumidifier	56		158,881	13,240	1	58	$1,088	164,555	13,713	1
ENERGY STAR Qualified Freezer	13	$406	14,502	967	0	14	$438	15,618	1,041	0
Appliance Recycling	62	$3,781	591,338	65,908	11	65	$3,969	620,019	69,095	12
Refrigerator	46	$2,875	497,222	55,247	9	48	$3,000	518,841	57,649	9
Freezer	13	$813	91,818	10,202	2	14	$875	98,881	10,987	2
Window AC Unit	3	$94	2,298	460	1	3	$94	2,298	460	1
Efficient Television										
Smart Strip	64	$400	71,040	7,104		73	$456	81,030	8,103	
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	3	$2,250	99,900	3,330	1	4	$3,000	133,200	4,440	1
Additional Low Income										
Weatherization Rebates	7	$1,750	265,235	9,574	1	7	$1,750	265,235	9,574	1
Residential Total	**7,339**	**$94,825**	**12,876,565**	**1,095,530**	**488**	**8,060**	**$100,751**	**13,504,098**	**1,162,544**	**532**

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	500	$1,095	271,728	75,480	30
High Efficiency Interior Lighting	168	$2,025	244,022	38,129	1	168	$2,025	244,022	38,129	1
Exterior Lighting										
High Efficiency Exterior Lighting	30	$563	33,450	6,827	0	30	$563	33,450	6,827	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	5	$5,625	1,327,893	66,395	74	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	2	$900	235,631	15,709	20
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	10	$2,500	55,445	3,696	1	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	$2,250	1,959,039	130,603	2
Agricultural										
Dairy Heat Reclaimer	1	$375	165,951	11,063	5	1	$375	165,951	11,063	5
Livestock Ventilation Fans	5	$300	19,181	1,598	1	5	$300	19,181	1,598	1
Scroll compressor (milk cooling)										
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**	**727**	**$15,633**	**4,312,339**	**349,499**	**132**

II. Demand Response Programs										
Water Heater Load Control	2,680	$4,200			1,340	2,700	$4,200			1,350
Water Heater Storage	130	$18,330			130	130	$18,330			130
Air Conditioning Load Control										
Dual-Fuel Space Heating	949	$374,002			5,694	949	$374,002			5,694
Crop Drying										
Off Peak Pricing	14	$2,769			28	14	$2,769			28
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				15	$4,500			
Energy Audit Services - Residential *	44	$200				44	$200			
IV. Educational & Research Programs										
Member Information and Education	5,243	$40,000				5,243	$43,000			
Peak Alert	3,663	$4,600				3,683	$4,800			
Living with Energy in Iowa	5,243	$25,500				5,243	$26,000			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	5,243	$22,705				5,243	$23,821			
TOTAL	**31,290**	**$607,264**	**17,188,904**	**1,445,029**	**7,812**	**32,051**	**$618,006**	**17,816,437**	**1,512,043**	**7,867**
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. Humboldt 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 Humboldt 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 14. 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.

Humboldt 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 Humboldt 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 Humboldt County Rural Electric Cooperative.

Humboldt County Rural Electric Cooperative offers a robust portfolio of energy efficiency programs to our member-consumers in various classes of electric service. Humboldt County Rural Electric Cooperative offers programs for residential member-consumers in the form of prescriptive rebates on:

- Central air conditioning
- Energy Star appliances
- Air source heat pumps
- Geothermal heat pumps
- Lighting

- Insulation and weatherization
- High-efficiency storage water heaters
- Heat pump water heaters
- Solar water heaters

Humboldt 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 Humboldt County Rural Electric Cooperative, we offer a custom rebate program. Due to only having one large industrial member-consumer in our portfolio prescriptive rebates is 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 to meet both the needs of the cooperative and the member-consumer. Humboldt County Rural Electric Cooperative also offers energy audits for all member-consumers.

In addition to the rebate opportunities, Humboldt County Rural Electric Cooperative will be offering two demand response programs that help us to be both environmentally and fiscally responsible. These programs are water heater land air conditioning load management.

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, Humboldt 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. Humboldt 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. Humboldt County 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. Several times a year we use direct marketing campaigns through Inside Information to target market programs that fit the individual member, instead of wasteful mass mailings. 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), Humboldt 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 Humboldt 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 in 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.

Humboldt County Rural Electric Cooperatives five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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.	51	$9,418	216,363	47,273	15,455	6	1,220	25,455	9,091	1,818
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	33	$55,926	8,764,094	1,221,662	438,205	7	$12,736	1,859,050	464,763	92,953
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	57	$40,755	6,715,478	1,303,824	447,699	7	$5,368	824,708	274,903	54,981
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	28	$4,368	350,582	48,205	17,529	2	$331	25,042	6,260	1,252
Residential Contractor Rebates	Incentive for heat pump installs	75	$18,750				15	$2,847			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	1,325	$3,313	633,452	273,421	86,774	422	$1,249	201,748	138,184	27,637
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	8,000	$30,000	3,824,616	1,702,740	523,920	2,726	$9,895	1,303,238	892,629	178,526
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	281	$2,108	231,082	39,244	14,090		$4			
ENERGY STAR LED lighting	Rebate for LED lighting.	85	$213	113,786	17,105	6,321	6	$20	8,032	2,231	446
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	32	$198	32,039	20,707	7,282	33	$197	33,040	37,546	7,509
LED Holiday Lighting	Rebate for holiday lighting.	335	$838	312,354	76,146	26,030	5	$155	4,662	1,943	389
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	225	$46,250	1,081,001	214,813	72,067	26	$5,797	125,424	41,808	8,362
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	14	$5,250	269,619	65,479	26,962		$2			
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	14	$5,250	323,543	65,479	26,962		$3			
Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	4	$1,500	89,777	18,704	7,481					
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	840	$7,031	2,802,794	915,728	311,422	52	$351	173,506	96,392	19,278
Flow Restrictors - Shower	Incentive for low-flow shower head.	420	$7,035	2,657,340	781,385	265,734	26	$351	164,502	82,251	16,450
Pipe Insulation	Incentive for water pipe insulation.	460	$2,875	819,513	170,435	54,634					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	26	$1,690	63,492	17,538	5,772	24	$1,624	58,608	26,640	5,328
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	56	$1,750	72,479	19,179	6,589	9	$310	11,648	5,295	1,059
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	56	$1,750	88,578	17,188	5,905	13	$448	20,563	6,854	1,371
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	56	$1,750	62,471	12,122	4,165	3	$103	3,347	1,116	223
Appliance Recycling	Incentives for appliance recycling.	165	$11,550	1,043,729	348,652	119,782	40	$2,958	328,348	184,798	36,960
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	5	$6,250	166,500	13,320	4,440		$2			
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	60	$1,875	610,189	192,097	67,799		$11			
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	100	$50,000	3,376,259	353,896	117,965	14	$4,079	499,750	85,564	17,113
Residential Total		**12,803**	**$317,691**	**34,721,130**	**7,956,339**	**2,680,983**	**3,436**	**$50,061**	**5,670,671**	**2,358,267**	**471,653**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	500	$1,250	271,728	181,152	75,480					
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	1,460	$33,044	3,958,307	1,549,488	561,904	3,762	$12,008	3,462,438	4,424,072	884,814
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	25	$156	27,875	17,066	5,689	14	$64	15,610	15,929	3,186
Agricultural											
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	5	$1,824	170,070	38,974	14,172					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	30	$1,824	127,446	29,206	10,620					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	13	$819	123,983	22,253	10,332					
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	15	$60	10,057	7,542	2,514					
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	15	$480	30,137	9,041	3,014					
Hog Farrowing - Double Crate Heating Pads(<=170W)	Rebate for double crate heating pads.	15	$945	60,273	18,082	6,027					
Ag, Commercial and Industrial Total		**2,078**	**$40,402**	**4,779,874**	**1,872,805**	**689,753**	**3,776**	**$12,072**	**3,478,048**	**4,440,000**	**888,000**
II. Demand Response Programs											
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	5	$3,125				3	$512			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	10	$6,250				2	$2,904			
Energy Audit Services - Residential *	Energy Audit Services - Residential	82	$24,600				5	$1,745			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.						2	$592			
Domestic Water Heater Enhancement	Domestic Water Heater Enhancement	100	$12,500								
Member Information and Education	Member Information and Education	7,375	$36,506				1,469	$26,293			
Peak Alert	Peak Alert	7,375	$1,844								
Living with Energy in Iowa	Living with Energy in Iowa magazine.	7,375	$38,940				1,469	$3,970			
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	7,375	$24,665				1,469	$5,280			
TOTAL		**44,578**	**$506,523**	**39,501,003**	**9,829,144**	**3,370,736**	**11,631**	**$103,430**	**9,148,719**	**6,798,267**	**1,359,653**
Percentage of 5 year plan goal achieved								**20%**	**23%**		**40%**

* 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**
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
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**
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 prog

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	12	$2,252	50,909	3,636	4
Geothermal Heat Pump	6	$10,125	1,593,472	79,674	9	7	$11,810	1,859,050	92,953	11
Air Source Heat Pump	11	$7,865	1,295,969	86,398	11	12	$8,580	1,413,785	94,252	12
Heat Recovery Ventilators	5	$780	62,604	3,130		6	$936	75,125	3,756	
Residential Contractor Rebates	15	$3,750				15	$3,750			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	300	$750	143,423	19,647	18	250	$625	119,519	16,373	15
Local CFL Rebate Program(s)	1,800	$6,750	860,539	117,882	108	1,600	$6,000	764,923	104,784	96
T8 or better Lighting Fixtures	50	$375	41,687	2,542	1	60	$450	51,881	3,164	1
ENERGY STAR LED lighting	15	$38	20,080	1,116	1	20	$50	26,773	1,487	1
Exterior Lighting										
High Efficiency Exterior Lighting	6	$38	6,007	1,365	0	7	$43	7,009	1,593	0
LED Holiday Lighting	65	$163	60,606	5,051	16	70	$175	65,268	5,439	18
Residential Water Heating (low income included)										
High Efficiency Water Heater	45	$9,375	218,282	14,552	2	45	$9,375	218,282	14,552	2
Heat Pump Water Heater - (Add-On)	2	$750	38,517	3,852	0	3	$1,125	57,776	5,778	1
Heat Pump Water Heater - (Integrated)	2	$750	46,220	3,852	0	3	$1,125	69,331	5,778	1
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0	1	$375	22,444	1,870	0
Flow Restrictors - Faucet	160	$1,339	533,866	59,318	3	170	$1,423	567,232	63,026	3
Flow Restrictors - Shower	80	$1,340	506,160	50,616	4	85	$1,424	537,795	53,780	4
Pipe Insulation	80	$500	142,524	9,502	2	85	$531	151,432	10,095	2
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	6	$390	14,652	1,332	0	5	$325	12,210	1,110	0
ENERGY STAR Qualified Dishwasher	11	$344	14,237	1,294	1	11	$344	14,237	1,294	1
ENERGY STAR Qualified Refrigerator	11	$344	17,399	1,160	0	11	$344	17,399	1,160	0
ENERGY STAR Qualified Freezer	11	$344	12,271	818	0	11	$344	12,271	818	0
Appliance Recycling	30	$2,269	205,018	23,529	6	33	$2,269	205,018	23,529	6
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0	1	$1,250	33,300		0
Additional Low Income										
Energy Efficiency Kits	11	$344	111,868	12,430	1	12	$375	122,038	13,560	2
Building Shell - Existing Home Only										
Weatherization Rebates	20	$10,000	675,252	23,593	1	20	$10,000	675,252	23,593	1
Residential Total	**2,756**	**$62,597**	**6,727,306**	**529,268**	**191**	**2,555**	**$65,299**	**7,150,258**	**547,379**	**181**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	110	$275	59,780	16,606	7	120	$300	65,215	18,115	7
High Efficiency Interior Lighting	245	$5,866	688,173	96,664	2	290	$6,594	781,880	111,044	2
Exterior Lighting										
High Efficiency Exterior Lighting	5	$31	5,575	1,138	0	5	$31	5,575	1,138	0
Agricultural										
Livestock Ventilation Fans	1	$285	26,573	2,214	1	1	$399	37,203	3,100	1
Circulating Fans -– BESS Lab Ratings	5	$285	19,913	1,659	1	5	$399	27,879	2,323	1
Efficient Livestock Waterers	1	$63	9,537	795		2	$126	19,074	1,590	
Hog Farrowing - Heat Lamps (<= 175W)	3	$12	2,011	503		3	$12	2,011	503	
Hog Farrowing - Single Crate Heating Pads (<=85W)	3	$96	6,027	603		3	$96	6,027	603	
Hog Farrowing - Double Crate Heating Pads(<=170W)	3	$189	12,055	1,205		3	$189	12,055	1,205	
Ag, Commercial and Industrial Total	**376**	**$7,103**	**829,646**	**121,387**	**9**	**432**	**$8,146**	**956,918**	**139,621**	**11**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$625				1	$625			
Expert Energy Services - C&I	2	$1,250				2	$1,250			
Energy Audit Services - Residential *	15	$4,500				17	$5,100			
IV. Educational & Research Programs										
Model Housing Education										
Domestic Water Heater Enhancement	20	$2,500				20	$2,500			
Member Information and Education	1,475	$7,301				1,475	$7,301			
Peak Alert	1,475	$369				1,475	$369			
Living with Energy in Iowa	1,475	$7,788				1,475	$7,788			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,475	$4,933				1,475	$4,933			
TOTAL	**9,070**	**$98,966**	**7,556,952**	**650,655**	**200**	**8,927**	**$103,311**	**8,107,176**	**687,000**	**192**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	$1,689	38,182	2,727	3	9	$1,689	38,182	2,727	3
Geothermal Heat Pump	7	$11,810	1,859,050	92,953	11	8	$13,496	2,124,629	106,231	12
Air Source Heat Pump	12	$8,580	1,413,785	94,252	12	12	$8,580	1,413,785	94,252	12
Heat Recovery Ventilators	6	$936	75,125	3,756		7	$1,092	87,646	4,382	
Residential Contractor Rebates	15	$3,750				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	225	$563	107,567	14,735	14
Local CFL Rebate Program(s)	1,400	$5,250	669,308	91,686	84	1,200	$4,500	573,692	78,588	72
T8 or better Lighting Fixtures	65	$488	52,337	3,191	1	65	$488	52,337	3,191	1
ENERGY STAR LED lighting	20	$50	26,773	1,487	1	20	$50	26,773	1,487	1
Exterior Lighting										
High Efficiency Exterior Lighting	7	$43	7,009	1,593	0	7	$43	7,009	1,593	0
LED Holiday Lighting	70	$175	65,268	5,439	18	70	$175	65,268	5,439	18
Residential Water Heating (low income included)										
High Efficiency Water Heater	45	$9,375	218,282	14,552	2	45	$9,375	218,282	14,552	2
Heat Pump Water Heater - (Add-On)	4	$1,500	77,034	7,703	1	4	$1,500	77,034	7,703	1
Heat Pump Water Heater - (Integrated)	4	$1,500	92,441	7,703	1	4	$1,500	92,441	7,703	1
Solar Water Heaters (w/ Electric auxiliary tank)	1	$375	22,444	1,870	0	1	$375	22,444	1,870	0
Flow Restrictors - Faucet	170	$1,423	567,232	63,026	3	180	$1,507	600,599	66,733	4
Flow Restrictors - Shower	85	$1,424	537,795	53,780	4	90	$1,508	569,430	56,943	5
Pipe Insulation	85	$531	151,432	10,095	2	90	$563	160,340	10,689	2
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$325	12,210	1,110	0	5	$325	12,210	1,110	0
ENERGY STAR Qualified Dishwasher	12	$375	15,531	1,412	1	12	$375	15,531	1,412	1
ENERGY STAR Qualified Refrigerator	12	$375	18,981	1,265	0	12	$375	18,981	1,265	0
ENERGY STAR Qualified Freezer	12	$375	13,387	892	0	12	$375	13,387	892	0
Appliance Recycling	36	$2,475	223,656	25,668	7	36	$2,475	223,656	25,668	7
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,250	33,300	1,110	0	1	$1,250	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits	13	$406	132,208	14,690	2	14	$438	142,377	15,820	2
Building Shell - Existing Home Only										
Weatherization Rebates	20	$10,000	675,252	23,593	1	20	$10,000	675,252	23,593	1
Residential Total	**2,366**	**$65,105**	**7,117,539**	**541,928**	**169**	**2,164**	**$66,364**	**7,372,150**	**549,692**	**158**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	130	$325	70,649	19,625	8	140	$350	76,084	21,134	8
High Efficiency Interior Lighting	330	$7,284	874,717	125,275	2	375	$8,086	992,581	141,364	3
Exterior Lighting										
High Efficiency Exterior Lighting	5	$31	5,575	1,138	0	5	$31	5,575	1,138	0
Agricultural										
Livestock Ventilation Fans	1	$399	37,203	3,100	1	1	$456	42,517	3,543	1
Circulating Fans -– BESS Lab Ratings	7	$399	27,879	2,323	1	8	$456	31,861	2,655	1
Efficient Livestock Waterers	4	$252	38,148	3,179		5	$315	47,686	3,974	
Hog Farrowing - Heat Lamps (<= 175W)	3	$12	2,011	503		3	$12	2,011	503	
Hog Farrowing - Single Crate Heating Pads (<=85W)	3	$96	6,027	603		3	$96	6,027	603	
Hog Farrowing - Double Crate Heating Pads(<=170W)	3	$189	12,055	1,205		3	$189	12,055	1,205	
Ag, Commercial and Industrial Total	**486**	**$8,987**	**1,074,264**	**156,951**	**12**	**543**	**$9,992**	**1,216,397**	**176,119**	**13**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$625				1	$625			
Expert Energy Services - C&I	2	$1,250				2	$1,250			
Energy Audit Services - Residential *	17	$5,100				18	$5,400			
IV. Educational & Research Programs										
Model Housing Education										
Domestic Water Heater Enhancement	20	$2,500				20	$2,500			
Member Information and Education	1,475	$7,301				1,475	$7,301			
Peak Alert	1,475	$369				1,475	$369			
Living with Energy in Iowa	1,475	$7,788				1,475	$7,788			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,475	$4,933				1,475	$4,933			
TOTAL	**8,792**	**$103,958**	**8,191,803**	**698,878**	**181**	**8,648**	**$106,522**	**8,588,547**	**725,811**	**171**
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 14. 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.

Iowa Lakes Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	40	7,432	190,940	68,193	13,639
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	39	$66,258	10,357,565	2,589,391	517,878
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	73	$56,680	8,600,524	2,866,841	573,368
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	40	$6,260	500,832	75,125	25,042	2	$321	25,042	6,260	1,252
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	7,411	$13,363	3,543,029	2,426,732	485,346
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	7,981	$29,929	3,815,533	1,399,259	522,676	16,228	$47,055	7,758,234	5,313,859	1,062,772
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.						102	$113	70,559	21,512	4,302
ENERGY STAR LED lighting	Rebate for LED lighting.	664	$2,490	888,870	118,025	49,382		$5			
Exterior Lighting											
LED Holiday Lighting	Rebate for holiday lighting.	1,360	$3,400	1,268,064	296,037	105,672	1,070	$4,303	997,668	415,695	83,139
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	189	$56,612	952,164	317,388	63,478
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	65	$24,375	1,251,803	325,469	125,180		$8			
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.							$8			
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	2,306	$19,550	7,694,338	2,558,106	854,926	357	$1,773	1,191,188	661,771	132,354
Flow Restrictors - Shower	Incentive for low-flow shower head.	1,249	$20,669	7,902,423	2,365,665	790,242	184	$1,802	1,164,168	582,084	116,417
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	180	$14,588	454,334	206,516	41,303
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	536	$16,751	693,723	168,254	63,066	90	$4,765	116,483	52,947	10,589
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	424	$13,254	670,662	119,264	44,711	113	$6,025	178,738	59,579	11,916
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	629	$19,660	701,681	124,793	46,779	18	$993	20,080	6,693	1,339
Appliance Recycling	Incentives for appliance recycling.	1,011	$55,861	8,852,575	2,950,744	985,321	110	$7,103	940,958	527,861	105,572
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		$10			
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	251	$12,620	2,552,625	803,416	283,625	65	$2,237	661,038	367,244	73,449
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	903	$330,236	29,123,986	2,620,813	1,025,934	33	$12,675	1,044,133	175,658	35,132
Residential Total		**41,290**	**$1,485,064**	**181,933,415**	**36,238,284**	**12,630,566**	**26,304**	**$304,127**	**38,266,843**	**16,666,223**	**3,333,245**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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					
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	1,721	$20,145	8,318,415	5,560,179	1,112,036
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					
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					
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	1	$50	9,537	3,974	795
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program							19	$13,122	11,514,255	3,838,085	767,617
Ag, Commercial and Industrial Total		**3,291**	**$126,088**	**25,535,394**	**6,533,160**	**2,182,038**	**1,741**	**$33,317**	**19,842,208**	**9,402,238**	**1,880,448**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	3,711	$367,367				915	$69,195			
Air Conditioning Load Control	Load control for air conditioning	2,441	$169,430				422	$31,913			
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								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	20	$6,000					$64,600			
Energy Audit Services - Residential *	Energy Audit Services - Residential	110	$11,000				6	$100			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.							$3,597			
Member Information and Education	Member Information and Education	47,270	$43,800				9,462	$62,780			
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				9,462	$45,754			
TOTAL		**154,514**	**$2,668,102**	**207,468,810**	**42,771,445**	**14,812,604**	**48,923**	**$661,590**	**58,109,051**	**26,068,460**	**5,213,692**
Percentage of 5 year plan goal achieved								**25%**	**28%**		**35%**

* 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 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
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			
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 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
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**

	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**

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.

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	29	$4,864	113,349	8,096	9
ENERGY STAR Qualified Room Air Conditioner	2	$68	1,578	175	0	3	$83	2,368	263	0
Geothermal Heat Pump	32	$56,727	8,498,515	424,926	49	34	$61,621	9,029,672	451,484	52
Air Source Heat Pump	90	$58,121	10,603,386	706,892	92	91	$58,884	10,721,201	714,747	93
Heat Recovery Ventilators	8	$1,252	100,166	5,008		8	$1,252	100,166	5,008	
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	4,302	$9,469	2,056,687	281,738	258
Local CFL Rebate Program(s)	1,339	$5,021	640,145	87,691	80	1,594	$5,978	762,055	104,391	96
T8 or better Lighting Fixtures										
ENERGY STAR LED lighting	92	$345	123,157	6,842	4	133	$499	178,042	9,891	5
Exterior Lighting										
LED Holiday Lighting	245	$613	228,438	19,037	61	272	$680	253,613	21,134	68
Residential Water Heating (low income included)										
High Efficiency Water Heater	219	$43,952	1,020,678	68,045	9	219	$43,994	1,020,678	68,045	9
Heat Pump Water Heater - (Add-On)	10	$3,750	192,585	19,259	2	13	$4,875	250,361	25,036	3
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	460	$3,900	1,534,864	170,540	9	461	$3,908	1,538,200	170,911	9
Flow Restrictors - Shower	249	$4,120	1,575,423	157,542	12	250	$4,137	1,581,750	158,175	13
Tank Insulation	28	$217	47,863	4,786	0	28	$217	47,863	4,786	0
Pipe Insulation	28	$217	49,883	3,326	1	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	29	$1,733	70,818	6,438	2
ENERGY STAR Qualified Dishwasher	89	$2,778	115,189	10,472	8	107	$3,348	138,486	12,590	10
ENERGY STAR Qualified Refrigerator	70	$2,191	110,723	7,382	1	85	$2,662	134,449	8,963	1
ENERGY STAR Qualified Freezer	105	$3,283	117,133	7,809	1	126	$3,941	140,559	9,371	1
Appliance Recycling	200	$10,959	1,751,980	195,005	33	202	$11,183	1,769,852	196,991	34
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	3	$3,750	99,900	3,330	1	4	$5,000	133,200	4,440	1
Additional Low Income										
Energy Efficiency Kits	46	$2,345	467,812	51,979	6	51	$2,558	518,661	57,629	7
Building Shell - Existing Home Only										
Weatherization Rebates	140	$51,380	4,547,065	160,075	9	180	$66,082	5,801,987	204,426	11
Residential Total	**7,084**	**$268,956**	**33,703,862**	**2,357,518**	**603**	**8,249**	**$297,183**	**36,413,900**	**2,527,880**	**682**

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	219	$487	119,017	33,060	13
High Efficiency Interior Lighting	270	$4,199	565,386	88,283	1	302	$3,679	548,726	89,546	1
Exterior Lighting										
High Efficiency Exterior Lighting	20	$50	23,550	9,812	0	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	1	$617	26,174	1,745	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	12	$2,899	66,533	4,436	1	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	30	$11,676	320,679	21,379	3
Variable Speed Drive Motor Incentive	10	$3,029	3,728,934	248,596	22	10	$3,029	3,728,934	248,596	22
Agricultural										
Livestock Ventilation Fans	10	$600	63,936	5,328	2	10	$600	63,936	5,328	2
Circulating Fans --- BESS Lab Ratings	10	$600	47,952	3,996	1	10	$600	47,952	3,996	1
Efficient Livestock Waterers	5	$313	47,686	3,974		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**	**619**	**$23,950**	**4,993,186**	**421,871**	**43**

II. Demand Response Programs										
Water Heater Load Control	659	$71,271			330	681	$73,409			341
Air Conditioning Load Control	465	$32,870			326	488	$33,856			342
Space Heating Load Control (Interruptible)	581	$42,295			2,615	601	$43,564			2,705
Dual-Fuel Space Heating	68	$5,297			408	68	$5,456			408
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	6	$1,200				6	$1,200			
Expert Energy Services - C&I	4	$1,200				4	$1,200			
Energy Audit Services - Residential *	21	$2,100				22	$2,200			
IV. Educational & Research Programs										
Model Housing Education										
Member Information and Education	9,454	$8,760				9,454	$8,760			
Peak Alert	9,454	$150				9,454	$150			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,145	$41,458				1,147	$41,458			
TOTAL	**29,508**	**$501,221**	**38,719,656**	**2,775,824**	**4,322**	**30,793**	**$532,386**	**41,407,086**	**2,949,751**	**4,519**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	36	$6,327	142,797	10,200	11
ENERGY STAR Qualified Room Air Conditioner	3	$97	2,368	263	0	4	$112	3,157	351	0
Geothermal Heat Pump	35	$64,364	9,295,251	464,763	54	36	$64,288	9,560,830	478,041	55
Air Source Heat Pump	94	$60,826	11,074,648	738,310	96	94	$60,969	11,074,648	738,310	96
Heat Recovery Ventilators	8	$1,252	100,166	5,008		8	$1,252	100,166	5,008	
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	5,773	$12,705	2,759,939	378,074	346
Local CFL Rebate Program(s)	1,856	$6,960	887,311	121,549	111	2,111	$7,916	1,009,221	138,249	127
T8 or better Lighting Fixtures										
ENERGY STAR LED lighting	173	$649	231,588	12,866	7	214	$803	286,473	15,915	9
Exterior Lighting										
LED Holiday Lighting	299	$748	278,788	23,232	75	326	$815	303,962	25,330	82
Residential Water Heating (low income included)										
High Efficiency Water Heater	223	$44,389	1,038,694	69,246	9	223	$44,432	1,038,694	69,246	9
Heat Pump Water Heater - (Add-On)	16	$6,000	308,136	30,814	3	18	$6,750	346,653	34,665	4
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	464	$3,933	1,548,210	172,023	9	464	$3,933	1,548,210	172,023	9
Flow Restrictors - Shower	251	$4,154	1,588,077	158,808	13	251	$4,154	1,588,077	158,808	13
Tank Insulation	28	$217	47,863	4,786	0	28	$217	47,863	4,786	0
Pipe Insulation	28	$217	49,883	3,326	1	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	35	$2,443	85,470	7,770	3
ENERGY STAR Qualified Dishwasher	125	$3,907	161,783	14,708	11	143	$4,467	185,079	16,825	13
ENERGY STAR Qualified Refrigerator	99	$3,090	156,593	10,440	1	113	$3,529	178,738	11,916	1
ENERGY STAR Qualified Freezer	146	$4,560	162,870	10,858	1	168	$5,250	187,412	12,494	2
Appliance Recycling	202	$11,187	1,769,852	196,991	34	204	$11,312	1,787,724	198,976	34
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	5	$6,250	166,500	5,550	1	5	$6,250	166,500	5,550	1
Additional Low Income										
Energy Efficiency Kits	56	$2,771	569,510	63,279	7	57	$2,814	579,680	64,409	7
Building Shell - Existing Home Only										
Weatherization Rebates	222	$81,017	7,146,285	251,757	13	261	$95,279	8,412,357	296,165	16
Residential Total	**9,440**	**$325,408**	**39,203,054**	**2,705,171**	**763**	**10,600**	**$346,233**	**41,443,533**	**2,846,438**	**838**

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	260	$569	141,299	39,250	16
High Efficiency Interior Lighting	342	$3,760	586,501	97,716	1	389	$3,906	639,199	107,437	2
Exterior Lighting										
High Efficiency Exterior Lighting	20	$50	23,550	9,812	0	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	1	$617	26,174	1,745	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	12	$2,899	66,533	4,436	1	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	30	$11,676	320,679	21,379	3
Variable Speed Drive Motor Incentive	10	$3,029	3,728,934	248,596	22	10	$3,029	3,728,934	248,596	22
Agricultural										
Livestock Ventilation Fans	10	$600	63,936	5,328	2	10	$96	63,936	5,328	2
Circulating Fans --- BESS Lab Ratings	10	$600	47,952	3,996	1	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	**780**	**$25,554**	**5,113,537**	**449,024**	**50**	**742**	**$23,442**	**5,058,256**	**441,978**	**45**

II. Demand Response Programs										
Water Heater Load Control	705	$75,611			353	729	$77,880			365
Air Conditioning Load Control	511	$34,872			358	535	$35,918			375
Space Heating Load Control (Interruptible)	621	$44,871			2,795	642	$46,217			2,889
Dual-Fuel Space Heating	68	$5,619			408	68	$5,788			408
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	6	$1,200				6	$1,200			
Expert Energy Services - C&I	4	$1,200				4	$1,200			
Energy Audit Services - Residential *	23	$2,300				24	$2,400			
IV. Educational & Research Programs										
Model Housing Education										
Member Information and Education	9,454	$8,760				9,454	$8,760			
Peak Alert	9,454	$150				9,454	$150			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,149	$41,458				1,151	$41,458			
TOTAL	**32,215**	**$567,004**	**44,316,591**	**3,154,195**	**4,725**	**33,409**	**$590,646**	**46,501,788**	**3,288,416**	**4,920**
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 14. 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 (3 members from 1,000 kW to 2,500 kW and 18 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. 154 accounts with propane water heaters and 451 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 and has caused a slowing of program activity in 2011 (the short term) as the area continues its economic recovery.

Linn County Rural Electric Cooperative’s five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs and member participation.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	350	53,726	1,672,794	597,426	119,485
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	12	$591	10,593	5,885	1,177
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	143	$299,140	37,707,448	9,426,862	1,885,372
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	19	$18,345	2,222,561	740,854	148,171
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	331	$53,691	4,114,889	589,262	205,744	21	$3,957	261,065	65,266	13,053
Residential Contractor Rebates	Incentive for heat pump installs	879	$175,800				166	$43,838			
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	10,923	$18,989	5,800,162	3,972,714	794,543
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	21,340	$55,473	10,129,553	4,318,042	1,387,610	1,863	$12,535	884,319	605,698	121,140
ENERGY STAR CFL Fixtures	Rebate for compact florescent light fixtures.	2,718	$28,205	5,931,105	831,184	296,555					
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	1,420	$18,552	917,386	158,678	55,938					
ENERGY STAR LED lighting	Rebate for LED lighting.	524	$20,395	696,465	109,506	38,693					
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	400	$7,780	1,198,203	183,059	66,567					
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	196	$7,650	233,811	233,811	53,139
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	346	$79,588	1,194,103	398,034	79,607
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	11	$6,013	252,403	105,168	21,034
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
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	454	$38,989	954,007	433,640	86,728
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	595	$19,313	764,604	205,024	69,509	173	$13,623	222,313	101,052	20,210
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	2,400	$77,903	3,769,182	741,272	251,279	687	$40,559	1,078,928	359,643	71,929
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	790	$25,643	2,225,404	546,961	185,450	124	$6,669	349,304	145,543	29,109
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	790	$25,643	875,012	172,049	58,334	47	$2,547	52,058	17,353	3,471
Appliance Recycling	Incentives for appliance recycling.	2,330	$178,176	25,006,142	8,752,746	2,778,460	242	$19,185	2,191,803	1,217,668	243,534
Efficient Television	Rebate for efficient television.	591	$30,676	1,172,414	279,382	97,701	91	$6,757	180,524	75,218	15,044
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	12	$7,095	396,756	66,126	13,225
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					
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	3	$2,310	233,689	38,948	7,790
Residential Total		**61,025**	**$3,827,637**	**341,551,496**	**62,948,759**	**21,647,969**	**15,892**	**$686,459**	**56,063,373**	**18,685,268**	**3,743,430**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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					
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	3,354	$91,089	4,649,496	3,632,419	726,484
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	12	$458	17,656	5,885	1,177
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	163	$62,864	6,924,344	1,731,086	346,217
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					
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	514	$120,057	19,804,120	2,831,912	990,206	11	$2,692	423,824	105,956	21,191
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	655	$34,025								
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		$270			
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	12	$37,454	11,827,570	3,942,523	788,505
Agricultural											
Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	5	$3,896	730,279	146,056	48,685		$440			
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	5	$5,195	823,847	164,769	54,923		$440			
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	162	$19,238	854,850	200,520	71,238		$440			
Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	22	$713	59,646	13,782	4,970		$440			
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	99	$4,704	391,479	91,279	32,623		$440			
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	5	$1,624	274,836	54,967	18,322		$440			
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	183	$11,872	1,732,872	411,123	144,406	3	$683	28,408	11,837	2,367
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		$440			
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	325	$1,265	216,342	152,272	54,086		$440			
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		0	$-	-	-			$0			
Custom Rebate Program		100	$587,357	47,846,327	10,853,445	3,617,815		$8,870			
Ag, Commercial and Industrial Total		**17,117**	**$1,583,329**	**167,856,499**	**37,780,915**	**12,948,491**	**3,895**	**$218,994**	**25,092,711**	**9,754,517**	**1,950,903**
II. Demand Response Programs											
Residential Time-of-Day Price	Residential time of day price.	1,496	$57,000				258	$3,970			
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price	23	$4,500				1	$308			
Industrial Interruptible Price	Industrial Interruptible Price	61	$1,380,892				7	$167,694			
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								
Energy Audit Services - Residential *	Energy Audit Services - Residential	2,500	$225,000				182	$16,751			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	10	$62,500				2	$10,250			
Member Information and Education	Member Information and Education	130,000	$275,000				20,435	$67,632			
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				20,435	$42,791			
TOTAL		**472,532**	**$7,696,258**	**509,407,996**	**100,729,675**	**34,596,461**	**61,107**	**$1,214,849**	**81,156,084**	**28,439,785**	**5,694,334**
Percentage of 5 year plan goal achieved								**16%**	**16%**		**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				
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 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
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**

	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**
II. Demand Response Programs										
Residential Time-of-Day Price	279	$9,500				258	$3,970			
Commercial and Industrial Time-of-Day Price	2	$550				1	$308			195
Industrial Interruptible Price	9	$230,188			3,179	7	$167,694			
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			
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**	**1,763**
Percentage of 5 year plan goal achieved										

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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	331	$49,675	1,438,344	102,739	99
ENERGY STAR Qualified Room Air Conditioner	100	$3,268	88,278	9,809	9	100	$3,247	88,278	9,809	9
Geothermal Heat Pump	142	$292,353	37,443,759	1,872,188	61	156	$319,091	41,135,398	2,056,770	67
Air Source Heat Pump	23	$21,046	2,690,469	179,365	7	25	$22,727	2,924,422	194,961	8
Heat Recovery Ventilators	62	$10,131	770,765	38,538		68	$11,039	845,355	42,268	
Residential Contractor Rebates	165	$33,000				181	$36,200			
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	3,355	$8,714	1,592,533	218,155	201
Local CFL Rebate Program(s)	4,611	$12,055	2,188,724	299,825	277	4,380	$11,377	2,079,074	284,805	263
ENERGY STAR CFL Fixtures	500	$5,229	1,091,079	54,554	20	600	$6,234	1,309,295	65,465	24
T8 or better Lighting Fixtures	259	$3,412	167,478	10,212	3	290	$3,788	187,143	11,411	3
ENERGY STAR LED lighting	95	$3,725	126,268	7,015	4	107	$4,169	142,217	7,901	4
ENERGY STAR Ceiling Fan	70	$1,373	209,686	11,649	2	80	$1,558	239,641	13,313	2
Exterior Lighting										
High Efficiency Exterior Lighting	140	$3,279	152,430	59,615	2	140	$3,271	152,430	59,615	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	223	$29,346	773,228	51,549	7	228	$29,805	790,421	52,695	7
Heat Pump Water Heater - (Add-On)	10	$3,922	191,214	19,121	2	10	$3,896	191,214	19,121	2
Heat Pump Water Heater - (Integrated)	40	$26,144	917,829	76,486	8	52	$33,766	1,193,178	99,431	11
Solar Water Heaters (w/ Electric auxiliary tank)	10	$4,575	222,845	18,570	2	20	$9,091	445,689	37,141	4
Flow Restrictors - Faucet	158	$6,196	523,440	58,160	3	182	$7,091	602,950	66,994	4
Flow Restrictors - Shower	158	$10,327	992,551	99,255	8	182	$11,818	1,143,319	114,332	9
Tank Insulation	12	$235	20,367	2,037	0	12	$234	20,367	2,037	0
Pipe Insulation	12	$235	21,226	1,415	0	12	$234	21,226	1,415	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	207	$12,993	501,896	45,627	17	212	$13,227	514,019	46,729	17
ENERGY STAR Qualified Dishwasher	116	$3,791	149,066	13,551	10	119	$3,864	152,921	13,902	11
ENERGY STAR Qualified Refrigerator	468	$15,294	734,990	48,999	5	480	$15,584	753,836	50,256	5
ENERGY STAR Qualified Dehumidifier	154	$5,033	433,813	36,151	3	158	$5,130	445,081	37,090	3
ENERGY STAR Qualified Freezer	154	$5,033	170,572	11,371	2	158	$5,130	175,002	11,667	2
Appliance Recycling	600	$45,882	6,439,350	715,483	114	400	$30,588	4,292,900	476,989	76
Efficient Television	110	$5,752	218,216	18,185	4	121	$6,286	240,037	20,003	5
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	86	$56,209	2,843,418	94,781	15	94	$61,039	3,107,922	103,597	17
Advanced Lighting Package	41	$10,719	352,452	17,623	9	55	$14,286	472,801	23,640	12
Additional Low Income										
Energy Efficiency Kits	24	$1,098	243,291	27,032	3	19	$864	192,605	21,401	2
Weatherization Rebates	4	$1,516	87,981	3,115	1	4	$1,506	87,981	3,115	1
Building Shell - Existing Home Only										
Weatherization Rebates	108	$38,155	2,165,158	73,851	11	118	$41,409	2,368,578	80,782	12
Residential Total	**12,715**	**$729,057**	**66,003,591**	**4,304,453**	**918**	**12,449**	**$775,938**	**69,346,177**	**4,349,548**	**883**

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	235	$610	126,803	35,223	14
High Efficiency Interior Lighting	2,077	$39,318	3,068,102	529,125	7	2,337	$44,777	3,479,874	597,196	8
Exterior Lighting										
High Efficiency Exterior Lighting	208	$6,784	279,078	59,689	2	213	$6,909	286,109	61,124	2
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	81	$2,647	119,176	7,945	5	83	$2,695	122,118	8,141	5
Air Cooled Chillers	52	$1,359	160,466	8,023	4	54	$1,403	166,638	8,332	4
Water Cooled Chillers										
Geothermal Heat Pump	120	$52,288	5,110,217	255,511	14	120	$51,948	5,110,217	255,511	14
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	10	$2,614	233,259	15,551	1	11	$2,857	256,585	17,106	1
Heat Recovery Ventilators	96	$22,588	3,698,824	184,941	56	105	$24,545	4,045,589	202,279	61
Commercial Contractor Rebate (GS & AS)	130	$6,797				131	$6,805			
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	12	$1,569	61,497	5,125	1	12	$1,558	61,497	5,125	1
Ag/Commercial & Industrial Insulation										
Building Envelope	6	$8,967	540,454	22,688	2	6	$8,909	540,454	22,688	2
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	11	$1,797	116,745	7,783	1	12	$1,948	127,359	8,491	1
Variable Speed Drive Motor Incentive	22	$34,510	8,145,268	543,018	47	24	$37,403	8,885,747	592,383	52
Agricultural										
Dairy Pre-coolers Incentive	1	$784	146,056	9,737	5	1	$779	146,056	9,737	5
Dairy Heat Reclaimer	1	$1,046	164,769	10,985	5	1	$1,039	164,769	10,985	5
Livestock Ventilation Fans	30	$3,590	158,306	13,192	4	34	$4,042	179,413	14,951	4
Ventilation Thermostat Controller	4	$131	10,845	904	0	5	$162	13,556	1,130	0
Circulating Fans --- BESS Lab Ratings	18	$862	71,178	5,932	2	21	$999	83,041	6,920	2
Scroll compressor (milk cooling)	1	$327	54,967	3,664	0	1	$325	54,967	3,664	0
Efficient Livestock Waterers	34	$2,222	321,954	26,830		38	$2,468	359,831	29,986	
Premium Motors Rebate Program - Dairy Vacuum Pump										
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$523	220,463	12,968	1	1	$519	220,463	12,968	1
Hog Farrowing - Heat Lamps (<= 175W)	60	$235	39,940	9,985		69	$269	45,931	11,483	
Hog Farrowing - Single Crate Heating Pads (<=85W)	30	$980	59,844	5,984		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		1	$65	7,736	472	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	20	$118,229	9,569,265	723,563	72	20	$117,462	9,569,265	723,563	72
Ag, Commercial and Industrial Total	**3,273**	**$310,880**	**32,491,690**	**2,500,635**	**244**	**3,570**	**$321,633**	**34,123,839**	**2,646,439**	**255**

II. Demand Response Programs										
Residential Time-of-Day Price	289	$9,500				389	$19,000			
Commercial and Industrial Time-of-Day Price	3	$650				4	$800			
Industrial Interruptible Price	10	$244,386			3,292	12	$273,334			3,593
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	30	$750				30	$750			
Expert Energy Services - C&I	30	$15,000				30	$15,000			
Energy Audit Services - Residential *	500	$45,000				500	$45,000			
IV. Educational & Research Programs										
Model Housing Education	2	$12,500				2	$12,500			
Member Information and Education	25,500	$55,000				26,000	$55,000			
Living with Energy in Iowa	25,500	$330				26,000	$330			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	25,500	$39,000				26,000	$40,000			
TOTAL	**93,352**	**$1,462,053**	**98,495,281**	**6,805,089**	**4,454**	**94,986**	**$1,559,284**	**103,470,016**	**6,995,987**	**4,731**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	341	$50,513	1,481,485	105,820	102
ENERGY STAR Qualified Room Air Conditioner	100	$3,226	88,278	9,809	9	100	$3,205	88,278	9,809	9
Geothermal Heat Pump	164	$333,290	43,244,905	2,162,245	71	172	$347,308	45,354,413	2,267,721	74
Air Source Heat Pump	26	$23,484	3,041,399	202,760	8	27	$24,231	3,158,376	210,558	8
Heat Recovery Ventilators	71	$11,452	882,650	44,132		74	$11,859	919,945	45,997	
Residential Contractor Rebates	190	$38,000				199	$39,800			
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	2,840	$7,282	1,348,075	184,668	170
Local CFL Rebate Program(s)	4,030	$10,400	1,912,938	262,046	242	3,708	$9,508	1,760,093	241,109	222
ENERGY STAR CFL Fixtures	600	$6,194	1,309,295	65,465	24	618	$6,338	1,348,574	67,429	25
T8 or better Lighting Fixtures	313	$4,072	202,506	12,348	3	323	$4,173	208,832	12,734	3
ENERGY STAR LED lighting	116	$4,490	154,179	8,566	5	120	$4,615	159,496	8,861	5
ENERGY STAR Ceiling Fan	90	$1,742	269,596	14,978	3	100	$1,923	299,551	16,642	3
Exterior Lighting										
High Efficiency Exterior Lighting	140	$3,262	152,430	59,615	2	140	$3,253	152,430	59,615	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	234	$30,387	811,052	54,070	7	240	$30,962	831,683	55,446	7
Heat Pump Water Heater - (Add-On)	10	$3,871	191,214	19,121	2	10	$3,846	191,214	19,121	2
Heat Pump Water Heater - (Integrated)	70	$45,161	1,606,201	133,850	15	94	$60,256	2,156,898	179,741	20
Solar Water Heaters (w/ Electric auxiliary tank)	30	$13,548	668,534	55,711	6	40	$17,949	891,378	74,282	8
Flow Restrictors - Faucet	191	$7,394	632,766	70,307	4	197	$7,577	652,644	72,516	4
Flow Restrictors - Shower	191	$12,323	1,199,856	119,986	10	197	$12,628	1,237,548	123,755	10
Tank Insulation	12	$232	20,367	2,037	0	12	$231	20,367	2,037	0
Pipe Insulation	12	$232	21,226	1,415	0	12	$231	21,226	1,415	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	217	$13,458	526,143	47,831	17	223	$13,731	540,690	49,154	18
ENERGY STAR Qualified Dishwasher	122	$3,935	156,776	14,252	11	125	$4,006	160,631	14,603	11
ENERGY STAR Qualified Refrigerator	492	$15,871	772,682	51,512	5	504	$16,154	791,528	52,769	5
ENERGY STAR Qualified Dehumidifier	162	$5,226	456,349	38,029	3	166	$5,321	467,617	38,968	3
ENERGY STAR Qualified Freezer	162	$5,226	179,433	11,962	2	166	$5,321	183,863	12,258	2
Appliance Recycling	410	$31,353	4,400,222	488,914	78	420	$32,118	4,507,545	500,838	80
Efficient Television	127	$6,555	251,940	20,995	5	133	$6,821	263,843	21,987	5
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	99	$63,871	3,273,237	109,108	18	104	$66,667	3,438,552	114,618	19
Advanced Lighting Package	63	$16,258	541,572	27,079	14	66	$16,923	567,361	28,368	15
Additional Low Income										
Energy Efficiency Kits	10	$452	101,371	11,263	1	5	$224	50,686	5,632	1
Weatherization Rebates	4	$1,497	87,981	3,115	1	4	$1,487	87,981	3,115	1
Building Shell - Existing Home Only										
Weatherization Rebates	125	$43,494	2,498,466	85,262	13	125	$43,215	2,498,466	85,262	13
Residential Total	**12,008**	**$818,308**	**72,589,147**	**4,513,387**	**864**	**11,605**	**$859,675**	**75,841,269**	**4,686,844**	**848**

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	199	$510	107,378	29,827	12
High Efficiency Interior Lighting	2,454	$46,739	3,654,126	627,141	8	2,454	$46,439	3,654,126	627,141	8
Exterior Lighting										
High Efficiency Exterior Lighting	218	$7,032	293,141	62,559	2	223	$7,154	300,172	63,993	2
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	85	$2,742	125,061	8,337	5	86	$2,756	126,532	8,435	5
Air Cooled Chillers	55	$1,419	169,723	8,486	4	56	$1,436	172,809	8,640	4
Water Cooled Chillers										
Geothermal Heat Pump	120	$51,613	5,110,217	255,511	14	120	$51,282	5,110,217	255,511	14
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	12	$3,097	279,911	18,661	1	13	$3,333	303,237	20,216	1
Heat Recovery Ventilators	110	$25,548	4,238,236	211,912	64	116	$26,769	4,469,412	223,471	67
Commercial Contractor Rebate (GS & AS)	132	$6,813				133	$6,821			
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	12	$1,548	61,497	5,125	1	12	$1,538	61,497	5,125	1
Ag/Commercial & Industrial Insulation										
Building Envelope	6	$8,852	540,454	22,688	2	6	$8,795	540,454	22,688	2
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	13	$2,097	137,972	9,198	1	14	$2,244	148,585	9,906	1
Variable Speed Drive Motor Incentive	25	$38,710	9,255,987	617,066	54	26	$40,000	9,626,226	641,748	56
Agricultural										
Dairy Pre-coolers Incentive	1	$774	146,056	9,737	5	1	$769	146,056	9,737	5
Dairy Heat Reclaimer	1	$1,032	164,769	10,985	5	1	$1,026	164,769	10,985	5
Livestock Ventilation Fans	36	$4,252	189,967	15,831	5	37	$4,342	195,244	16,270	5
Ventilation Thermostat Controller	5	$161	13,556	1,130	0	5	$160	13,556	1,130	0
Circulating Fans --- BESS Lab Ratings	22	$1,040	86,995	7,250	2	23	$1,080	90,950	7,579	2
Scroll compressor (milk cooling)	1	$323	54,967	3,664	0	1	$321	54,967	3,664	0
Efficient Livestock Waterers	40	$2,581	378,770	31,564		41	$2,628	388,239	32,353	
Premium Motors Rebate Program - Dairy Vacuum Pump										
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$516	220,463	12,968	1	1	$513	220,463	12,968	1
Hog Farrowing - Heat Lamps (<= 175W)	72	$279	47,928	11,982		74	$285	49,259	12,315	
Hog Farrowing - Single Crate Heating Pads (<=85W)	37	$1,194	73,808	7,381		38	$1,218	75,802	7,580	
Hog Farrowing - Double Crate Heating Pads(<=170W)										
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472		1	$64	7,736	472	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	20	$116,704	9,569,265	723,563	72	20	$115,956	9,569,265	723,563	72
Ag, Commercial and Industrial Total	**3,695**	**$325,687**	**34,937,157**	**2,715,585**	**260**	**3,701**	**$327,439**	**35,596,954**	**2,755,319**	**265**
II. Demand Response Programs										
Residential Time-of-Day Price	539	$19,000								
Commercial and Industrial Time-of-Day Price	6	$1,100				8	$1,400			
Industrial Interruptible Price	14	$302,106			3,874	16	$330,878			4,139
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	30	$750				30	$750			
Expert Energy Services - C&I	30	$15,000				30	$15,000			
Energy Audit Services - Residential *	500	$45,000				500	$45,000			
IV. Educational & Research Programs										
Model Housing Education	2	$12,500				2	$12,500			
Member Information and Education	26,500	$55,000				27,000	$55,000			
Living with Energy in Iowa	26,500	$330				27,000	$330			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	26,500	$41,000				27,000	$42,000			
TOTAL	**96,324**	**$1,635,781**	**107,526,304**	**7,228,972**	**4,999**	**96,892**	**$1,689,972**	**111,438,223**	**7,442,163**	**5,252**
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 14. 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.

Lyon Rural Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	1	221	4,646	1,659	332
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	24	$750	15,584	4,618	1,732	1	$30	649	361	72
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	28	$57,918	7,436,201	1,859,050	371,810
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	7	$4,673	824,708	274,903	54,981
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	234	$418	111,870	76,623	15,325
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	7,500	$18,750	3,585,578	1,473,525	491,175	1,500	$3,080	717,116	491,175	98,235
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	38	$8,203	210,689	70,230	14,046
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	26	$1,428	63,492	28,860	5,772
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	85	$2,656	110,012	26,121	10,001	14	$370	18,120	8,236	1,647
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	82	$2,563	129,704	22,461	8,647	19	$539	30,053	10,018	2,004
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	123	$3,844	137,213	23,650	9,148	6	$221	6,693	2,231	446
Appliance Recycling	Incentives for appliance recycling.	164	$12,113	1,473,006	488,600	163,667	29	$1,943	237,026	133,383	26,677
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	150	$3,750	1,525,473	508,491	169,497	200	$4,721	2,033,964	1,129,980	225,996
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	19	$9,252	854,078	70,378	28,469	9	$4,100	407,192	67,865	13,573
Residential Total		**19,227**	**$495,974**	**51,014,518**	**11,074,639**	**3,753,743**	**2,112**	**$87,866**	**12,102,420**	**4,154,575**	**830,915**
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
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					
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	25	$61,250	6,510,150	976,523	325,508	1	$2,288	260,406	65,102	13,020
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					
Ag/Commercial & Industrial Water Heating											
High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.						2	$400	11,089	3,696	739
Ag/Commercial & Industrial Insulation											
Building Envelope	Rebates for insulation.						1	$500	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					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		50	$50,000	2,452,545	735,764	245,255	1	$11,600	49,051	24,525	4,905
Ag, Commercial and Industrial Total		**1,768**	**$133,833**	**13,892,859**	**3,455,580**	**1,152,672**	**22**	**$14,818**	**581,539**	**160,225**	**32,045**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	4,650	$418,500				989	$43,204			
Crop Drying											
Load Control	Crop drying load control.	60	$5,400								
Irrigation											
Load Control	Irrigation load control.	5	$450								
III. Energy Audit & Technical Support Programs											
Energy Audit Services - Residential *	Energy Audit Services - Residential	320	$100,000								
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	7,925	$8,040				1,587	$5,907			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	7,925	$949				1,587	$4,390			
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				1,587	$6,412			
TOTAL		**49,805**	**$1,189,570**	**64,907,377**	**14,530,218**	**4,906,414**	**7,884**	**$162,597**	**12,683,959**	**4,314,799**	**862,960**
Percentage of 5 year plan goal achieved								**14%**	**20%**		**18%**

* 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**
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
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**
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	5	$875	16,395	1,171	2
ENERGY STAR Qualified Room Air Conditioner	4	$125	2,597	289	0	5	$156	3,247	361	0
Geothermal Heat Pump	22	$53,900	5,842,729	292,136	34	22	$53,900	5,842,729	292,136	34
Air Source Heat Pump	9	$6,750	1,060,339	70,689	9	10	$7,500	1,178,154	78,544	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	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	$3,750	717,116	98,235	90
Exterior Lighting										
High Efficiency Exterior Lighting	50	$12,500	111,416	20,258	5	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	29	$7,250	160,789	10,719	1
Flow Restrictors - Faucet	42	$788	140,140	15,571	1	42	$788	140,140	15,571	1
Flow Restrictors - Shower	42	$788	265,734	26,573	2	42	$788	265,734	26,573	2
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	2	$125	4,884	444	0	3	$188	7,326	666	0
ENERGY STAR Qualified Dishwasher	13	$406	16,825	1,530	1	17	$531	22,002	2,000	2
ENERGY STAR Qualified Refrigerator	13	$406	20,563	1,371	0	16	$500	25,308	1,687	0
ENERGY STAR Qualified Freezer	19	$594	21,195	1,413	0	24	$750	26,773	1,785	0
Appliance Recycling	33	$2,219	296,763	32,974	5	33	$2,219	296,763	32,974	5
Additional Low Income										
Energy Efficiency Kits	30	$750	305,095	33,899	4	30	$750	305,095	33,899	4
Building Shell - Existing Home Only										
Weatherization Rebates	3	$1,440	135,065	4,502	0	3	$1,440	135,065	4,502	0
Residential Total	**3,689**	**$96,545**	**9,998,032**	**733,540**	**268**	**3,831**	**$98,883**	**10,210,205**	**752,062**	**277**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	318	$795	238,872	64,560	19	320	$800	240,374	64,966	19
Exterior Lighting										
High Efficiency Exterior Lighting	3	$113	6,119	1,249	0	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	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	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	2	$150	21,379	1,425	0
Variable Speed Drive Motor Incentive	1	$500	326,423	21,762	2	1	$500	326,423	21,762	2
Agricultural										
Livestock Ventilation Fans	8	$700	37,189	3,099	1	8	$700	37,189	3,099	1
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	10	$10,000	490,509	49,051	10	10	$10,000	490,509	49,051	10
Ag, Commercial and Industrial Total	**350**	**$26,758**	**2,775,868**	**229,804**	**43**	**352**	**$26,763**	**2,777,370**	**230,210**	**43**
II. Demand Response Programs										
Water Heater Load Control	930	$83,700			465	930	$83,700			465
Crop Drying										
Load Control	12	$1,080			24	12	$1,080			24
Irrigation										
Load Control	1	$90			7	1	$90			7
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	64	$20,000				64	$20,000			
IV. Educational & Research Programs										
Member Information and Education	1,585	$1,608				1,585	$1,608			
Living with Energy in Iowa	1,585	$190				1,585	$190			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,585	$5,285				1,585	$5,285			
TOTAL	**9,801**	**$235,255**	**12,773,899**	**963,344**	**806**	**9,945**	**$237,598**	**12,987,575**	**982,271**	**816**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	8	$1,438	26,915	1,923	3
ENERGY STAR Qualified Room Air Conditioner	6	$188	3,896	433	1	6	$188	3,896	433	1
Geothermal Heat Pump	22	$53,900	5,842,729	292,136	34	23	$56,350	6,108,308	305,415	35
Air Source Heat Pump	10	$7,500	1,178,154	78,544	10	10	$7,500	1,178,154	78,544	10
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	2,246	$5,615	1,073,761	147,091	135
Local CFL Rebate Program(s)	1,500	$3,750	717,116	98,235	90	1,500	$3,750	717,116	98,235	90
Exterior Lighting										
High Efficiency Exterior Lighting	50	$12,500	111,416	20,258	5	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	31	$7,750	171,878	11,459	2
Flow Restrictors - Faucet	42	$788	140,140	15,571	1	42	$788	140,140	15,571	1
Flow Restrictors - Shower	42	$788	265,734	26,573	2	42	$788	265,734	26,573	2
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	4	$250	9,768	888	0	4	$250	9,768	888	0
ENERGY STAR Qualified Dishwasher	20	$625	25,885	2,353	2	24	$750	31,062	2,824	2
ENERGY STAR Qualified Refrigerator	20	$625	31,635	2,109	0	23	$719	36,380	2,425	0
ENERGY STAR Qualified Freezer	30	$938	33,467	2,231	0	35	$1,094	39,044	2,603	0
Appliance Recycling	33	$2,219	296,763	32,974	5	33	$3,306	296,763	32,974	5
Additional Low Income										
Energy Efficiency Kits	30	$750	305,095	33,899	4	30	$750	305,095	33,899	4
Building Shell - Existing Home Only										
Weatherization Rebates	5	$2,467	224,442	7,481	1	6	$2,879	270,130	9,004	1
Residential Total	**3,973**	**$101,218**	**10,388,571**	**765,313**	**286**	**4,113**	**$106,413**	**10,785,559**	**790,118**	**296**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	322	$805	241,877	65,372	19	326	$815	244,882	66,184	20
Exterior Lighting										
High Efficiency Exterior Lighting	3	$113	6,119	1,249	0	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	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	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	2	$150	21,379	1,425	0
Variable Speed Drive Motor Incentive	1	$500	326,423	21,762	2	1	$500	326,423	21,762	2
Agricultural										
Livestock Ventilation Fans	8	$700	37,189	3,099	1	8	$700	37,189	3,099	1
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	10	$10,000	490,509	49,051	10	10	$10,000	490,509	49,051	10
Ag, Commercial and Industrial Total	**354**	**$26,768**	**2,778,872**	**230,616**	**43**	**358**	**$26,778**	**2,781,877**	**231,428**	**43**
II. Demand Response Programs										
Water Heater Load Control	930	$83,700			465	930	$83,700			465
Crop Drying										
Load Control	12	$1,080			24	12	$1,080			24
Irrigation										
Load Control	1	$90			7	1	$90			7
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	64	$20,000				64	$20,000			
IV. Educational & Research Programs										
Member Information and Education	1,585	$1,608				1,585	$1,608			
Living with Energy in Iowa	1,585	$190				1,585	$190			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	1,585	$5,285				1,585	$5,285			
TOTAL	**10,089**	**$239,938**	**13,167,443**	**995,928**	**825**	**10,233**	**$245,143**	**13,567,436**	**1,021,546**	**835**
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 14. 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.

Midland Power Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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.	234	$33,005	902,956	191,141	64,497	31	5,177	163,783	58,494	11,699
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					
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	213	$428,418	56,339,533	8,027,611	2,816,977	54	$91,209	14,239,176	3,559,794	711,959
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	194	$154,933	22,745,505	4,392,852	1,516,367	30	$20,446	3,509,307	1,169,769	233,954
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	10	$1,592	124,762	18,714	6,238	2	$289	24,863	6,216	1,243
Residential Contractor Rebates	Incentive for heat pump installs	263	$52,600				84	$18,754			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	6,014	$13,790	2,863,348	1,220,743	392,239	5,751	$12,840	2,729,853	1,869,762	373,952
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	49,753	$127,722	23,671,593	10,090,820	3,242,684	1,551	$3,463	736,220	504,260	100,852
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.						56	$1,000	54,079	16,487	3,297
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	384	$8,078	1,154,849	181,950	64,158					
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	270	$10,322	269,367	179,125	61,220	29	$1,166	28,829	32,760	6,552
LED Holiday Lighting	Rebate for holiday lighting.						255	$569	236,070	98,362	19,672
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	885	$141,929	3,975,138	783,060	265,009	121	$19,755	558,649	186,216	37,243
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	20	$7,646	383,799	115,140	38,380					
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	56	$30,620	1,289,566	264,822	107,464	2	$1,126	45,891	19,121	3,824
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.	270	$10,316	897,692	279,282	99,744	242	$1,367	801,725	445,403	89,081
Flow Restrictors - Shower	Incentive for low-flow shower head.	270	$17,195	1,702,211	476,619	170,221	121	$1,367	760,118	380,059	76,012
Tank Insulation	Incentive for water heater tank insulation.	164	$3,155	279,003	81,149	27,900					
Pipe Insulation	Incentive for water pipe insulation.	166	$3,192	294,343	57,095	19,623					
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	395	$27,507	960,680	259,799	87,335	63	$5,004	136,058	61,844	12,369
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	310	$11,850	399,793	106,690	36,345	17	$506	21,846	9,930	1,986
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	420	$14,771	661,689	130,236	44,113	70	$19,651	109,934	36,645	7,329
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.	150	$4,780	166,737	33,347	11,116	14	$410	15,507	5,169	1,034
Appliance Recycling	Incentives for appliance recycling.	555	$65,855	4,915,234	1,621,203	551,311	69	$4,192	563,883	316,986	63,397
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.	30	$19,116	995,445	99,545	33,182	6	$3,349	198,378	33,063	6,613
Advanced Lighting Package		10	$2,549	86,272	12,941	4,314	2	$447	17,193	4,298	860
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	485	$21,766	4,922,846	1,956,733	546,983	180	$5,039	1,824,681	1,013,712	202,742
Weatherization Rebates	Rebates for various insulation measures.	228	$170,635	9,274,163	893,770	309,139					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	504	$191,404	11,854,876	1,170,081	404,945	2	$2,776	90,725	15,121	3,024
Residential Total		**62,592**	**$1,588,181**	**152,039,787**	**32,851,095**	**10,992,501**	**8,752**	**$219,901**	**26,866,767**	**9,843,472**	**1,968,694**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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)**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	1,042	$2,709	562,251	485,929	156,181					
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	4,278	$87,761	8,131,995	3,322,402	1,205,998	6,950	$40,582	3,898,761	6,690,695	1,338,139
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)	670	$45,895	828,791	615,130	206,555					
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	132	$3,724	194,212	64,737	12,947
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	80	$22,482	3,406,812	851,703	170,341
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	21	$945	814,918	60,149	40,746					
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	176	$8,936				3	$1,786			
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					
Agricultural											
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	132	$14,125	735,485	170,832	61,290					
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.	67	$2,871	250,468	60,650	20,872					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	73	$4,651	693,698	164,711	57,808					
Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	132	$505	88,183	61,795	22,046					
Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	135	$1,328	270,914	115,838	27,091					
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					
Ag, Commercial and Industrial Total		**7,251**	**$332,440**	**31,722,621**	**8,885,544**	**3,061,707**	**7,165**	**$68,574**	**7,499,785**	**7,607,135**	**1,521,427**
II. Demand Response Programs											
Industrial Interruptible Price	Industrial Interruptible Price	5	$100,665								
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	191	$86,666				1	$390			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	30	$149,331				3	$64,636			
Energy Audit Services - Residential *	Energy Audit Services - Residential	2,120	$739,087				10	$373			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	10	$87,500				1	$1,116			
Member Information and Education	Member Information and Education	38,203	$440,262				7,273	$101,801			
Peak Alert	Peak Alert	38,203	$19,560				7,273	$100			
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	38,203	$143,375				7,273	$30,032			
TOTAL		**186,808**	**$3,687,067**	**183,762,408**	**41,736,639**	**14,054,208**	**37,751**	**$486,923**	**34,366,552**	**17,450,607**	**3,490,121**
Percentage of 5 year plan goal achieved								**13%**	**19%**		**25%**

* 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
T8 or better Lighting Fixtures						56	$1,000	54,079	3,297	1
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
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	77	$5,361	187,287	17,026	6	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	**13,308**	**$282,551**	**27,476,533**	**2,088,908**	**868**	**8,752**	**$219,901**	**26,866,767**	**1,968,694**	**670**

	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
Heat Recovery Ventilators										
Commercial Contractor Rebate (GS & AS)	15	$763				3	$1,786			
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 - 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**

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			
Member Information and Education	7,400	$87,600				7,273	$101,801			
Peak Alert	7,400	$2,000				7,273	$100			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,400	$27,800				7,273	$30,032			
TOTAL	**37,183**	**$677,793**	**32,673,908**	**2,592,666**	**1,053**	**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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	48	$6,755	184,539	13,181	13
ENERGY STAR Qualified Room Air Conditioner	10	$319	8,360	929	1	10	$318	8,360	929	1
Geothermal Heat Pump	40	$80,821	10,579,670	528,984	36	44	$88,542	11,638,205	581,910	40
Air Source Heat Pump	37	$29,511	4,338,207	289,214	20	40	$32,073	4,689,976	312,665	22
Heat Recovery Ventilators	2	$319	24,952	1,248		2	$318	24,952	1,248	
Residential Contractor Rebates	49	$9,800				54	$10,800			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,300	$2,992	618,948	84,787	78	1,234	$2,828	587,524	80,483	74
Local CFL Rebate Program(s)	10,750	$27,704	5,114,659	700,638	645	10,213	$26,204	4,859,164	665,639	613
T8 or better Lighting Fixtures										
ENERGY STAR Ceiling Fan	70	$1,339	210,523	11,696	2	79	$1,507	237,590	13,199	2
Exterior Lighting										
High Efficiency Exterior Lighting	52	$1,995	51,878	11,790	0	54	$2,065	53,873	12,244	0
LED Holiday Lighting										
Residential Water Heating (low income included)										
High Efficiency Water Heater	173	$27,887	777,076	51,805	7	177	$28,389	795,028	53,002	7
Heat Pump Water Heater - (Add-On)	4	$1,534	76,760	7,676	1	4	$1,529	76,760	7,676	1
Heat Pump Water Heater - (Integrated)	8	$4,614	184,224	15,352	2	10	$6,372	230,280	19,190	2
Drain Water Heat Recovery System	1	$375	23,443	781	0	1	$375	23,443	781	0
Flow Restrictors - Faucet	50	$1,918	166,239	18,471	1	58	$2,217	192,838	21,426	1
Flow Restrictors - Shower	50	$3,197	315,224	31,522	3	58	$3,696	365,660	36,566	3
Tank Insulation	31	$600	52,736	5,274	0	33	$635	56,143	5,614	0
Pipe Insulation	32	$618	56,743	3,783	1	33	$635	58,512	3,901	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	78	$5,432	189,711	17,246	6	79	$5,502	192,136	17,467	6
ENERGY STAR Qualified Dishwasher	60	$1,918	77,379	7,034	5	62	$1,975	79,959	7,269	6
ENERGY STAR Qualified Refrigerator	82	$2,988	129,186	8,612	1	84	$3,053	132,338	8,823	1
ENERGY STAR Qualified Dehumidifier	42	$1,342	118,737	9,895	1	44	$1,402	124,391	10,366	1
ENERGY STAR Qualified Freezer	30	$959	33,347	2,223	0	30	$956	33,347	2,223	0
Appliance Recycling	108	$12,646	955,779	107,219	21	111	$13,264	984,306	110,389	21
Efficient Television	12	$614	23,891	1,991	0	14	$714	27,872	2,323	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	6	$3,836	199,089	6,636	1	6	$3,823	199,089	6,636	1
Advanced Lighting Package	2	$511	17,254	863	0	2	$510	17,254	863	0
Additional Low Income										
Energy Efficiency Kits	150	$6,743	1,522,530	169,170	20	120	$5,373	1,218,024	135,336	16
Weatherization Rebates	44	$32,758	1,774,082	59,136	7	48	$36,370	1,975,958	65,865	8
Building Shell - Existing Home Only										
Weatherization Rebates	96	$37,253	2,284,425	77,983	10	104	$39,135	2,439,415	83,451	11
Residential Total	**13,415**	**$309,067**	**30,103,013**	**2,244,671**	**882**	**12,856**	**$327,335**	**31,506,937**	**2,280,665**	**852**

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	214	$556	115,472	32,076	13
High Efficiency Interior Lighting	726	$14,848	1,188,664	183,578	2	976	$16,976	2,132,093	309,561	4
Exterior Lighting										
High Efficiency Exterior Lighting	132	$8,349	163,536	40,857	1	134	$8,744	165,758	41,311	1
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	8	$1,565	11,834	789	0	9	$1,815	13,316	888	1
Water Cooled Chillers						20	$150	106,560	5,328	6
Geothermal Heat Pump	30	$13,426	899,183	44,959	4	45	$21,976	1,411,837	70,592	5
Heat Recovery Ventilators										
Commercial Contractor Rebate (GS & AS)	36	$1,834				57	$2,899			
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	10	$895	38,758	3,230	0	16	$1,719	71,945	5,995	1
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$94	32,068	2,138	0	3	$94	32,068	2,138	0
Variable Speed Drive Motor Incentive	4	$3,069	1,488,920	99,261	9	4	$3,058	1,488,920	99,261	9
Agricultural										
Livestock Ventilation Fans	24	$2,808	125,540	10,462	3	28	$3,315	162,827	13,569	4
Ventilation Thermostat Controller	4	$128	10,884	907	0	4	$128	10,884	907	0
Circulating Fans --- BESS Lab Ratings	13	$608	48,128	4,011	1	14	$654	52,083	4,340	1
Efficient Livestock Waterers	13	$833	123,507	10,292		16	$1,019	152,051	12,671	
Hog Farrowing - Heat Lamps (<= 175W)	24	$92	16,033	4,008		28	$108	18,706	4,676	
Hog Farrowing - Single Crate Heating Pads (<=85W)	8	$256	16,016	1,602		10	$319	20,020	2,002	
Hog Farrowing - Heat Lamp or Pad Controller	64	$78	498,589	30,402		64	$78	498,589	30,402	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$13,633	1,103,405	83,432	8	2	$13,544	1,103,405	83,432	8
Ag, Commercial and Industrial Total	**1,326**	**$63,104**	**5,886,471**	**553,652**	**43**	**1,644**	**$77,152**	**7,556,530**	**719,149**	**54**

II. Demand Response Programs										
Industrial Interruptible Price	1	$19,874			155	1	$20,371			155
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	37	$16,660				38	$17,327			
Expert Energy Services - C&I	6	$29,421				6	$29,853			
Energy Audit Services - Residential *	412	$141,287				424	$148,400			
IV. Educational & Research Programs										
Model Housing Education	2	$17,500				2	$17,500			
Member Information and Education	7,518	$90,228				7,638	$92,935			
Peak Alert	7,518	$2,000				7,638	$2,000			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,518	$28,175				7,638	$28,673			
TOTAL	**37,753**	**$717,316**	**35,989,485**	**2,798,322**	**1,081**	**37,885**	**$761,546**	**39,063,467**	**2,999,815**	**1,061**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	$6,732	184,539	13,181	13	48	$6,710	184,539	13,181	13
ENERGY STAR Qualified Room Air Conditioner	10	$317	8,360	929	1	10	$316	8,360	929	1
Geothermal Heat Pump	46	$92,214	12,167,472	608,374	42	48	$95,862	12,696,739	634,837	44
Air Source Heat Pump	41	$32,835	4,806,953	320,464	22	42	$33,587	4,923,930	328,262	22
Heat Recovery Ventilators	2	$317	24,952	1,248		2	$316	24,952	1,248	
Residential Contractor Rebates	57	$11,400				60	$12,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,135	$2,590	540,389	74,026	68	1,045	$2,375	497,539	68,156	63
Local CFL Rebate Program(s)	9,396	$24,002	4,470,450	612,390	564	8,644	$21,984	4,112,661	563,378	519
T8 or better Lighting Fixtures										
ENERGY STAR Ceiling Fan	85	$1,616	255,627	14,202	3	87	$2,407	261,640	14,536	3
Exterior Lighting										
High Efficiency Exterior Lighting	56	$2,134	55,869	12,697	0	58	$2,203	57,864	13,151	0
LED Holiday Lighting										
Residential Water Heating (low income included)										
High Efficiency Water Heater	181	$28,886	812,979	54,199	7	185	$29,382	830,930	55,395	7
Heat Pump Water Heater - (Add-On)	4	$1,524	76,760	7,676	1	4	$1,519	76,760	7,676	1
Heat Pump Water Heater - (Integrated)	14	$8,891	322,391	26,866	3	18	$6,894	414,503	34,542	4
Drain Water Heat Recovery System	1	$375	23,443	781	0	1	$375	23,443	781	0
Flow Restrictors - Faucet	60	$2,286	199,487	22,165	1	62	$2,355	206,137	22,904	1
Flow Restrictors - Shower	60	$3,810	378,269	37,827	3	62	$3,925	390,878	39,088	3
Tank Insulation	34	$651	57,840	5,784	0	36	$687	61,246	6,125	0
Pipe Insulation	35	$670	62,063	4,138	1	36	$687	63,831	4,255	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	80	$5,572	194,561	17,687	6	81	$5,640	196,985	17,908	6
ENERGY STAR Qualified Dishwasher	64	$3,032	82,538	7,503	6	66	$3,064	85,117	7,738	6
ENERGY STAR Qualified Refrigerator	86	$3,116	135,490	9,033	1	88	$3,040	138,642	9,243	1
ENERGY STAR Qualified Dehumidifier	46	$1,461	130,045	10,837	1	48	$1,519	135,699	11,308	1
ENERGY STAR Qualified Freezer	30	$953	33,347	2,223	0	30	$950	33,347	2,223	0
Appliance Recycling	114	$13,417	1,006,537	112,927	22	117	$14,035	1,045,107	117,144	22
Efficient Television	14	$711	27,872	2,323	1	14	$709	27,872	2,323	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	6	$3,810	199,089	6,636	1	6	$3,798	199,089	6,636	1
Advanced Lighting Package	2	$508	17,254	863	0	2	$506	17,254	863	0
Additional Low Income										
Energy Efficiency Kits	60	$2,676	609,012	67,668	8	30	$1,333	304,506	33,834	4
Weatherization Rebates	48	$36,251	1,975,958	65,865	8	48	$36,133	1,975,958	65,865	8
Building Shell - Existing Home Only										
Weatherization Rebates	110	$41,145	2,549,113	87,108	12	110	$41,011	2,549,113	87,108	12
Residential Total	**11,925**	**$333,905**	**31,408,660**	**2,207,619**	**795**	**11,088**	**$335,323**	**31,544,645**	**2,170,637**	**745**

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	197	$508	106,299	29,527	12	181	$464	97,665	27,129	11
High Efficiency Interior Lighting	1,113	$17,645	2,411,321	342,455	5	863	$17,594	1,425,005	219,381	3
Exterior Lighting										
High Efficiency Exterior Lighting	136	$9,976	167,980	41,764	1	138	$11,040	170,202	42,218	1
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	9	$1,815	13,316	888	1	9	$1,814	13,316	888	1
Water Cooled Chillers										
Geothermal Heat Pump	30	$13,337	899,183	44,959	4	24	$10,635	719,347	35,967	3
Heat Recovery Ventilators	10	$450	388,056	19,403	6	11	$495	426,862	21,343	6
Commercial Contractor Rebate (GS & AS)	37	$1,874				31	$1,565			
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers	17	$1,649	66,190	5,516	1	14	$1,516	48,544	4,045	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	3	$94	32,068	2,138	0	3	$94	32,068	2,138	0
Variable Speed Drive Motor Incentive	4	$3,048	1,488,920	99,261	9	4	$2,438	1,488,920	99,261	9
Agricultural										
Livestock Ventilation Fans	30	$3,537	171,940	14,328	4	30	$2,115	165,107	13,759	4
Ventilation Thermostat Controller	4	$128	10,884	907	0	4	$127	10,884	907	0
Circulating Fans --- BESS Lab Ratings	14	$652	52,083	4,340	1	14	$395	54,001	4,500	1
Efficient Livestock Waterers	16	$1,016	152,051	12,671		16	$1,013	152,051	12,671	
Hog Farrowing - Heat Lamps (<= 175W)	30	$114	20,042	5,010		30	$114	20,042	5,010	
Hog Farrowing - Single Crate Heating Pads (<=85W)	10	$318	20,020	2,002		10	$317	20,020	2,002	
Hog Farrowing - Heat Lamp or Pad Controller	2	$128	15,527	947		2	$127	15,527	947	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$13,457	1,103,405	83,432	8	2	$13,371	1,103,405	83,432	8
Ag, Commercial and Industrial Total	**1,664**	**$69,745**	**7,119,283**	**709,550**	**51**	**1,386**	**$65,234**	**5,962,962**	**575,599**	**48**

II. Demand Response Programs										
Industrial Interruptible Price	1	$20,880			155	1	$21,402			155
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	40	$18,000				41	$18,679			
Expert Energy Services - C&I	6	$30,299				6	$30,758			
Energy Audit Services - Residential *	436	$152,600				448	$156,800			
IV. Educational & Research Programs										
Model Housing Education	2	$17,500				2	$17,500			
Member Information and Education	7,761	$95,722				7,886	$73,777			
Peak Alert	7,761	$2,000				7,886	$11,560			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,761	$29,125				7,886	$29,602			
TOTAL	**37,357**	**$769,777**	**38,527,942**	**2,917,169**	**1,001**	**36,630**	**$760,635**	**37,507,607**	**2,746,236**	**948**
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. 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 14. 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.

NVREC's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	3	300	7,770	2,775	555
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					
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	45	$112,141	11,951,037	1,659,866	597,552	16	$48,000	4,249,258	1,062,314	212,463
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	17	$13,500	2,002,862	667,621	133,524
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.						1,701	$6,108	813,209	556,992	111,398
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	50	$15,000	173,160	57,720	11,544
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	21	$1,575	65,385	29,720	5,944
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	244	$7,579	315,799	76,126	28,709	13	$488	16,825	7,648	1,530
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	196	$6,121	310,023	54,834	20,668	30	$1,125	47,453	15,818	3,164
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	291	$9,089	324,625	57,339	21,642	6	$225	6,693	2,231	446
Appliance Recycling	Incentives for appliance recycling.	415	$24,995	3,678,851	1,221,347	409,102	44	$1,650	393,027	219,369	43,874
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	125	$5,330	1,271,228	423,743	141,248	100	$3,376	1,016,982	564,990	112,998
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	119	$73,946	5,436,824	455,353	181,227	14	$8,494	625,640	104,273	20,855
Residential Total		**15,240**	**$573,912**	**64,839,770**	**13,444,533**	**4,671,317**	**2,015**	**$99,841**	**9,418,263**	**3,291,472**	**658,294**
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					
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					
Ag, Commercial and Industrial Total		**4,791**	**$169,743**	**46,710,478**	**10,774,568**	**3,681,779**	**0**	**$0**	**0**	**0**	**0**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	9,402	$957,856				1,665	$180,417			
Air Conditioning Load Control	Load control for air conditioning	5,881	$559,756				973	$105,433			
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			
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								
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				2,570	$85,927			
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				2,570	$12,507			
TOTAL		**109,615**	**$3,516,500**	**111,550,247**	**24,219,101**	**8,353,096**	**11,463**	**$665,083**	**9,418,263**	**3,291,472**	**658,294**
Percentage of 5 year plan goal achieved								**19%**	**8%**		**8%**

* 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
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
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**
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					
Ag, Commercial and Industrial Total	**669**	**$33,371**	**9,107,628**	**682,426**	**64**	**0**	**$0**	**0**	**0**	**0**
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
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.

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	8	$1,344	32,556	2,325	3
ENERGY STAR Qualified Room Air Conditioner	7	$216	5,524	614	1	8	$261	6,314	702	1
Geothermal Heat Pump	8	$19,975	2,124,629	106,231	12	9	$22,440	2,390,207	119,510	14
Air Source Heat Pump	53	$39,373	6,244,216	416,281	54	53	$39,809	6,244,216	416,281	54
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	2,043	$4,598	976,711	133,796	123	2,464	$5,544	1,177,982	161,367	148
Local CFL Rebate Program(s)										
Residential Water Heating (low income included)										
High Efficiency Water Heater	71	$17,893	345,787	23,052	3	73	$18,065	354,795	23,653	3
Flow Restrictors - Faucet	58	$617	193,526	21,503	1	58	$617	193,526	21,503	1
Flow Restrictors - Shower	29	$309	183,483	18,348	1	29	$309	183,483	18,348	1
Tank Insulation	29	$309	49,573	4,957	0	29	$309	49,573	4,957	0
Pipe Insulation	29	$309	51,665	3,444	1	29	$309	51,665	3,444	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	7	$408	17,094	1,554	1	8	$493	19,536	1,776	1
ENERGY STAR Qualified Dishwasher	40	$1,250	51,770	4,706	4	49	$1,514	63,419	5,765	4
ENERGY STAR Qualified Refrigerator	32	$1,010	50,616	3,374	0	39	$1,222	61,688	4,113	0
ENERGY STAR Qualified Freezer	48	$1,500	53,546	3,570	0	58	$1,815	64,702	4,313	1
Appliance Recycling	82	$4,967	726,459	80,786	14	83	$4,998	737,269	81,987	14
Additional Low Income										
Energy Efficiency Kits	25	$1,066	254,246	28,250	3	25	$1,066	254,246	28,250	3
Building Shell - Existing Home Only										
Weatherization Rebates	18	$11,114	822,377	27,413	2	24	$14,741	1,096,502	36,550	3
Residential Total	**2,585**	**$106,022**	**12,176,678**	**879,698**	**222**	**3,046**	**$114,856**	**12,981,678**	**934,845**	**252**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	236	$471	128,256	35,627	14	284	$568	154,342	42,873	17
High Efficiency Interior Lighting	481	$1,060	451,745	97,650	1	577	$1,254	542,406	117,257	2
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,630	17,360	868	0	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	2	$1,480	52,348	3,490	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$955	27,722	1,848	0	5	$955	27,722	1,848	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	67	$26,790	716,183	47,746	6	67	$26,790	716,183	47,746	6
Variable Speed Drive Motor Incentive	21	$1,269	7,830,761	522,051	45	21	$1,269	7,830,761	522,051	45
Ag, Commercial and Industrial Total	**813**	**$33,655**	**9,224,376**	**709,279**	**67**	**957**	**$33,946**	**9,341,123**	**736,132**	**70**
II. Demand Response Programs										
Water Heater Load Control	1,807	$185,829			904	1,880	$191,404			940
Air Conditioning Load Control	1,104	$108,596			773	1,174	$111,853			822
Space Heating Load Control (Interruptible)	1,119	$111,497			5,036	1,181	$114,842			5,315
Dual-Fuel Space Heating	671	$74,890			4,026	671	$77,136			4,026
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$250				1	$250			
Expert Energy Services - C&I	1	$250				1	$250			
Energy Audit Services - Residential *	5	$500				5	$500			
IV. Educational & Research Programs										
Model Housing Education	2,590	$10,000				2,600	$10,000			
Domestic Water Heater Enhancement	2,590	$6,000				2,600	$6,000			
Member Information and Education	2,590	$28,350				2,600	$28,350			
Peak Alert	2,590	$50				2,600	$50			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,590	$13,000				2,600	$13,500			
TOTAL	**21,056**	**$678,889**	**21,401,053**	**1,588,977**	**11,027**	**21,916**	**$702,938**	**22,322,801**	**1,670,977**	**11,424**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	11	$1,821	45,284	3,235	3
ENERGY STAR Qualified Room Air Conditioner	10	$306	7,892	877	1	11	$352	8,681	965	1
Geothermal Heat Pump	10	$24,815	2,655,786	132,789	15	11	$27,375	2,921,365	146,068	17
Air Source Heat Pump	53	$40,020	6,244,216	416,281	54	54	$40,470	6,362,032	424,135	55
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	3,317	$7,462	1,585,781	217,230	199
Local CFL Rebate Program(s)										
Residential Water Heating (low income included)										
High Efficiency Water Heater	73	$18,167	354,795	23,653	3	73	$18,345	354,795	23,653	3
Flow Restrictors - Faucet	58	$617	193,526	21,503	1	58	$617	193,526	21,503	1
Flow Restrictors - Shower	29	$309	183,483	18,348	1	29	$309	183,483	18,348	1
Tank Insulation	29	$309	49,573	4,957	0	29	$309	49,573	4,957	0
Pipe Insulation	29	$309	51,665	3,444	1	29	$309	51,665	3,444	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	9	$579	21,978	1,998	1	11	$668	26,862	2,442	1
ENERGY STAR Qualified Dishwasher	57	$1,776	73,773	6,707	5	66	$2,049	85,421	7,766	6
ENERGY STAR Qualified Refrigerator	46	$1,434	72,761	4,851	0	53	$1,655	83,833	5,589	1
ENERGY STAR Qualified Freezer	68	$2,130	75,857	5,057	1	79	$2,455	88,128	5,875	1
Appliance Recycling	84	$5,031	744,332	82,772	14	84	$5,063	744,332	82,772	14
Additional Low Income										
Energy Efficiency Kits	25	$1,066	254,246	28,250	3	25	$1,066	254,246	28,250	3
Building Shell - Existing Home Only										
Weatherization Rebates	30	$18,418	1,370,628	45,688	4	35	$22,143	1,599,066	53,302	4
Residential Total	**3,499**	**$123,345**	**13,764,406**	**988,176**	**280**	**3,975**	**$132,468**	**14,638,072**	**1,049,534**	**312**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	332	$664	180,427	50,119	20	382	$765	207,600	57,667	23
High Efficiency Interior Lighting	673	$1,446	633,068	136,864	2	773	$1,648	727,506	157,288	2
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,630	17,360	868	0	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	2	$1,480	52,348	3,490	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	5	$955	27,722	1,848	0	5	$955	27,722	1,848	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	67	$26,790	716,183	47,746	6	67	$26,790	716,183	47,746	6
Variable Speed Drive Motor Incentive	21	$1,269	7,830,761	522,051	45	21	$1,269	7,830,761	522,051	45
Ag, Commercial and Industrial Total	**1,101**	**$34,234**	**9,457,870**	**762,985**	**74**	**1,251**	**$34,537**	**9,579,481**	**790,957**	**77**
II. Demand Response Programs										
Water Heater Load Control	1,953	$197,146			977	2,026	$203,060			1,013
Air Conditioning Load Control	1,245	$115,209			872	1,321	$118,665			925
Space Heating Load Control (Interruptible)	1,244	$118,288			5,598	1,309	$121,836			5,891
Dual-Fuel Space Heating	671	$79,450			4,026	671	$81,834			4,026
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$250				1	$250			
Expert Energy Services - C&I	1	$250				1	$250			
Energy Audit Services - Residential *	5	$500				5	$500			
IV. Educational & Research Programs										
Model Housing Education	2,610	$10,000				2,620	$10,000			
Domestic Water Heater Enhancement	2,610	$6,000				2,620	$6,000			
Member Information and Education	2,610	$28,350				2,620	$28,350			
Peak Alert	2,610	$50				2,620	$50			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,610	$14,000				2,620	$14,500			
TOTAL	**22,770**	**$727,072**	**23,222,276**	**1,751,162**	**11,826**	**23,660**	**$752,301**	**24,217,553**	**1,840,491**	**12,243**
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 14. 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 632 small commercial and industrial member-consumers of 1000 KVA or less and 66 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.

North West Rural Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	31	1,712	119,145	42,552	8,510
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	5	$265	3,946	2,192	438
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	58	$160,727	15,403,559	3,850,890	770,178
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	105	$91,169	12,370,617	4,123,539	824,708
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.						4,068	$10,318	1,944,817	1,332,067	266,413
CFL Recycling	Recycling of compact florescent light bulbs.						104	$147			
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	180	$63,008	900,182	300,061	60,012
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	172	$12,953	535,531	243,423	48,685
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	584	$18,234	755,848	182,020	68,713	96	$5,167	124,249	56,477	11,295
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	471	$14,722	745,004	131,918	49,667	134	$6,476	211,955	70,652	14,130
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	700	$21,859	780,885	138,105	52,059	30	$1,836	33,467	11,156	2,231
Appliance Recycling	Incentives for appliance recycling.	1,002	$60,025	8,863,218	2,944,354	985,823	141	$5,382	1,099,489	618,997	123,799
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	700	$29,841	7,118,874	2,316,459	790,986	277	$9,132	2,817,040	1,565,022	313,004
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	285	$177,862	13,020,966	1,088,888	434,032	95	$44,081	4,472,678	746,264	149,253
Residential Total		**37,059**	**$1,397,362**	**160,519,758**	**33,694,304**	**11,715,256**	**10,094**	**$456,102**	**42,161,249**	**14,418,478**	**2,883,696**
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	337	$28	183,145	254,368	50,874
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	1,455	$9,452	1,958,889	1,572,498	314,500
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	10	$2,630	173,604	43,401	8,680
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	5	$1,309	130,869	43,623	8,725
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.							$656			
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	8	$1,602	36,031	12,010	2,402
Ag/Commercial & Industrial Insulation											
Building Envelope	Rebates for insulation.						9	$1,930	2,234,014	446,803	89,361
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	820	$328,505	8,765,226	1,753,045	584,348	61	$1,625	652,047	217,349	43,470
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	260	$15,560	96,952,284	19,390,457	6,463,486					
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**	**1,905**	**$181,726**	**41,362,795**	**14,588,117**	**2,917,623**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	34,801	$3,576,920				6,442	$673,729			
Air Conditioning Load Control	Load control for air conditioning	19,703	$1,868,684				3,451	$351,975			
Space Heating Load Control (Interruptible)	Load control for space heating.	21,032	$2,141,210				3,765	$403,307			
Dual-Fuel Space Heating	Duel fuel space heating	4,380	$576,824				876	$108,822			
Crop Drying											
Load Control	Crop drying load control.						75	$9,302			
Irrigation											
Load Control	Irrigation load control.	255	$40,308				68	$7,592			
Industrial Interruptible Price	Industrial Interruptible Price	230	$28,864				44	$5,437			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	20	$4,000				4	$1,262			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	5	$1,500								
Energy Audit Services - Residential *	Energy Audit Services - Residential	140	$14,000				4	$819			
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				7,052	$86,058			
Peak Alert	Peak Alert	35,275	$1,350				7,052	$478			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	35,275	$168,500				7,052	$21,333			
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				7,052	$36,330			
TOTAL		**299,237**	**$10,544,963**	**276,091,401**	**60,324,657**	**20,814,138**	**54,936**	**$2,344,272**	**83,524,044**	**29,006,596**	**5,801,319**
Percentage of 5 year plan goal achieved								**22%**	**30%**		**28%**

* 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 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
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**
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
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**
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	19	$3,232	77,840	5,560	6
ENERGY STAR Qualified Room Air Conditioner	17	$519	13,417	1,491	2	20	$627	15,784	1,754	2
Geothermal Heat Pump	20	$48,047	5,311,572	265,579	31	22	$53,976	5,842,729	292,136	34
Air Source Heat Pump	126	$94,707	14,844,740	989,649	129	128	$95,755	15,080,371	1,005,358	131
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	5,927	$13,335	2,833,562	388,159	356
Local CFL Rebate Program(s)										
CFL Recycling										
Residential Water Heating (low income included)										
High Efficiency Water Heater	172	$43,039	837,095	55,806	7	174	$43,452	846,103	56,407	8
Flow Restrictors - Faucet	139	$1,485	463,796	51,533	3	139	$1,485	463,796	51,533	3
Flow Restrictors - Shower	70	$742	442,890	44,289	4	70	$742	442,890	44,289	4
Tank Insulation	70	$742	119,658	11,966	1	70	$742	119,658	11,966	1
Pipe Insulation	70	$742	124,709	8,314	1	70	$742	124,709	8,314	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	16	$981	39,072	3,552	1	19	$1,187	46,398	4,218	2
ENERGY STAR Qualified Dishwasher	96	$3,008	124,249	11,295	9	117	$3,642	151,428	13,766	11
ENERGY STAR Qualified Refrigerator	78	$2,428	123,377	8,225	1	94	$2,940	148,685	9,912	1
ENERGY STAR Qualified Freezer	115	$3,607	128,288	8,553	1	140	$4,365	156,177	10,412	1
Appliance Recycling	199	$11,949	1,761,257	195,899	33	200	$12,023	1,768,320	196,684	33
Additional Low Income										
Energy Efficiency Kits	135	$5,755	1,372,926	152,547	18	140	$5,968	1,423,775	158,197	18
Building Shell - Existing Home Only										
Weatherization Rebates	43	$26,732	1,964,567	65,486	5	57	$35,456	2,604,193	86,806	7
Residential Total	**6,296**	**$258,208**	**30,083,365**	**2,200,496**	**544**	**7,406**	**$279,669**	**32,146,418**	**2,345,472**	**617**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	578	$1,156	314,118	87,255	35	697	$1,393	378,789	105,219	42
High Efficiency Interior Lighting	1,179	$2,600	1,107,031	239,293	3	1,417	$3,074	1,331,795	287,902	4
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning										
Geothermal Heat Pump	2	$3,998	34,721	1,736	0	2	$3,998	34,721	1,736	0
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	6	$3,628	157,043	10,470	1	6	$3,628	157,043	10,470	1
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	12	$2,343	66,533	4,436	1	12	$2,343	66,533	4,436	1
Ag/Commercial & Industrial Insulation										
Building Envelope										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	164	$65,701	1,753,045	116,870	15	164	$65,701	1,753,045	116,870	15
Variable Speed Drive Motor Incentive	52	$3,112	19,390,457	1,292,697	112	52	$3,112	19,390,457	1,292,697	112
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**1,993**	**$82,538**	**22,822,947**	**1,752,755**	**166**	**2,350**	**$83,249**	**23,112,383**	**1,819,329**	**174**
II. Demand Response Programs										
Water Heater Load Control	6,785	$693,941			3,393	6,959	$714,759			3,480
Air Conditioning Load Control	3,765	$362,534			2,636	3,934	$373,410			2,754
Space Heating Load Control (Interruptible)	4,053	$415,406			18,239	4,203	$427,868			18,914
Dual-Fuel Space Heating	876	$111,907			5,256	876	$115,264			5,256
Crop Drying										
Load Control										
Irrigation										
Load Control	51	$7,820			337	51	$8,055			337
Industrial Interruptible Price	44	$5,600			290	46	$5,768			304
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	4	$800				4	$800			
Expert Energy Services - C&I	1	$300				1	$300			
Energy Audit Services - Residential *	24	$2,400				28	$2,800			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement	7,040	$515				7,055	$530			
Member Information and Education	7,040	$17,100				7,055	$17,200			
Peak Alert	7,040	$260				7,055	$270			
Living with Energy in Iowa	7,040	$33,650				7,055	$33,700			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,040	$41,600				7,055	$44,500			
TOTAL	**59,092**	**$2,034,579**	**52,906,312**	**3,953,252**	**30,860**	**61,133**	**$2,108,142**	**55,258,801**	**4,164,801**	**31,833**
Percentage of 5 year plan goal achieved										

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

North West Rural Electric Cooperative	2013 Estimated Achievable Potential					2014 Estimated Achievable Potential				
	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Projected Participants	Projected Cost	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	25	$4,379	103,294	7,378	8
ENERGY STAR Qualified Room Air Conditioner	24	$736	18,941	2,105	2	27	$846	21,309	2,368	2
Geothermal Heat Pump	24	$59,688	6,373,886	318,694	37	27	$65,847	7,170,622	358,531	42
Air Source Heat Pump	129	$96,262	15,198,187	1,013,212	132	130	$97,344	15,316,002	1,021,067	133
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	7,978	$17,949	3,814,098	522,479	479
Local CFL Rebate Program(s)										
CFL Recycling										
Residential Water Heating (low income included)										
High Efficiency Water Heater	175	$43,698	851,648	56,777	8	176	$44,126	857,192	57,146	8
Flow Restrictors - Faucet	139	$1,485	463,796	51,533	3	139	$1,485	463,796	51,533	3
Flow Restrictors - Shower	70	$742	442,890	44,289	4	70	$742	442,890	44,289	4
Tank Insulation	70	$742	119,658	11,966	1	70	$742	119,658	11,966	1
Pipe Insulation	70	$742	124,709	8,314	1	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	26	$1,606	63,492	5,772	2
ENERGY STAR Qualified Dishwasher	137	$4,273	177,314	16,119	12	158	$4,929	204,493	18,590	14
ENERGY STAR Qualified Refrigerator	110	$3,450	173,993	11,600	1	127	$3,980	200,882	13,392	1
ENERGY STAR Qualified Freezer	164	$5,122	182,950	12,197	2	189	$5,905	210,839	14,056	2
Appliance Recycling	202	$12,100	1,786,192	198,670	34	203	$12,180	1,797,001	199,871	34
Additional Low Income										
Energy Efficiency Kits	145	$6,181	1,474,624	163,847	19	150	$6,395	1,525,473	169,497	20
Building Shell - Existing Home Only										
Weatherization Rebates	71	$44,301	3,243,820	108,127	9	85	$53,261	3,883,446	129,448	10
Residential Total	**8,503**	**$300,298**	**34,089,492**	**2,482,583**	**687**	**9,650**	**$322,458**	**36,319,196**	**2,635,697**	**762**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	815	$1,629	442,917	123,032	49	938	$1,876	509,762	141,600	56
High Efficiency Interior Lighting	1,653	$3,546	1,554,670	336,102	5	1,899	$4,040	1,786,990	386,345	5
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning										
Geothermal Heat Pump	2	$3,998	34,721	1,736	0	2	$3,998	34,721	1,736	0
Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	6	$3,628	157,043	10,470	1	6	$3,628	157,043	10,470	1
Commercial Contractor Rebate (GS & AS)										
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	12	$2,343	66,533	4,436	1	12	$2,343	66,533	4,436	1
Ag/Commercial & Industrial Insulation										
Building Envelope										
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	164	$65,701	1,753,045	116,870	15	164	$65,701	1,753,045	116,870	15
Variable Speed Drive Motor Incentive	52	$3,112	19,390,457	1,292,697	112	52	$3,112	19,390,457	1,292,697	112
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**2,704**	**$83,957**	**23,399,386**	**1,885,343**	**182**	**3,073**	**$84,698**	**23,698,551**	**1,954,154**	**190**
II. Demand Response Programs										
Water Heater Load Control	7,134	$736,202			3,567	7,310	$758,288			3,655
Air Conditioning Load Control	4,109	$384,613			2,876	4,291	$396,151			3,004
Space Heating Load Control (Interruptible)	4,356	$440,704			19,602	4,513	$453,925			20,309
Dual-Fuel Space Heating	876	$118,722			5,256	876	$122,284			5,256
Crop Drying										
Load Control										
Irrigation										
Load Control	51	$8,296			337	51	$8,545			337
Industrial Interruptible Price	48	$5,941			317	50	$6,119			330
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	4	$800				4	$800			
Expert Energy Services - C&I	1	$300				1	$300			
Energy Audit Services - Residential *	32	$3,200				36	$3,600			
IV. Educational & Research Programs										
Domestic Water Heater Enhancement	7,070	$545				560	$575			
Member Information and Education	7,070	$17,300				7,085	$17,400			
Peak Alert	7,070	$280				7,085	$290			
Living with Energy in Iowa	7,070	$33,750				7,085	$33,800			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	7,070	$46,600				7,085	$48,900			
TOTAL	**63,168**	**$2,181,508**	**57,488,878**	**4,367,925**	**32,824**	**58,755**	**$2,258,133**	**60,017,747**	**4,589,851**	**33,842**
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. 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 14. 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.

Osceola Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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.	15	$2,438	45,765	9,212	3,269					
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	17	$531	11,039	3,175	1,227	1	$54	649	361	72
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	8	$19,600	2,124,629	278,858	106,231	2	$1,999	531,157	132,789	26,558
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	75	$56,250	8,836,155	1,720,105	589,077	9	$5,716	1,060,339	353,446	70,689
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					
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	3,500	$8,750	1,673,270	687,645	229,215	750	$1,978	358,558	245,588	49,118
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.						66	$508	81,044	24,709	4,942
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.	200	$68,750	900,765	174,148	60,051	19	$3,614	86,613	28,871	5,774
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	204	$4,565	680,679	222,444	75,631					
Flow Restrictors - Shower	Incentive for low-flow shower head.	184	$8,234	1,164,168	316,350	116,417					
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	18	$2,324	56,044	25,475	5,095
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	50	$1,563	64,713	17,649	5,883	7	$379	9,060	4,118	824
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	24	$750	37,962	7,065	2,531	8	$508	12,654	4,218	844
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	9	$281	10,040	1,636	669	1	$54	1,116	372	74
Appliance Recycling	Incentives for appliance recycling.	160	$10,750	1,429,769	476,590	158,863	2	$133	21,618	12,010	2,402
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
Residential Total		**14,740**	**$225,446**	**23,106,395**	**6,263,619**	**2,156,557**	**923**	**$18,690**	**2,625,645**	**1,057,952**	**211,590**
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					
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	146	$13,182	162,789	166,112	33,222
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	5	$375	53,447	10,689	3,563					
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	5	$2,500	1,632,116	326,423	108,808					
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		45	$45,000	2,207,291	632,757	220,729					
Ag, Commercial and Industrial Total		**1,137**	**$50,930**	**4,718,504**	**1,633,845**	**554,899**	**606**	**$14,191**	**471,192**	**551,615**	**110,323**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	2,875	$172,500				521	$25,000			
Air Conditioning Load Control	Load control for air conditioning						186	$974			
Dual-Fuel Space Heating	Duel fuel space heating						213	$2,331			
Crop Drying											
Load Control	Crop drying load control.	40					8	$355			
Irrigation											
Load Control	Irrigation load control.	60					11				
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				894	$6,472			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	4,500	$21,600				894	$2,521			
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				894	$4,400			
TOTAL		**32,452**	**$534,351**	**27,824,899**	**7,897,464**	**2,711,456**	**5,152**	**$75,402**	**3,096,837**	**1,609,567**	**321,913**
Percentage of 5 year plan goal achieved								**14%**	**11%**		**12%**

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

Osceola Electric Cooperative, Inc.	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	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
Residential Total	**2,729**	**$40,104**	**4,119,338**	**390,276**	**182**	**923**	**$18,690**	**2,625,645**	**211,590**	**75**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	215	$538	161,502	43,649	13					
Exterior Lighting										
High Efficiency Exterior Lighting	2	$75	4,079	833	0	146	$13,182	162,789	33,222	1
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**
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	2	$313	5,874	420	1
ENERGY STAR Qualified Room Air Conditioner	3	$94	1,948	216	0	3	$94	1,948	216	0
Geothermal Heat Pump	1	$2,450	265,579	13,279	2	2	$4,900	531,157	26,558	3
Air Source Heat Pump	14	$10,500	1,649,416	109,961	14	15	$11,250	1,767,231	117,815	15
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,877	$4,693	897,351	122,925	113	2,000	$5,000	956,154	130,980	120
Local CFL Rebate Program(s)	700	$1,750	334,654	45,843	42	700	$1,750	334,654	45,843	42
T8 or better Lighting Fixtures										
Exterior Lighting										
High Efficiency Exterior Lighting	8	$2,000	17,827	3,241	1	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	40	$13,750	180,153	12,010	2
Flow Restrictors - Faucet	38	$850	126,793	14,088	1	40	$895	133,466	14,830	1
Flow Restrictors - Shower	38	$1,701	240,426	24,043	2	40	$1,790	253,080	25,308	2
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	16	$1,000	39,072	3,552	1	17	$1,063	41,514	3,774	1
ENERGY STAR Qualified Dishwasher	10	$313	12,943	1,177	1	10	$313	12,943	1,177	1
ENERGY STAR Qualified Refrigerator	4	$125	6,327	422	0	5	$156	7,909	527	0
ENERGY STAR Qualified Freezer	1	$31	1,116	74	0	2	$63	2,231	149	0
Appliance Recycling	32	$2,150	285,954	31,773	5	32	$2,150	285,954	31,773	5
Additional Low Income										
Energy Efficiency Kits	20	$500	203,396	22,600	3	20	$500	203,396	22,600	3
Residential Total	**2,802**	**$41,531**	**4,259,819**	**405,022**	**186**	**2,936**	**$45,985**	**4,735,491**	**437,220**	**197**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	212	$530	159,248	43,040	13	213	$533	159,999	43,243	13
Exterior Lighting										
High Efficiency Exterior Lighting	2	$75	4,079	833	0	2	$75	4,079	833	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	1	$75	10,689	713	0	1	$75	10,689	713	0
Variable Speed Drive Motor Incentive	1	$500	326,423	21,762	2	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	9	$9,000	441,458	44,146	9
Ag, Commercial and Industrial Total	**224**	**$9,680**	**892,847**	**105,587**	**23**	**226**	**$10,183**	**942,649**	**110,696**	**24**
II. Demand Response Programs										
Water Heater Load Control	575	$34,500			288	575	$34,500			288
Air Conditioning Load Control										
Dual-Fuel Space Heating										
Crop Drying										
Load Control	8				16	8				16
Irrigation										
Load Control	12				79	12				79
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	20	$6,250				20	$6,250			
IV. Educational & Research Programs										
Member Information and Education	900	$2,450				900	$2,475			
Living with Energy in Iowa	900	$4,320				900	$4,320			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	900	$4,000				900	$4,050			
TOTAL	**6,341**	**$102,731**	**5,152,666**	**510,610**	**592**	**6,477**	**$107,763**	**5,678,140**	**547,916**	**604**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	$625	11,748	839	1	4	$625	11,748	839	1
ENERGY STAR Qualified Room Air Conditioner	4	$125	2,597	289	0	5	$156	3,247	361	0
Geothermal Heat Pump	2	$4,900	531,157	26,558	3	2	$4,900	531,157	26,558	3
Air Source Heat Pump	16	$12,000	1,885,046	125,670	16	16	$12,000	1,885,046	125,670	16
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	2,246	$5,615	1,073,761	147,091	135
Local CFL Rebate Program(s)	700	$1,750	334,654	45,843	42	700	$1,750	334,654	45,843	42
T8 or better Lighting Fixtures										
Exterior Lighting										
High Efficiency Exterior Lighting	8	$2,000	17,827	3,241	1	8	$2,000	17,827	3,241	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	42	$14,438	189,161	12,611	2	44	$15,125	198,168	13,211	2
Flow Restrictors - Faucet	42	$940	140,140	15,571	1	44	$985	146,813	16,313	1
Flow Restrictors - Shower	42	$1,880	265,734	26,573	2	44	$1,969	278,388	27,839	2
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	18	$1,125	43,956	3,996	1	19	$1,188	46,398	4,218	2
ENERGY STAR Qualified Dishwasher	10	$313	12,943	1,177	1	10	$313	12,943	1,177	1
ENERGY STAR Qualified Refrigerator	5	$156	7,909	527	0	6	$188	9,491	633	0
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0	3	$94	3,347	223	0
Appliance Recycling	32	$2,150	285,954	31,773	5	32	$2,150	285,954	31,773	5
Additional Low Income										
Energy Efficiency Kits	20	$500	203,396	22,600	3	20	$500	203,396	22,600	3
Residential Total	**3,070**	**$48,271**	**4,949,410**	**456,451**	**206**	**3,203**	**$49,556**	**5,042,337**	**467,588**	**214**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	215	$538	161,502	43,649	13	217	$543	163,004	44,055	13
Exterior Lighting										
High Efficiency Exterior Lighting	2	$75	4,079	833	0	2	$75	4,079	833	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	1	$75	10,689	713	0	1	$75	10,689	713	0
Variable Speed Drive Motor Incentive	1	$500	326,423	21,762	2	1	$500	326,423	21,762	2
Agricultural										
Hog Farrowing - Heat Lamps (<= 175W)										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	10	$9,500	490,509	49,051	10	10	$10,000	490,509	49,051	10
Ag, Commercial and Industrial Total	**229**	**$10,688**	**993,202**	**116,007**	**25**	**231**	**$11,193**	**994,705**	**116,413**	**25**
II. Demand Response Programs										
Water Heater Load Control	575	$34,500			288	575	$34,500			288
Air Conditioning Load Control										
Dual-Fuel Space Heating										
Crop Drying										
Load Control	8				16	8				16
Irrigation										
Load Control	12				79	12				79
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	20	$6,250				20	$6,250			
IV. Educational & Research Programs										
Member Information and Education	900	$2,500				900	$2,525			
Living with Energy in Iowa	900	$4,320				900	$4,320			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	900	$4,100				900	$4,150			
TOTAL	**6,614**	**$110,628**	**5,942,613**	**572,458**	**614**	**6,749**	**$112,494**	**6,037,042**	**584,000**	**622**
Percentage of 5 year plan goal achieved										

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

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 1396, Pella Cooperative Electric serves member-consumers in Marion, Jasper, Mahaska, Poweshiek, and Warren counties. Reliable service is provided to about 2800 accounts using approximately 633 miles of line. Therefore, the Cooperative has a density of 4.49 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 14. 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 2010, 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 appliances, 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, weatherization, heat recovery, and central air. Furthermore, we sell high efficiency electric waters heaters that qualify for rebates, and we provide installation services for a small fee. In addition, we offer appliance recycling through a program called Pull-the-Plug. This program arranges for the pick-up of any appliances; it also provides rebates for certain appliances that are old and very inefficient.

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 2010, 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.

Pella Cooperative Electric also holds events that encourage energy efficiency. To promote the use of compact fluorescent light bulbs (CFLs), which are more efficient than incandescent light bulbs, we held a CFL promotion in 2010. Over 12,000 CFLs were purchased and distributed to the membership during this period. For this effort, we were awarded the 2010 Exceptional Lighting Energy Efficiency Initiative Award by

Central Iowa Power Cooperative. 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 a monthly energy savers column 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 mange 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 page. Postings are done three to four times per week and cover topics related to energy efficiency. For example, we will post links to our website, specifically to pages about

energy efficiency. We often post videos with step-by-step demonstrations for energy efficiency measures such as replacing your furnace air filter. Or, 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. We also send out bill stuffers three to four times per year. These stuffers provide information about energy efficiency measures such as rebates the Cooperative offers.

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. Each month a new ad is recorded; at least four out of twelve months are announcements related to energy efficiency. In 2010, our public service announcements included tips about programmable thermostats, weatherization, and sealing air leaks in your home.

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.

Pella Cooperative Electric's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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.						15	2,042	80,156	28,627	5,725
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	92	$241,712	24,259,337	3,441,134	1,212,967	19	$36,253	5,010,080	1,252,520	250,504
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	45	$31,171	5,263,960	1,052,792	350,931	2	$1,315	233,954	77,985	15,597
Heat Recovery Ventilators	Rebate for heat recovery ventilators.						2	$104	24,863	6,216	1,243
Residential Contractor Rebates	Incentive for heat pump installs	151	$30,200				20	$3,265			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	5,134	$13,346	2,436,979	1,038,757	333,833	1,216	$2,632	645,571	442,172	88,434
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	3,981	$10,349	1,889,679	805,451	258,860	13,069	$34,452	6,203,521	4,248,987	849,797
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	1,502	$17,051	844,926	146,285	51,520					
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	10	$195	29,955	4,993	1,664					
CFL Recycling	Recycling of compact florescent light bulbs.							$148			
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)						138	$4,289	164,622	164,622	37,414
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	300	$42,852	1,155,552	228,818	77,037	40	$13,667	139,609	46,536	9,307
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	21	$13,587	481,860	97,519	40,155					
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	183	$7,121	606,263	188,468	67,363					
Flow Restrictors - Shower	Incentive for low-flow shower head.	183	$11,868	1,149,601	321,637	114,960					
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.	90	$6,364	218,216	59,513	19,838	44	$2,509	92,459	42,027	8,405
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	60	$1,948	77,103	21,028	7,009	31	$824	39,837	18,108	3,622
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	135	$4,381	212,016	41,356	14,134	50	$1,330	78,525	26,175	5,235
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	60	$1,948	169,018	42,255	14,085	8	$213	22,536	9,390	1,878
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	55	$1,786	60,919	12,184	4,061	3	$80	3,323	1,108	222
Appliance Recycling	Incentives for appliance recycling.	235	$17,971	2,522,079	828,768	280,231	20	$1,226	152,949	84,972	16,994
Efficient Television	Rebate for efficient television.	55	$2,854	109,108	25,624	9,092	3	$126	5,951	2,480	496
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	32	$20,760	1,058,016	100,291	35,267	4	$2,021	132,252	22,042	4,408
Advanced Lighting Package		5	$1,299	42,982	6,447	2,149					
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	21	$957	212,879	81,097	23,653					
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.	133	$37,494	1,800,495	179,829	60,769	3	$445	93,469	15,578	3,116
Residential Total		**12,523**	**$519,748**	**44,699,388**	**8,741,835**	**2,985,441**	**14,687**	**$106,941**	**13,123,676**	**6,489,543**	**1,302,398**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
Change a Light Rebate Program	Rebate for compact florescent light bulbs.	768	$1,996	414,404	358,376	115,112					
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	1,276	$22,262	1,531,891	834,732	294,880	677	$9,701	1,104,571	862,946	172,589
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	20	$9,121	851,703	149,048	42,585					
Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	20	$1,042								
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.	32	$3,801	168,859	40,016	14,072					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	22	$1,045	86,995	20,101	7,250					
Efficient Livestock Waterers	Rebate for efficient livestock waterer.	5	$325	47,346	11,837	3,946					
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		5	$82,217	6,697,440	1,519,245	506,415					
Ag, Commercial and Industrial Total		**2,200**	**$129,929**	**11,687,768**	**3,326,723**	**1,115,659**	**677**	**$9,701**	**1,104,571**	**862,946**	**172,589**
II. Demand Response Programs											
Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price	25	$7,500								
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	5	$5,000				1	$4,085			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	5	$5,000				1	$69			
Energy Audit Services - Residential *	Energy Audit Services - Residential						19	$7,094			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	14,690	$151,701				2,393	$37,380			
Peak Alert	Peak Alert	14,690	$856								
Living with Energy in Iowa	Living with Energy in Iowa magazine.						165	$465			
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		$28,845				2,393	$6,155			
TOTAL		**44,138**	**$848,579**	**56,387,155**	**12,068,558**	**4,101,100**	**20,336**	**$171,889**	**14,228,247**	**7,352,489**	**1,474,987**
Percentage of 5 year plan goal achieved								**20%**	**25%**		**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				
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
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
T8 or better Lighting Fixtures	249	$2,866	140,005	8,537	2					
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**
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**
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	17	$45,000	4,482,704	224,135	7	19	$49,968	5,010,080	250,504	8
Air Source Heat Pump	9	$6,275	1,052,792	70,186	3	9	$6,234	1,052,792	70,186	3
Heat Recovery Ventilators										
Residential Contractor Rebates	28	$5,600				31	$6,200			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,109	$2,899	526,414	72,112	67	1,054	$2,738	500,307	68,535	63
Local CFL Rebate Program(s)	860	$2,248	408,220	55,921	52	817	$2,122	387,809	53,125	49
T8 or better Lighting Fixtures	274	$3,135	154,193	9,402	2	307	$3,488	172,683	10,529	2
ENERGY STAR Ceiling Fan	2	$39	5,991	333	0	2	$39	5,991	333	0
CFL Recycling										
Exterior Lighting										
High Efficiency Exterior Lighting										
Residential Water Heating (low income included)										
High Efficiency Water Heater	59	$8,497	227,672	15,178	2	60	$8,571	231,110	15,407	2
Heat Pump Water Heater - (Integrated)	3	$1,961	68,837	5,736	1	4	$2,597	91,783	7,649	1
Flow Restrictors - Faucet	34	$1,333	112,639	12,515	1	39	$1,519	129,204	14,356	1
Flow Restrictors - Shower	34	$2,222	213,587	21,359	2	39	$2,532	244,997	24,500	2
Tank Insulation	3	$59	5,092	509	0	3	$58	5,092	509	0
Pipe Insulation	3	$59	5,307	354	0	3	$58	5,307	354	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	18	$1,281	43,643	3,968	1	18	$1,273	43,643	3,968	1
ENERGY STAR Qualified Dishwasher	12	$392	15,421	1,402	1	12	$390	15,421	1,402	1
ENERGY STAR Qualified Refrigerator	26	$850	40,833	2,722	0	27	$877	42,403	2,827	0
ENERGY STAR Qualified Dehumidifier	12	$392	33,804	2,817	0	12	$390	33,804	2,817	0
ENERGY STAR Qualified Freezer	11	$359	12,184	812	0	11	$357	12,184	812	0
Appliance Recycling	46	$3,518	493,683	54,854	9	47	$3,594	504,416	56,046	9
Efficient Television	10	$523	19,838	1,653	0	11	$571	21,822	1,818	0
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	6	$3,922	198,378	6,613	1	7	$4,545	231,441	7,715	1
Advanced Lighting Package	1	$261	8,596	430	0	1	$260	8,596	430	0
Additional Low Income										
Energy Efficiency Kits	6	$275	60,823	6,758	1	5	$227	50,686	5,632	1
Weatherization Rebates	2	$392	9,291	310	0	2	$390	9,291	310	0
Building Shell - Existing Home Only										
Weatherization Rebates	25	$7,265	352,666	11,906	3	27	$7,573	361,957	12,216	3
Residential Total	**2,610**	**$98,757**	**8,552,606**	**581,984**	**153**	**2,567**	**$106,572**	**9,172,817**	**611,978**	**149**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	166	$434	89,572	24,881	10	158	$410	85,255	23,682	9
High Efficiency Interior Lighting	240	$4,176	286,839	55,386	1	270	$4,791	326,370	62,521	1
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	1	$1,558	370,239	24,683	2
Agricultural										
Livestock Ventilation Fans	6	$718	31,661	2,638	1	7	$832	36,938	3,078	1
Circulating Fans --- BESS Lab Ratings	4	$192	15,817	1,318	0	5	$238	19,772	1,648	1
Efficient Livestock Waterers	1	$65	9,469	789		1	$65	9,469	789	
Hog Farrowing - Heat Lamps (<= 175W)	8	$31	5,325	1,331		9	$35	5,991	1,498	
Hog Farrowing - Single Crate Heating Pads (<=85W)	1	$33	1,995	199		1	$32	1,995	199	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$16,550	1,339,488	101,283	10	1	$16,442	1,339,488	101,283	10
Ag, Commercial and Industrial Total	**428**	**$23,767**	**2,150,406**	**212,509**	**24**	**453**	**$24,404**	**2,195,517**	**219,381**	**24**
II. Demand Response Programs										
Commercial and Industrial Time-of-Day Price	5	$1,500				5	$1,500			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$1,000				1	$1,000			
Expert Energy Services - C&I	1	$1,000				1	$1,000			
Energy Audit Services - Residential *										
IV. Educational & Research Programs										
Member Information and Education	2,908	$29,433				2,938	$30,312			
Peak Alert	2,908	$168				2,938	$165			
Living with Energy in Iowa										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$5,769					$5,769			
TOTAL	**8,861**	**$161,393**	**10,703,012**	**794,493**	**177**	**8,903**	**$170,723**	**11,368,334**	**831,359**	**174**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	20	$52,258	5,273,769	263,688	9	21	$54,519	5,537,457	276,873	9
Air Source Heat Pump	9	$6,194	1,052,792	70,186	3	9	$6,154	1,052,792	70,186	3
Heat Recovery Ventilators										
Residential Contractor Rebates	33	$6,600				35	$7,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	970	$2,503	460,434	63,073	58	892	$2,287	423,410	58,001	54
Local CFL Rebate Program(s)	752	$1,941	356,955	48,898	45	692	$1,774	328,475	44,997	42
T8 or better Lighting Fixtures	331	$3,737	186,185	11,353	3	341	$3,826	191,860	11,699	3
ENERGY STAR Ceiling Fan	2	$39	5,991	333	0	2	$38	5,991	333	0
CFL Recycling										
Exterior Lighting										
High Efficiency Exterior Lighting										
Residential Water Heating (low income included)										
High Efficiency Water Heater	61	$8,645	234,549	15,637	2	62	$8,718	237,987	15,866	2
Heat Pump Water Heater - (Integrated)	5	$3,226	114,729	9,561	1	7	$4,487	160,620	13,385	1
Flow Restrictors - Faucet	41	$1,587	135,829	15,092	1	42	$1,615	139,142	15,460	1
Flow Restrictors - Shower	41	$2,645	257,561	25,756	2	42	$2,692	263,843	26,384	2
Tank Insulation	3	$58	5,092	509	0	3	$58	5,092	509	0
Pipe Insulation	3	$58	5,307	354	0	3	$58	5,307	354	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	18	$1,265	43,643	3,968	1	18	$1,256	43,643	3,968	1
ENERGY STAR Qualified Dishwasher	12	$387	15,421	1,402	1	12	$385	15,421	1,402	1
ENERGY STAR Qualified Refrigerator	28	$903	43,974	2,932	0	29	$929	45,544	3,036	0
ENERGY STAR Qualified Dehumidifier	12	$387	33,804	2,817	0	12	$385	33,804	2,817	0
ENERGY STAR Qualified Freezer	11	$355	12,184	812	0	11	$353	12,184	812	0
Appliance Recycling	48	$3,671	515,148	57,239	9	49	$3,747	525,880	58,431	9
Efficient Television	12	$619	23,805	1,984	0	13	$667	25,789	2,149	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	7	$4,516	231,441	7,715	1	7	$4,487	231,441	7,715	1
Advanced Lighting Package	1	$258	8,596	430	0	1	$256	8,596	430	0
Additional Low Income										
Energy Efficiency Kits	3	$135	30,411	3,379	0	2	$90	20,274	2,253	0
Weatherization Rebates	2	$387	9,291	310	0	2	$385	9,291	310	0
Building Shell - Existing Home Only										
Weatherization Rebates	29	$7,877	371,248	12,525	3	29	$7,827	371,248	12,525	3
Residential Total	**2,454**	**$110,252**	**9,428,158**	**619,951**	**142**	**2,336**	**$113,993**	**9,695,091**	**629,894**	**135**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	145	$374	78,240	21,733	9	133	$341	71,765	19,935	8
High Efficiency Interior Lighting	283	$4,988	342,637	65,606	1	283	$4,956	342,637	65,606	1
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	10	$4,516	425,851	21,293	1					
Commercial Contractor Rebate (GS & AS)	10	$516								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,548	370,239	24,683	2	1	$1,538	370,239	24,683	2
Agricultural										
Livestock Ventilation Fans	7	$827	36,938	3,078	1	7	$822	36,938	3,078	1
Circulating Fans --- BESS Lab Ratings	5	$236	19,772	1,648	1	5	$235	19,772	1,648	1
Efficient Livestock Waterers	1	$65	9,469	789		1	$64	9,469	789	
Hog Farrowing - Heat Lamps (<= 175W)	9	$35	5,991	1,498		9	$35	5,991	1,498	
Hog Farrowing - Single Crate Heating Pads (<=85W)	1	$32	1,995	199		1	$32	1,995	199	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$16,336	1,339,488	101,283	10	1	$16,231	1,339,488	101,283	10
Ag, Commercial and Industrial Total	**473**	**$29,474**	**2,630,621**	**241,810**	**25**	**441**	**$24,254**	**2,198,295**	**218,718**	**23**
II. Demand Response Programs										
Commercial and Industrial Time-of-Day Price	5	$1,500				5	$1,500			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$1,000				1	$1,000			
Expert Energy Services - C&I	1	$1,000				1	$1,000			
Energy Audit Services - Residential *										
IV. Educational & Research Programs										
Member Information and Education	2,968	$31,219				2,998	$32,157			
Peak Alert	2,968	$170				2,998	$180			
Living with Energy in Iowa										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$5,769					$5,769			
TOTAL	**8,870**	**$180,384**	**12,058,779**	**861,761**	**166**	**8,780**	**$179,853**	**11,893,385**	**848,613**	**157**
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. In 2010, Pleasant Hill provided all member-consumers who attended 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 14. 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 will allow us to replace our AMI meters with Smart 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.

Several of our programs have exceeded our expectations. The Pull the Plug program was more popular than anticipated. We also had a good response to 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.

Prairie Energy Cooperative’s five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	6	1,716	27,972	9,990	1,998
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	75	$135,525	19,918,395	2,987,759	995,920	18	$35,555	4,780,415	1,195,104	239,021
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	23	$19,426	2,709,754	903,251	180,650
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	25	$4,065	313,020	46,953	15,651	1	$170	12,521	3,130	626
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	1,330	$2,566	635,842	435,509	87,102
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	2,741	$10,690	1,310,409	537,345	179,508	6,157	$18,206	2,943,520	2,016,110	403,222
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	225	$1,755	155,644	26,363	9,491	20	$161	13,835	4,218	844
ENERGY STAR LED lighting	Rebate for LED lighting.							$1			
CFL Recycling	Recycling of compact florescent light bulbs.	100	$1,200				35	$149			
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	63	$2,108	63,077	71,678	14,336
LED Holiday Lighting	Rebate for holiday lighting.	120	$312	111,888	26,030	9,324		$9			
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	33	$9,484	164,236	54,745	10,949
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	10	$3,900	192,585	50,072	19,259		$3			
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.						1	$471	23,110	9,629	1,926
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	750	$6,535	2,502,495	834,165	278,055	107	$356	357,023	198,346	39,669
Flow Restrictors - Shower	Incentive for low-flow shower head.	375	$6,535	2,372,625	711,788	237,263	74	$368	468,198	234,099	46,820
Pipe Insulation	Incentive for water pipe insulation.	375	$2,438	668,081	133,616	44,539	82		146,087	48,696	9,739
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	48	$3,196	117,216	53,280	10,656
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	200	$6,500	258,852	70,596	23,532	34	$1,126	44,005	20,002	4,000
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	175	$5,690	276,806	55,361	18,454	54	$1,788	85,415	28,472	5,694
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	25	$815	27,889	5,578	1,859	8	$267	8,924	2,975	595
Appliance Recycling	Incentives for appliance recycling.	260	$17,890	2,241,673	749,267	249,756	67	$5,265	528,611	298,779	59,756
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		$3			
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	150	$4,875	1,525,473	508,491	169,497	17	$890	172,887	96,048	19,210
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	125	$46,005	4,589,989	470,363	156,788	19	$5,256	554,850	95,565	19,113
Residential Total		**10,627**	**$458,847**	**62,121,145**	**12,458,265**	**4,278,652**	**8,233**	**$116,279**	**13,857,497**	**5,779,626**	**1,155,925**
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	148	$288	80,431	111,710	22,342
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	3,432	$19,599	2,838,183	3,833,613	766,723
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)						2	$67	2,230	2,276	455
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					
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	1	$130	3,463	1,154	231
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	19	$10,335	7,084,975	2,361,658	472,332
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**	**3,602**	**$30,419**	**10,009,282**	**6,310,411**	**1,262,082**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.							$58,929			
III. Energy Audit & Technical Support Programs											
Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	110	$79,200				30	$21,600			
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	220	$158,400				31	$54,193			
Energy Audit Services - Residential *	Energy Audit Services - Residential	415	$149,400				69	$25,265			
IV. Educational & Research Programs											
Model Housing Education	Model housing education.						3,258	$7,614			
Member Information and Education	Member Information and Education	16,444	$259,749				3,258	$69,554			
Peak Alert	Peak Alert	16,444					3,258				
Living with Energy in Iowa	Living with Energy in Iowa magazine.	16,444	$22,988				3,258	$10,150			
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				3,258	$19,027			
TOTAL		**87,854**	**$1,502,895**	**86,079,128**	**23,818,655**	**8,334,471**	**28,255**	**$413,029**	**23,866,780**	**12,090,037**	**2,418,007**
Percentage of 5 year plan goal achieved								**27%**	**28%**		**29%**

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

Prairie Energy 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	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 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
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
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**
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					
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
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**
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.

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	12	$2,490	52,820	3,773	4
Geothermal Heat Pump	15	$27,105	3,983,679	199,184	23	15	$27,105	3,983,679	199,184	23
Air Source Heat Pump	35	$22,750	4,123,539	274,903	36	40	$26,000	4,712,616	314,174	41
Heat Recovery Ventilators	5	$813	62,604	3,130		5	$813	62,604	3,130	
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	808	$1,842	386,286	52,916	48	900	$2,052	430,269	58,941	54
Local CFL Rebate Program(s)	550	$2,145	262,942	36,020	33	550	$2,145	262,942	36,020	33
T8 or better Lighting Fixtures	50	$390	34,588	2,109	1	50	$390	34,588	2,109	1
ENERGY STAR LED lighting										
CFL Recycling	15	$200				20	$200			
Exterior Lighting										
High Efficiency Exterior Lighting	5	$20	4,851	2,425	0	5	$20	4,851	2,425	0
LED Holiday Lighting	20	$52	18,648	1,554	5	25	$65	23,310	1,943	6
Residential Water Heating (low income included)										
High Efficiency Water Heater	45	$9,750	218,282	14,552	2	45	$9,750	218,282	14,552	2
Heat Pump Water Heater - (Add-On)	2	$780	38,517	3,852	0	2	$780	38,517	3,852	0
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	150	$1,307	500,499	55,611	3	150	$1,307	500,499	55,611	3
Flow Restrictors - Shower	75	$1,307	474,525	47,453	4	75	$1,307	474,525	47,453	4
Pipe Insulation	75	$488	133,616	8,908	2	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	25	$1,625	61,050	5,550	2
ENERGY STAR Qualified Dishwasher	40	$1,300	51,770	4,706	4	40	$1,300	51,770	4,706	4
ENERGY STAR Qualified Refrigerator	35	$1,138	55,361	3,691	0	35	$1,138	55,361	3,691	0
ENERGY STAR Qualified Freezer	5	$163	5,578	372	0	5	$163	5,578	372	0
Appliance Recycling	52	$3,578	448,335	49,951	9	52	$3,578	448,335	49,951	9
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,300	33,300	1,110	0	1	$1,300	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits	30	$975	305,095	33,899	4	30	$975	305,095	33,899	4
Building Shell - Existing Home Only										
Weatherization Rebates	25	$9,201	917,998	31,358	2	25	$9,201	917,998	31,358	2
Residential Total	**2,075**	**$90,719**	**12,173,882**	**837,025**	**182**	**2,182**	**$94,192**	**12,811,604**	**882,711**	**193**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	150	$342	81,518	22,644	9	150	$342	81,518	22,644	9
High Efficiency Interior Lighting	1,744	$26,053	2,569,394	475,995	8	2,012	$29,927	3,015,450	542,829	9
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	13	$2,535	19,264	1,284	1	14	$2,730	20,746	1,383	1
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	6	$1,560	33,267	2,218	0	7	$1,820	38,811	2,587	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	2	$1,250	21,379	1,425	0	2	$1,500	21,379	1,425	0
Variable Speed Drive Motor Incentive	2	$4,000	745,787	49,719	4	2	$4,500	745,787	49,719	4
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	15	$15,000	993,339	198,668	41	16	$16,250	1,059,562	211,912	43
Ag, Commercial and Industrial Total	**1,932**	**$50,740**	**4,463,948**	**751,953**	**63**	**2,203**	**$57,069**	**4,983,252**	**832,500**	**67**
II. Demand Response Programs										
Water Heater Load Control										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	21	$15,120				22	$15,840			
Expert Energy Services - C&I	42	$30,240				44	$31,680			
Energy Audit Services - Residential *	75	$27,000				85	$30,600			
IV. Educational & Research Programs										
Model Housing Education										
Member Information and Education	3,287	$50,393				3,290	$51,905			
Peak Alert	3,287					3,290				
Living with Energy in Iowa	3,287	$4,615				3,290	$4,519			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	3,287	$18,418				3,290	$18,418			
TOTAL	**17,293**	**$287,244**	**16,637,830**	**1,588,978**	**245**	**17,696**	**$304,222**	**17,794,857**	**1,715,211**	**260**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	12	$2,490	52,820	3,773	4
Geothermal Heat Pump	15	$27,105	3,983,679	199,184	23	15	$27,105	3,983,679	199,184	23
Air Source Heat Pump	40	$26,000	4,712,616	314,174	41	45	$29,250	5,301,693	353,446	46
Heat Recovery Ventilators	5	$813	62,604	3,130		5	$813	62,604	3,130	
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	900	$2,052	430,269	58,941	54	850	$1,938	406,365	55,667	51
Local CFL Rebate Program(s)	550	$2,145	262,942	36,020	33	550	$2,145	262,942	36,020	33
T8 or better Lighting Fixtures	50	$390	34,588	2,109	1	50	$390	34,588	2,109	1
ENERGY STAR LED lighting										
CFL Recycling	25	$300				30	$300			
Exterior Lighting										
High Efficiency Exterior Lighting	5	$20	4,851	2,425	0	10	$40	9,701	4,851	0
LED Holiday Lighting	25	$65	23,310	1,943	6	30	$78	27,972	2,331	8
Residential Water Heating (low income included)										
High Efficiency Water Heater	41	$8,840	198,185	13,212	2	41	$8,840	198,185	13,212	2
Heat Pump Water Heater - (Add-On)	2	$780	38,517	3,852	0	3	$1,170	57,776	5,778	1
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	150	$1,307	500,499	55,611	3	150	$1,307	500,499	55,611	3
Flow Restrictors - Shower	75	$1,307	474,525	47,453	4	75	$1,307	474,525	47,453	4
Pipe Insulation	75	$488	133,616	8,908	2	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	25	$1,625	61,050	5,550	2
ENERGY STAR Qualified Dishwasher	40	$1,300	51,770	4,706	4	40	$1,300	51,770	4,706	4
ENERGY STAR Qualified Refrigerator	35	$1,138	55,361	3,691	0	35	$1,138	55,361	3,691	0
ENERGY STAR Qualified Freezer	5	$163	5,578	372	0	5	$163	5,578	372	0
Appliance Recycling	52	$3,578	448,335	49,951	9	52	$3,578	448,335	49,951	9
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$1,300	33,300	1,110	0	1	$1,300	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits	30	$975	305,095	33,899	4	30	$975	305,095	33,899	4
Building Shell - Existing Home Only										
Weatherization Rebates	25	$9,201	917,998	31,358	2	25	$9,201	917,998	31,358	2
Residential Total	**2,183**	**$93,382**	**12,791,508**	**881,371**	**193**	**2,154**	**$96,941**	**13,385,452**	**922,108**	**197**
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	2,480	$36,663	3,383,900	636,269	10
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	16	$3,210	23,710	1,581	1	18	$3,510	26,673	1,778	1
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	8	$2,080	44,356	2,957	0	9	$2,340	49,900	3,327	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	2	$1,500	21,379	1,425	0	3	$1,875	32,068	2,138	0
Variable Speed Drive Motor Incentive	2	$4,500	745,787	49,719	4	3	$5,000	1,118,680	74,579	6
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	18	$17,500	1,192,007	238,401	49	19	$18,750	1,258,229	251,646	51
Ag, Commercial and Industrial Total	**2,295**	**$62,568**	**5,120,664**	**874,269**	**63**	**2,532**	**$68,138**	**5,869,451**	**969,736**	**69**
II. Demand Response Programs										
Water Heater Load Control										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	23	$16,560				24	$17,280			
Expert Energy Services - C&I	46	$33,120				48	$34,560			
Energy Audit Services - Residential *	90	$32,400				100	$36,000			
IV. Educational & Research Programs										
Model Housing Education										
Member Information and Education	3,289	$53,462				3,289	$55,066			
Peak Alert	3,289					3,289				
Living with Energy in Iowa	3,289	$4,618				3,289	$4,618			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	3,289	$18,418				3,289	$18,418			
TOTAL	**17,793**	**$314,527**	**17,912,172**	**1,755,640**	**256**	**18,014**	**$331,020**	**19,254,903**	**1,891,844**	**266**
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 14. 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.

Raccoon Valley Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	8	1,313	35,820	12,793	2,559
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	51	$88,613	13,544,509	1,965,282	677,225	22	$30,272	5,842,729	1,460,682	292,136
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	7	$4,773	824,708	274,903	54,981
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	15	$2,350	187,812	28,172	9,391		$6			
Residential Contractor Rebates	Incentive for heat pump installs						1	$222			
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	757	$2,041	361,904	247,880	49,576
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	2,671	$10,018	1,276,944	468,123	174,924	5,304	$15,246	2,535,720	1,736,795	347,359
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	435	$3,265	300,912	48,971	18,348	157	$947	134,819	41,103	8,221
ENERGY STAR LED lighting	Rebate for LED lighting.	220	$826	294,505	38,970	16,361	150	$451	200,799	55,778	11,156
Exterior Lighting											
LED Holiday Lighting	Rebate for holiday lighting.	455	$1,139	424,242	99,068	35,354		$155			
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	37	$22,024	176,007	58,669	11,734
Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	22	$8,250	423,687	111,699	42,369		$3			
Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.						1	$303	23,110	9,629	1,926
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	742	$6,219	2,475,802	823,414	275,089	78	$405	260,259	144,589	28,918
Flow Restrictors - Shower	Incentive for low-flow shower head.	404	$6,772	2,556,108	765,567	255,611	39	$405	246,753	123,377	24,675
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	54	$8,769	131,868	59,940	11,988
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	172	$5,375	222,613	53,771	20,238	39	$2,440	50,476	22,944	4,589
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	135	$4,219	213,536	37,857	14,236	53	$7,202	83,833	27,944	5,589
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.						5	$74	14,186	5,911	1,182
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	202	$7,643	225,341	40,011	15,023	11	$1,095	12,271	4,090	818
Appliance Recycling	Incentives for appliance recycling.	320	$17,600	2,796,567	934,232	311,411	34	$1,995	286,130	160,323	32,065
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		$4			
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	425	$10,313	4,322,174	1,384,226	480,242		$14			
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	286	$101,723	9,092,781	811,626	321,051	6	$2,644	190,343	31,724	6,345
Residential Total		**13,061**	**$444,403**	**57,947,849**	**11,938,399**	**4,169,586**	**6,763**	**$102,803**	**11,411,736**	**4,479,072**	**895,814**
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					
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					
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 Custom Rebates											
Custom Rebate Program		5	$1,250	82,778	49,667	16,556	1	$3,820	70,036,200	23,345,400	4,669,080
Ag, Commercial and Industrial Total		**266**	**$22,800**	**1,235,046**	**381,879**	**141,202**	**17**	**$8,708**	**70,255,048**	**23,401,289**	**4,680,258**
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								
Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	10	$1,500					$13,929			
Energy Audit Services - Residential *	Energy Audit Services - Residential	115	$11,500								
IV. Educational & Research Programs											
Model Housing Education	Model housing education.	75	$3,750					$896			
Member Information and Education	Member Information and Education	10,335	$144,706				2,035	$27,850			
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				2,035	$17,282			
TOTAL		**44,878**	**$786,629**	**59,182,896**	**12,320,277**	**4,310,788**	**12,885**	**$172,433**	**81,666,783**	**27,880,361**	**5,576,072**
Percentage of 5 year plan goal achieved								**22%**	**138%**		**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				
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
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										
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
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**
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 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**
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.

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	$1,813	32,556	2,325	3
Geothermal Heat Pump	10	$17,375	2,655,786	132,789	15	10	$17,375	2,655,786	132,789	15
Air Source Heat Pump	24	$15,000	2,827,570	188,505	24	25	$15,625	2,945,385	196,359	26
Heat Recovery Ventilators	3	$470	37,562	1,878		3	$470	37,562	1,878	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	979	$2,144	468,037	64,115	59	1,178	$2,580	563,175	77,147	71
Local CFL Rebate Program(s)	448	$1,680	214,178	29,340	27	534	$2,003	255,293	34,972	32
T8 or better Lighting Fixtures	73	$548	50,498	3,079	1	87	$653	60,182	3,670	1
ENERGY STAR LED lighting	30	$112	40,160	2,231	1	44	$165	58,901	3,272	2
Exterior Lighting										
LED Holiday Lighting	82	$205	76,457	6,371	21	91	$228	84,848	7,071	23
Residential Water Heating (low income included)										
High Efficiency Water Heater	68	$13,250	314,585	20,972	3	68	$13,250	314,585	20,972	3
Heat Pump Water Heater - (Add-On)	3	$1,125	57,776	5,778	1	5	$1,875	96,293	9,629	1
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	148	$1,240	493,826	54,870	3	149	$1,249	497,162	55,240	3
Flow Restrictors - Shower	81	$1,358	512,487	51,249	4	81	$1,358	512,487	51,249	4
Tank Insulation	13	$81	22,222	2,222	0	13	$81	22,222	2,222	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	5	$325	12,210	1,110	0	6	$390	14,652	1,332	0
ENERGY STAR Qualified Dishwasher	29	$907	37,534	3,412	3	35	$1,094	45,299	4,118	3
ENERGY STAR Qualified Refrigerator	22	$688	34,799	2,320	0	27	$844	42,707	2,847	0
ENERGY STAR Qualified Dehumidifier										
ENERGY STAR Qualified Freezer	33	$1,031	36,813	2,454	0	41	$1,899	45,738	3,049	0
Appliance Recycling	64	$3,520	559,313	62,282	11	64	$3,520	559,313	62,282	11
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	1	$100	33,300	1,110	0	1	$100	33,300	1,110	0
Additional Low Income										
Energy Efficiency Kits	80	$2,500	813,586	90,398	10	85	$2,656	864,435	96,048	11
Building Shell - Existing Home Only										
Weatherization Rebates	46	$16,142	1,405,210	49,676	3	56	$20,135	1,820,472	64,148	3
Residential Total	**2,249**	**$80,989**	**10,730,839**	**778,084**	**188**	**2,611**	**$89,361**	**11,562,355**	**833,731**	**212**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	15	$33	8,152	2,264	1	18	$39	9,782	2,717	1
High Efficiency Interior Lighting	20	$150	101,026	13,120	0	25	$188	126,282	16,400	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0	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	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	7	$1,125	28,405	1,894	0
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$250	16,556	3,311	1	1	$250	16,556	3,311	1
Ag, Commercial and Industrial Total	**46**	**$4,545**	**223,846**	**24,947**	**2**	**54**	**$4,589**	**250,733**	**28,680**	**3**
II. Demand Response Programs										
Water Heater Load Control	60	$15,000			30	65	$16,250			33
Industrial Interruptible Price	1	$325				1	$325			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$500				3	$500			
Expert Energy Services - C&I	2	$300				2	$300			
Energy Audit Services - Residential *	20	$2,000				23	$2,300			
IV. Educational & Research Programs										
Model Housing Education	15	$750				15	$750			
Member Information and Education	2,065	$20,656				2,067	$31,005			
Peak Alert	2,065	$2,065				2,067	$2,067			
Living with Energy in Iowa										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,065	$12,390				2,067	$12,402			
TOTAL	**8,591**	**$139,521**	**10,954,685**	**803,032**	**221**	**8,975**	**$159,849**	**11,813,087**	**862,411**	**247**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	12	$2,063	46,760	3,340	4
Geothermal Heat Pump	11	$19,113	2,921,365	146,068	17	11	$19,113	2,921,365	146,068	17
Air Source Heat Pump	25	$15,625	2,945,385	196,359	26	26	$16,250	3,063,200	204,213	27
Heat Recovery Ventilators	3	$470	37,562	1,878		3	$470	37,562	1,878	
Residential Contractor Rebates										
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,381	$3,024	660,224	90,442	83	1,579	$3,458	754,884	103,409	95
Local CFL Rebate Program(s)	621	$2,329	296,886	40,669	37	707	$2,652	338,000	46,301	42
T8 or better Lighting Fixtures	101	$758	69,867	4,260	1	116	$871	80,243	4,893	1
ENERGY STAR LED lighting	58	$218	77,642	4,313	2	71	$267	95,045	5,280	3
Exterior Lighting										
LED Holiday Lighting	100	$251	93,240	7,770	25	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	68	$13,250	314,585	20,972	3
Heat Pump Water Heater - (Add-On)	5	$1,875	96,293	9,629	1	6	$2,250	115,551	11,555	1
Heat Pump Water Heater - (Integrated)										
Flow Restrictors - Faucet	149	$1,249	497,162	55,240	3	149	$1,249	497,162	55,240	3
Flow Restrictors - Shower	81	$1,358	512,487	51,249	4	81	$1,358	512,487	51,249	4
Tank Insulation	13	$81	22,222	2,222	0	13	$81	22,222	2,222	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	6	$390	14,652	1,332	0	8	$520	19,536	1,776	1
ENERGY STAR Qualified Dishwasher	40	$1,250	51,770	4,706	4	46	$1,437	59,536	5,412	4
ENERGY STAR Qualified Refrigerator	32	$1,000	50,616	3,374	0	36	$1,125	56,943	3,796	0
ENERGY STAR Qualified Dehumidifier										
ENERGY STAR Qualified Freezer	47	$2,181	52,431	3,495	0	54	$1,688	60,240	4,016	1
Appliance Recycling	64	$3,520	559,313	62,282	11	64	$3,520	559,313	62,282	11
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	2	$1,350	66,600	2,220	0	2	$1,350	66,600	2,220	0
Additional Low Income										
Energy Efficiency Kits	90	$2,813	915,284	101,698	12	95		966,133	107,348	12
Building Shell - Existing Home Only										
Weatherization Rebates	70	$25,167	2,275,633	80,265	4	84	$29,686	2,650,774	93,715	5
Residential Total	**2,979**	**$99,333**	**12,577,980**	**893,786**	**237**	**3,340**	**$102,927**	**13,339,774**	**945,657**	**261**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	21	$46	11,413	3,170	1	24	$53	13,043	3,623	1
High Efficiency Interior Lighting	30	$225	151,538	19,680	0	35	$263	176,795	22,960	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,738	17,360	868	0	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	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	7	$1,125	28,405	1,894	0
Ag/Commercial & Industrial Appliances										
Commercial ENERGY STAR Refrigerators and Freezers										
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$250	16,556	3,311	1	1	$250	16,556	3,311	1
Ag, Commercial and Industrial Total	**62**	**$4,633**	**277,619**	**32,413**	**3**	**70**	**$4,678**	**304,506**	**36,146**	**3**
II. Demand Response Programs										
Water Heater Load Control	70	$17,500			35	75	$18,750			38
Industrial Interruptible Price	1	$325				1	$325			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$500				3	$500			
Expert Energy Services - C&I	2	$300				2	$300			
Energy Audit Services - Residential *	26	$2,600				29	$2,900			
IV. Educational & Research Programs										
Model Housing Education	15	$750				15	$750			
Member Information and Education	2,069	$31,035				2,071	$31,065			
Peak Alert	2,069	$2,069				2,071	$2,071			
Living with Energy in Iowa										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	2,069	$12,414				2,071	$12,426			
TOTAL	**9,365**	**$171,459**	**12,855,600**	**926,200**	**275**	**9,748**	**$176,692**	**13,644,280**	**981,803**	**301**
Percentage of 5 year plan goal achieved										

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

Southern Iowa Electric
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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 14. 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, 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. Upon completion of the energy audit, member-consumers are eligible for a weatherization rebate program also.

Southern Iowa Electric Cooperative also ran a special CFL Program in December 2010, in which member-consumers were given CFL bulbs in exchange for donated items for care packages. Southern Iowa Electric Cooperative mailed these care packages to our local soldiers who were serving overseas. A total of 1,204 CFL bulbs were given to our member-consumers during this 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.

Southern Iowa Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs. This includes the review of appliance efficiency minimum federal standards (such as SEER etc.) and also marketplace changes (market transformation of compact fluorescent light bulbs (CFLs).

Thank you.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	20	6,734	84,475	30,170	6,034
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	4	$491	3,556	1,976	395
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	60	$208,500	15,934,716	2,390,207	796,736	17	$69,233	4,514,836	1,128,709	225,742
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	15	$36,569	1,767,231	353,446	117,815	7	$3,390	824,708	274,903	54,981
Residential Lighting (low income included)											
Interior Lighting											
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	2,000	$53,616	956,154	425,685	130,980	5,295	$12,737	2,531,418	1,733,848	346,770
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	425	$100,938	425,519	290,126	96,709					
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	57	$13,503	182,384	60,795	12,159
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	70	$4,134	233,566	77,855	25,952					
Flow Restrictors - Shower	Incentive for low-flow shower head.	70	$9,569	442,890	132,867	44,289	29	$510	183,483	91,742	18,348
Tank Insulation	Incentive for water heater tank insulation.	70	$5,367	119,658	35,897	11,966	29	$1,021	49,573	24,786	4,957
Pipe Insulation	Incentive for water pipe insulation.	70	$2,155	124,709	24,942	8,314	29	$119	51,665	17,222	3,444
Residential Appliances (low income included)											
ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	150	$22,964	366,300	99,900	33,300	44	$8,487	78,974	35,897	7,179
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	75	$5,827	97,070	26,474	8,825	21	$2,766	27,179	12,354	2,471
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	120	$18,000	1,220,378	406,793	135,598					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	150	$114,354	6,655,838	688,311	229,437	13	$5,747	210,822	39,683	7,937
Residential Total		**3,825**	**$748,218**	**30,325,100**	**5,363,509**	**1,776,921**	**5,565**	**$124,739**	**8,743,074**	**3,452,083**	**690,417**
Agriculture/Commercial & Industrial Lighting											
Interior Lighting											
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	25	$10,163	24,954	11,926	5,146	80	$6,252	450,598	292,596	58,519
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	7	$10,296	121,523	13,888	6,076					
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.	4	$10,179	588,411	98,069	39,227					
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	4	$932	21,259	4,429	1,772					
Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	14	$72,454	4,195,800	639,360	279,720					
Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	4	$4,255	221,445	36,908	14,763					
Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	4	$14,656	888,173	130,614	52,245					
Ag/Commercial & Industrial Custom Rebates											
Custom Rebate Program		4	$47,706	1,776,000	444,000	177,600					
Ag, Commercial and Industrial Total		**70**	**$175,744**	**8,126,275**	**1,427,311**	**595,797**	**80**	**$6,252**	**450,598**	**292,596**	**58,519**
II. Demand Response Programs											
Residential Time-of-Day Price	Residential time of day price.	40	$9,000								
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.	25	$75,000								
Energy Audit Services - Residential *	Energy Audit Services - Residential	218	$21,800				29	$11,598			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	5,000	$50,000				3,819	$21,143			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	22,000	$52,500				3,819	$20,497			
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	22,000	$88,580				3,819	$9,644			
TOTAL		**53,183**	**$1,221,842**	**38,451,375**	**6,790,820**	**2,372,718**	**17,131**	**$193,873**	**9,193,672**	**3,744,679**	**748,936**
Percentage of 5 year plan goal achieved								**16%**	**24%**		**32%**

* 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**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
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**
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.

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	30	$7,500	124,087	8,863	9
ENERGY STAR Qualified Room Air Conditioner	10	$639	8,891	988	1	10	$639	8,891	988	1
Geothermal Heat Pump	12	$41,700	3,186,943	159,347	18	12	$41,700	3,186,943	159,347	18
Air Source Heat Pump	3	$7,314	353,446	23,563	3	3	$7,314	353,446	23,563	3
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	750	$21,119	358,558	49,118	45	500	$12,729	239,039	32,745	30
Exterior Lighting										
High Efficiency Exterior Lighting	85	$20,188	85,104	19,342		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	70	$25,106	263,237	17,549	2
Flow Restrictors - Faucet	14	$827	46,713	5,190	0	14	$827	46,713	5,190	0
Flow Restrictors - Shower	14	$1,914	88,578	8,858	1	14	$1,914	88,578	8,858	1
Tank Insulation	14	$1,073	23,932	2,393	0	14	$1,073	23,932	2,393	0
Pipe Insulation	14	$431	24,942	1,663	0	14	$431	24,942	1,663	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	30	$4,593	73,260	6,660	2	30	$4,593	73,260	6,660	2
ENERGY STAR Qualified Dishwasher	15	$1,165	19,414	1,765	1	15	$1,165	19,414	1,765	1
Additional Low Income										
Energy Efficiency Kits	24	$3,600	244,076	27,120	3	24	$3,600	244,076	27,120	3
Building Shell - Existing Home Only										
Weatherization Rebates	30	$22,871	1,331,168	45,887	3	30	$22,871	1,331,168	45,887	3
Residential Total	**1,115**	**$160,039**	**6,232,347**	**378,306**	**89**	**865**	**$151,649**	**6,112,828**	**361,933**	**74**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	4	$1,463	3,778	817	0	7	$2,900	7,059	1,443	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,471	17,360	868	0	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	1	$1,276	72,178	4,812	1
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5	1	$2,545	147,103	9,807	5
Livestock Ventilation Fans	1	$233	5,315	443	0	1	$233	5,315	443	0
Circulating Fans --- BESS Lab Ratings	2	$10,351	599,400	39,960	8	4	$20,701	1,198,800	79,920	16
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0	1	$1,064	55,361	3,691	0
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1	1	$3,664	222,043	13,061	1
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12	1	$11,926	444,000	44,400	12
Ag, Commercial and Industrial Total	**13**	**$33,992**	**1,566,538**	**117,859**	**28**	**19**	**$47,251**	**2,186,579**	**159,313**	**36**
II. Demand Response Programs										
Residential Time-of-Day Price	10	$2,250				10	$2,250			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200				1	$200			
Expert Energy Services - C&I	5	$15,000				5	$15,000			
Energy Audit Services - Residential *	40	$4,000				50	$5,000			
IV. Educational & Research Programs										
Member Information and Education	1,000	$10,000				1,000	$10,000			
Living with Energy in Iowa	4,400	$10,500				4,400	$10,500			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,400	$17,716				4,400	$17,716			
TOTAL	**10,984**	**$253,697**	**7,798,885**	**496,164**	**117**	**10,750**	**$259,566**	**8,299,407**	**521,246**	**111**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	30	$7,500	124,087	8,863	9
ENERGY STAR Qualified Room Air Conditioner	10	$639	8,891	988	1	10	$639	8,891	988	1
Geothermal Heat Pump	12	$41,700	3,186,943	159,347	18	12	$41,700	3,186,943	159,347	18
Air Source Heat Pump	3	$7,314	353,446	23,563	3	3	$7,314	353,446	23,563	3
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	250	$6,365	119,519	16,373	15	250	$6,365	119,519	16,373	15
Exterior Lighting										
High Efficiency Exterior Lighting	85	$20,188	85,104	19,342		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	70	$25,106	263,237	17,549	2
Flow Restrictors - Faucet	14	$827	46,713	5,190	0	14	$827	46,713	5,190	0
Flow Restrictors - Shower	14	$1,914	88,578	8,858	1	14	$1,914	88,578	8,858	1
Tank Insulation	14	$1,073	23,932	2,393	0	14	$1,073	23,932	2,393	0
Pipe Insulation	14	$431	24,942	1,663	0	14	$431	24,942	1,663	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	30	$4,593	73,260	6,660	2	30	$4,593	73,260	6,660	2
ENERGY STAR Qualified Dishwasher	15	$1,165	19,414	1,765	1	15	$1,165	19,414	1,765	1
Additional Low Income										
Energy Efficiency Kits	24	$3,600	244,076	27,120	3	24	$3,600	244,076	27,120	3
Building Shell - Existing Home Only										
Weatherization Rebates	30	$22,871	1,331,168	45,887	3	30	$22,871	1,331,168	45,887	3
Residential Total	**615**	**$145,285**	**5,993,308**	**345,561**	**59**	**615**	**$145,285**	**5,993,308**	**345,561**	**59**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	7	$2,900	7,059	1,443	0	7	$2,900	7,059	1,443	0
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	2	$2,942	34,721	1,736	0	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	1	$1,276	72,178	4,812	1
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5	1	$2,545	147,103	9,807	5
Livestock Ventilation Fans	1	$233	5,315	443	0	1	$233	5,315	443	0
Circulating Fans --- BESS Lab Ratings	4	$20,701	1,198,800	79,920	16	4	$20,701	1,198,800	79,920	16
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0	1	$1,064	55,361	3,691	0
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1	1	$3,664	222,043	13,061	1
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	1	$11,926	444,000	44,400	12	1	$11,926	444,000	44,400	12
Ag, Commercial and Industrial Total	**19**	**$47,251**	**2,186,579**	**159,313**	**36**	**19**	**$47,251**	**2,186,579**	**159,313**	**36**
II. Demand Response Programs										
Residential Time-of-Day Price	10	$2,250				10	$2,250			
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200				1	$200			
Expert Energy Services - C&I	5	$15,000				5	$15,000			
Energy Audit Services - Residential *	50	$5,000				50	$5,000			
IV. Educational & Research Programs										
Member Information and Education	1,000	$10,000				1,000	$10,000			
Living with Energy in Iowa	4,400	$10,500				4,400	$10,500			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	4,400	$17,716				4,400	$17,716			
TOTAL	**10,500**	**$253,201**	**8,179,888**	**504,874**	**96**	**10,500**	**$253,201**	**8,179,888**	**504,874**	**96**
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 14. 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.

Southwest Iowa Rural Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	15	3,238	63,307	22,610	4,522
ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	5	$162	4,414	1,471	490	8	$288	7,062	3,923	785
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	227	$463,905	59,857,277	8,530,321	2,992,864	40	$54,761	10,547,538	2,636,884	527,377
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	285	$265,691	33,338,415	6,371,341	2,222,561	27	$24,516	3,158,376	1,052,792	210,558
Heat Recovery Ventilators	Rebate for heat recovery ventilators.	10	$1,624	124,317	18,648	6,216	3	$746	37,295	9,324	1,865
Residential Contractor Rebates	Incentive for heat pump installs	512	$102,400				66	$13,403			
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	2,717	$4,126	1,442,787	988,211	197,642
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	500	$1,298	237,337	97,536	32,512	2,809	$6,545	1,333,361	913,261	182,652
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	5	$97	14,978	2,496	832					
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	24	$872	28,630	28,630	6,507
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	495	$66,222	1,765,234	348,462	117,682	93	$18,152	336,317	112,106	22,421
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					
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	68	$5,846	142,891	64,950	12,990
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	150	$4,868	192,757	51,402	17,523	42	$1,542	53,972	24,533	4,907
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	301	$9,771	472,718	93,287	31,515	65	$2,387	102,082	34,027	6,805
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	155	$5,031	436,630	106,810	36,386	8	$272	22,536	9,390	1,878
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	135	$4,381	149,527	29,167	9,968	6	$220	6,646	2,215	443
Appliance Recycling	Incentives for appliance recycling.	550	$42,059	5,902,737	1,931,805	655,860	32	$2,234	242,487	134,715	26,943
Efficient Television	Rebate for efficient television.	117	$6,073	232,102	55,546	19,342	5	$240	9,919	4,133	827
Efficient Home Incentives (low income included)											
Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.						1	$546	33,063	5,511	1,102
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.	429	$164,786	9,919,435	972,691	339,643	11	$9,782	1,177,605	196,267	39,253
Residential Total		**7,983**	**$1,358,754**	**121,957,141**	**21,539,297**	**7,469,764**	**6,306**	**$150,206**	**20,021,993**	**6,906,020**	**1,381,985**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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					
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	256	$5,778	501,761	392,001	78,400
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.						10	$1,804	233,259	77,753	15,551
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**	**275**	**$11,077**	**1,085,171**	**558,870**	**111,774**

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								
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	29,530	$127,386				4,316	$55,507			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	20,030	$97,691				4,316	$19,124			
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				4,316	$11,189			
TOTAL		**61,847**	**$1,908,822**	**139,122,286**	**26,813,767**	**9,259,309**	**19,529**	**$247,103**	**21,107,163**	**7,464,890**	**1,493,759**
Percentage of 5 year plan goal achieved								**13%**	**15%**		**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				
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 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**

	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**

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.

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	7	$909	24,301	1,736	2
ENERGY STAR Qualified Room Air Conditioner	1	$33	883	98	0	1	$32	883	98	0
Geothermal Heat Pump	43	$88,529	11,338,603	566,930	18	47	$96,136	12,393,357	619,668	20
Air Source Heat Pump	53	$49,608	6,199,775	413,318	16	58	$54,156	6,784,660	452,311	18
Heat Recovery Ventilators	2	$327	24,863	1,243		2	$325	24,863	1,243	
Residential Contractor Rebates	96	$19,200				105	$21,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	507	$1,325	240,660	32,967	30	482	$1,252	228,793	31,342	29
Local CFL Rebate Program(s)	100	$261	47,467	6,502	6	100	$260	47,467	6,502	6
ENERGY STAR Ceiling Fan	1	$20	2,996	166	0	1	$19	2,996	166	0
Exterior Lighting										
High Efficiency Exterior Lighting	51	$15,333	50,699	11,522	1	52	$15,532	51,693	11,748	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	97	$13,072	346,170	23,078	3	99	$13,247	353,047	23,536	3
Heat Pump Water Heater - (Add-On)	2	$1,046	38,243	3,824	0	2	$1,039	38,243	3,824	0
Heat Pump Water Heater - (Integrated)	9	$6,471	206,511	17,209	2	12	$8,571	275,349	22,946	3
Solar Water Heaters (w/ Electric auxiliary tank)	1	$458	22,284	1,857	0	1	$455	22,284	1,857	0
Flow Restrictors - Faucet	87	$3,412	288,223	32,025	2	89	$3,467	294,849	32,761	2
Flow Restrictors - Shower	87	$5,686	546,531	54,653	4	89	$5,779	559,095	55,910	4
Tank Insulation	9	$176	15,275	1,528	0	9	$175	15,275	1,528	0
Pipe Insulation	9	$176	15,920	1,061	0	9	$175	15,920	1,061	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	63	$4,804	152,751	13,886	5	64	$4,864	155,176	14,107	5
ENERGY STAR Qualified Dishwasher	29	$948	37,266	3,388	3	30	$974	38,551	3,505	3
ENERGY STAR Qualified Refrigerator	59	$1,928	92,659	6,177	1	60	$1,948	94,230	6,282	1
ENERGY STAR Qualified Dehumidifier	30	$980	84,509	7,042	1	31	$1,006	87,326	7,277	1
ENERGY STAR Qualified Freezer	26	$850	28,798	1,920	0	27	$877	29,905	1,994	0
Appliance Recycling	107	$8,182	1,148,351	127,595	20	110	$8,412	1,180,547	131,172	21
Efficient Television	22	$1,150	43,643	3,637	1	24	$1,247	47,611	3,968	1
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	18	$818	182,468	20,274	2
Weatherization Rebates	2	$392	9,291	310	0	2	$390	9,291	310	0
Building Shell - Existing Home Only										
Weatherization Rebates	81	$31,194	1,859,854	63,674	8	89	$34,138	2,053,984	70,295	9
Residential Total	**1,604**	**$257,529**	**23,099,682**	**1,423,254**	**127**	**1,620**	**$277,205**	**25,012,164**	**1,527,420**	**131**

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	133	$345	71,765	19,935	8
High Efficiency Interior Lighting	557	$9,756	670,438	129,066	2	628	$11,173	767,800	146,328	2
Exterior Lighting										
High Efficiency Exterior Lighting	9	$353	9,964	2,033	0	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	$1,569	370,239	24,683	2	1	$1,558	370,239	24,683	2
Agricultural										
Livestock Ventilation Fans	23	$2,752	121,368	10,114	3	26	$3,091	137,198	11,433	3
Ventilation Thermostat Controller	2	$65	5,422	452	0	2	$65	5,422	452	0
Circulating Fans --- BESS Lab Ratings	20	$958	79,087	6,591	2	23	$1,094	90,950	7,579	2
Efficient Livestock Waterers	8	$523	75,754	6,313		9	$584	85,223	7,102	
Hog Farrowing - Heat Lamps (<= 175W)	44	$173	29,289	7,322		51	$199	33,949	8,487	
Hog Farrowing - Single Crate Heating Pads (<=85W)	6	$196	11,969	1,197		7	$227	13,964	1,396	
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472		1	$65	7,736	472	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$20,965	1,696,886	128,307	13	2	$20,829	1,696,886	128,307	13
Ag, Commercial and Industrial Total	**813**	**$37,741**	**3,153,694**	**337,533**	**30**	**892**	**$39,582**	**3,291,096**	**358,207**	**31**

II. Demand Response Programs										
Industrial Interruptible Price	1	$11,523			110	1	$11,811			110
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$800				1	$800			
Energy Audit Services - Residential *	1	$850				1	$850			
IV. Educational & Research Programs										
Member Information and Education	5,900	$25,350				5,910	$25,393			
Living with Energy in Iowa	4,000	$19,200				4,010	$19,633			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,597					$10,597			
TOTAL	**12,320**	**$363,590**	**26,253,376**	**1,760,787**	**268**	**12,435**	**$385,871**	**28,303,260**	**1,885,627**	**272**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	7	$897	24,301	1,736	2
ENERGY STAR Qualified Room Air Conditioner	1	$32	883	98	0	1	$32	883	98	0
Geothermal Heat Pump	49	$99,581	12,920,734	646,037	21	51	$102,981	13,448,111	672,406	22
Air Source Heat Pump	61	$56,710	7,135,591	475,706	19	64	$59,231	7,486,521	499,101	20
Heat Recovery Ventilators	2	$323	24,863	1,243		2	$321	24,863	1,243	
Residential Contractor Rebates	110	$22,000				115	$23,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	443	$1,143	210,281	28,806	27	408	$1,046	193,667	26,530	24
Local CFL Rebate Program(s)	100	$258	47,467	6,502	6	100	$256	47,467	6,502	6
ENERGY STAR Ceiling Fan	1	$19	2,996	166	0	1	$19	2,996	166	0
Exterior Lighting										
High Efficiency Exterior Lighting	53	$15,729	52,687	11,974	1	54	$15,923	53,681	12,200	1
Residential Water Heating (low income included)										
High Efficiency Water Heater	101	$13,419	359,924	23,995	3	103	$13,589	366,801	24,453	3
Heat Pump Water Heater - (Add-On)	2	$1,032	38,243	3,824	0	2	$1,026	38,243	3,824	0
Heat Pump Water Heater - (Integrated)	16	$11,355	367,132	30,594	3	22	$15,513	504,806	42,067	5
Solar Water Heaters (w/ Electric auxiliary tank)	1	$452	22,284	1,857	0	1	$449	22,284	1,857	0
Flow Restrictors - Faucet	91	$3,552	301,475	33,497	2	93	$3,577	308,101	34,233	2
Flow Restrictors - Shower	91	$5,871	571,659	57,166	5	93	$5,961	584,223	58,422	5
Tank Insulation	9	$174	15,275	1,528	0	9	$173	15,275	1,528	0
Pipe Insulation	9	$174	15,920	1,061	0	9	$173	15,920	1,061	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	65	$4,923	157,600	14,327	5	66	$4,981	160,025	14,548	5
ENERGY STAR Qualified Dishwasher	31	$1,000	39,837	3,622	3	32	$1,026	41,122	3,738	3
ENERGY STAR Qualified Refrigerator	61	$1,968	95,800	6,387	1	63	$2,019	98,941	6,596	1
ENERGY STAR Qualified Dehumidifier	32	$1,032	90,143	7,512	1	33	$1,058	92,960	7,747	1
ENERGY STAR Qualified Freezer	28	$903	31,013	2,068	0	29	$929	32,121	2,141	0
Appliance Recycling	113	$8,641	1,212,744	134,749	21	116	$8,871	1,244,941	138,327	22
Efficient Television	25	$1,290	49,595	4,133	1	26	$1,333	51,578	4,298	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	5	$224	50,686	5,632	1
Weatherization Rebates	2	$387	9,291	310	0	2	$385	9,291	310	0
Building Shell - Existing Home Only										
Weatherization Rebates	94	$35,916	2,174,581	74,466	9	94	$35,686	2,174,581	74,466	9
Residential Total	**1,607**	**$289,194**	**26,063,552**	**1,583,501**	**132**	**1,601**	**$300,678**	**27,094,389**	**1,645,231**	**133**

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	112	$287	60,434	16,787	7
High Efficiency Interior Lighting	660	$11,695	806,538	153,789	2	660	$11,620	806,538	153,789	2
Exterior Lighting										
High Efficiency Exterior Lighting	9	$348	9,964	2,033	0	9	$346	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)										
Commercial Contractor Rebate (GS & AS)	10	$516								
Ag/Commercial & Industrial Motors										
Variable Speed Drive Motor Incentive	1	$1,548	370,239	24,683	2	1	$1,538	370,239	24,683	2
Agricultural										
Livestock Ventilation Fans	27	$3,189	142,475	11,873	4	28	$3,286	147,752	12,313	4
Ventilation Thermostat Controller	2	$65	5,422	452	0	2	$64	5,422	452	0
Circulating Fans --- BESS Lab Ratings	24	$1,134	94,904	7,909	2	25	$1,174	98,858	8,238	3
Efficient Livestock Waterers	9	$581	85,223	7,102		9	$577	85,223	7,102	
Hog Farrowing - Heat Lamps (<= 175W)	54	$209	35,946	8,987		56	$215	37,277	9,319	
Hog Farrowing - Single Crate Heating Pads (<=85W)	7	$226	13,964	1,396		7	$224	13,964	1,396	
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472		1	$64	7,736	472	
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program	2	$20,695	1,696,886	128,307	13	2	$20,562	1,696,886	128,307	13
Ag, Commercial and Industrial Total	**938**	**$45,101**	**3,760,978**	**386,581**	**32**	**912**	**$39,959**	**3,340,293**	**364,892**	**30**

II. Demand Response Programs										
Industrial Interruptible Price	1	$12,106			110	1	$12,409			110
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$825				1	$825			
Energy Audit Services - Residential *	1	$875				1	$875			
IV. Educational & Research Programs										
Member Information and Education	5,910	$25,393				5,910	$25,900			
Living with Energy in Iowa	4,010	$19,633				4,010	$20,025			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$10,597					$10,597			
TOTAL	**12,468**	**$403,725**	**29,824,530**	**1,970,081**	**273**	**12,436**	**$411,268**	**30,434,682**	**2,010,123**	**273**
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 14. 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.

T.I.P. Rural Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

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		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	15	3,867	77,348	27,624	5,525
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	9	$864	7,945	4,414	883
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	150	$306,180	39,553,267	5,273,769	1,977,663	24	$59,265	6,328,523	1,582,131	316,426
Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	50	$45,399	5,848,845	1,091,784	389,923	6	$11,196	701,861	233,954	46,791
Residential Contractor Rebates	Incentive for heat pump installs	150	$30,000				25	$6,831			
Residential Lighting (low income included)											
Interior Lighting											
Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	4,472	$11,625	2,122,744	904,808	290,787	2,814	$4,121	1,493,955	1,023,257	204,651
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	39,679	$103,465	18,834,608	7,721,003	2,580,083	14,058	$70,735	6,672,974	4,570,530	914,106
ENERGY STAR CFL Fixtures	Rebate for compact florescent light fixtures.	34	$353	74,193	10,256	3,710					
T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	122	$1,835	85,908	14,683	5,238					
ENERGY STAR LED lighting	Rebate for LED lighting.	5	$195	6,646	1,108	369					
ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	15	$292	44,933	7,489	2,496					
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	113	$4,337	117,440	77,726	26,285	76	$13,011	90,661	90,661	20,605
Residential Water Heating (low income included)											
High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	560	$145,853	1,946,253	353,490	129,750	112	$26,485	387,184	129,061	25,812
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.	57	$44,258	1,307,906	265,788	108,992	1	$578	22,946	9,561	1,912
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.	487	$18,951	1,613,388	501,354	179,265					
Flow Restrictors - Shower	Incentive for low-flow shower head.	487	$31,584	3,059,319	855,604	305,932					
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	113	$8,234	237,451	107,932	21,586
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	175	$5,680	224,884	60,164	20,444	40	$1,592	51,402	23,365	4,673
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	340	$11,036	533,967	104,700	35,598	104	$4,138	163,331	54,444	10,889
ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	155	$5,031	436,630	106,810	36,386	11	$438	30,987	12,911	2,582
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	140	$4,544	155,065	30,275	10,338	17	$676	18,829	6,276	1,255
Appliance Recycling	Incentives for appliance recycling.	122	$9,331	1,309,334	369,666	145,482	13	$862	102,194	56,775	11,355
Efficient Television	Rebate for efficient television.	117	$6,073	232,102	55,546	19,342	5	$276	9,919	4,133	827
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					
Advanced Lighting Package		24	$6,221	206,313	27,508	10,316					
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	56	$2,554	567,678	223,017	63,075					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	163	$60,591	3,627,171	362,337	123,974	5	$3,831	210,413	35,069	7,014
Residential Total		**48,203**	**$917,562**	**84,191,641**	**18,931,586**	**6,637,084**	**17,448**	**$216,999**	**16,607,924**	**7,972,097**	**1,596,892**

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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.	492	$1,279	265,477	229,175	73,744					
High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	29,427	$73,982	15,462,636	17,029,796	5,666,932	110	$2,788	286,045	223,473	44,695
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.							$1,465			
Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.							$1,465			
Livestock Ventilation Fans	Rebate for livestock ventilation fans.	99	$11,756	522,409	121,807	43,534		$1,949			
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.	66	$3,136	260,986	60,963	21,749					
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					
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 and Industrial Total		**30,676**	**$147,826**	**26,094,784**	**19,779,280**	**6,332,329**	**341**	**$46,613**	**10,663,626**	**2,869,290**	**573,858**
II. Demand Response Programs											
Industrial Interruptible Price	Industrial Interruptible Price	5	$122,222								
III. Energy Audit & Technical Support Programs											
Energy Audit Services - Residential *	Energy Audit Services - Residential	43	$8,600				7	$1,125			
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	31,000	$133,000				5,131	$42,913			
Peak Alert	Peak Alert	31,000									
Living with Energy in Iowa	Living with Energy in Iowa magazine.	25,500	$114,750				5,131	$14,039			
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				5,131	$14,708			
TOTAL		**197,427**	**$1,515,645**	**110,286,425**	**38,710,866**	**12,969,414**	**33,189**	**$336,398**	**27,271,549**	**10,841,387**	**2,170,750**
Percentage of 5 year plan goal achieved								**22%**	**25%**		**17%**

* 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 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					
Flow Restrictors - Faucet	72	$2,842	238,530	26,503	1					
Flow Restrictors - Shower	72	$4,737	452,302	45,230	4					
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	**9,654**	**$143,420**	**13,337,830**	**1,130,066**	**587**	**17,448**	**$216,999**	**16,607,924**	**1,596,892**	**1,159**

	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 and Industrial Total	**6,559**	**$64,020**	**11,405,375**	**1,598,781**	**50**	**341**	**$46,613**	**10,663,626**	**573,858**	**36**

II. Demand Response Programs										
Industrial Interruptible Price	1	$21,723			230					
III. Energy Audit & Technical Support Programs										
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	**39,921**	**$294,450**	**24,743,205**	**2,728,847**	**868**	**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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	21	$3,377	100,985	7,213	7
ENERGY STAR Qualified Room Air Conditioner	8	$261	7,062	785	1	8	$260	7,062	785	1
Geothermal Heat Pump	25	$51,471	6,592,211	329,611	11	30	$61,364	7,910,653	395,533	13
Air Source Heat Pump	9	$8,235	1,052,792	70,186	3	10	$9,091	1,169,769	77,985	3
Residential Contractor Rebates	25	$5,000				30	$6,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	966	$2,525	458,536	62,813	58	918	$2,384	435,751	59,692	55
Local CFL Rebate Program(s)	7,654	$20,010	3,633,158	497,693	459	8,000	$20,779	3,797,396	520,191	480
ENERGY STAR CFL Fixtures	6	$63	13,093	655	0	7	$73	15,275	764	0
T8 or better Lighting Fixtures	22	$333	15,490	944	0	25	$377	17,605	1,073	0
ENERGY STAR LED lighting	1	$39	1,329	74	0	1	$39	1,329	74	0
ENERGY STAR Ceiling Fan	3	$59	8,987	499	0	3	$58	8,987	499	0
Exterior Lighting										
High Efficiency Exterior Lighting	22	$850	22,891	5,121	0	22	$844	22,891	5,121	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	82	$21,569	286,094	19,073	3	129	$33,636	447,706	29,847	4
Heat Pump Water Heater - (Add-On)	3	$1,176	57,364	5,736	1	3	$1,169	57,364	5,736	1
Heat Pump Water Heater - (Integrated)	8	$6,275	183,566	15,297	2	10	$7,792	229,457	19,121	2
Solar Water Heaters (w/ Electric auxiliary tank)	1	$458	22,284	1,857	0	1	$455	22,284	1,857	0
Flow Restrictors - Faucet	90	$3,529	298,162	33,129	2	104	$4,052	344,543	38,283	2
Flow Restrictors - Shower	90	$5,882	565,377	56,538	5	104	$6,753	653,325	65,332	5
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	69	$5,170	167,299	15,209	6	70	$5,227	169,723	15,429	6
ENERGY STAR Qualified Dishwasher	34	$1,111	43,692	3,972	3	35	$1,136	44,977	4,089	3
ENERGY STAR Qualified Refrigerator	66	$2,157	103,653	6,910	1	68	$2,208	106,793	7,120	1
ENERGY STAR Qualified Dehumidifier	30	$980	84,509	7,042	1	31	$1,006	87,326	7,277	1
ENERGY STAR Qualified Freezer	27	$882	29,905	1,994	0	28	$909	31,013	2,068	0
Appliance Recycling	20	$1,530	214,645	23,849	4	25	$1,912	268,306	29,812	5
Efficient Television	22	$1,150	43,643	3,637	1	24	$1,247	47,611	3,968	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	3	$1,961	99,189	3,306	1	3	$1,948	99,189	3,306	1
Advanced Lighting Package	4	$1,046	34,386	1,719	1	5	$1,299	42,982	2,149	1
Additional Low Income										
Energy Efficiency Kits	17	$778	172,331	19,148	2	14	$636	141,920	15,769	2
Building Shell - Existing Home Only										
Weatherization Rebates	31	$11,737	701,668	24,003	3	34	$12,659	756,322	25,824	3
Residential Total	**9,359**	**$159,636**	**15,014,302**	**1,218,014**	**572**	**9,763**	**$188,691**	**17,038,545**	**1,345,918**	**597**

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	101	$262	54,498	15,138	6
High Efficiency Interior Lighting	5,788	$14,422	3,030,470	1,113,585	16	5,867	$14,990	3,096,731	1,131,125	16
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$229	10,299	687	0	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	18	$2,154	94,983	7,915	2	21	$2,497	110,814	9,234	3
Ventilation Thermostat Controller	1	$33	2,711	226	0	1	$32	2,711	226	0
Circulating Fans --- BESS Lab Ratings	12	$575	47,452	3,954	1	14	$666	55,361	4,613	1
Efficient Livestock Waterers	5	$327	47,346	3,946		6	$390	56,815	4,735	
Hog Farrowing - Heat Lamps (<= 175W)	24	$94	15,976	3,994		28	$109	18,639	4,660	
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$65	3,990	399		2	$65	3,990	399	
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472		1	$65	7,736	472	
Ag, Commercial and Industrial Total	**5,964**	**$18,241**	**3,318,160**	**1,151,065**	**27**	**6,065**	**$24,913**	**4,128,515**	**1,213,005**	**30**

II. Demand Response Programs										
Industrial Interruptible Price	1	$24,202			250	1	$24,807			250
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	6	$1,200				10	$2,000			
IV. Educational & Research Programs										
Member Information and Education	6,200	$26,600				6,200	$26,600			
Peak Alert	6,200					6,200				
Living with Energy in Iowa	5,100	$22,950				5,100	$22,950			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,200	$14,337				6,200	$14,337			
TOTAL	**39,030**	**$267,166**	**18,332,463**	**2,369,080**	**849**	**39,539**	**$304,298**	**21,167,060**	**2,558,923**	**877**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	21	$3,333	100,985	7,213	7
ENERGY STAR Qualified Room Air Conditioner	8	$258	7,062	785	1	8	$256	7,062	785	1
Geothermal Heat Pump	35	$71,129	9,229,096	461,455	15	40	$80,769	10,547,538	527,377	17
Air Source Heat Pump	11	$9,935	1,286,746	85,783	3	12	$10,769	1,403,723	93,582	4
Residential Contractor Rebates	35	$7,000				40	$8,000			
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	845	$2,181	401,100	54,945	51	777	$1,992	368,822	50,524	47
Local CFL Rebate Program(s)	8,000	$20,779	3,797,396	520,191	480	8,000	$20,779	3,797,396	520,191	480
ENERGY STAR CFL Fixtures	8	$83	17,457	873	0	8	$82	17,457	873	0
T8 or better Lighting Fixtures	28	$419	19,719	1,202	0	28	$417	19,719	1,202	0
ENERGY STAR LED lighting	1	$39	1,329	74	0	1	$38	1,329	74	0
ENERGY STAR Ceiling Fan	3	$58	8,987	499	0	3	$58	8,987	499	0
Exterior Lighting										
High Efficiency Exterior Lighting	23	$877	23,886	5,347	0	24	$910	24,880	5,573	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	132	$34,194	458,022	30,535	4	135	$34,744	468,337	31,222	4
Heat Pump Water Heater - (Add-On)	3	$1,161	57,364	5,736	1	3	$1,154	57,364	5,736	1
Heat Pump Water Heater - (Integrated)	14	$10,839	321,240	26,770	3	19	$14,615	435,969	36,331	4
Solar Water Heaters (w/ Electric auxiliary tank)	1	$452	22,284	1,857	0	1	$449	22,284	1,857	0
Flow Restrictors - Faucet	109	$4,219	361,107	40,123	2	112	$4,308	371,046	41,227	2
Flow Restrictors - Shower	109	$7,032	684,735	68,473	5	112	$7,179	703,581	70,358	6
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	71	$5,284	172,148	15,650	6	72	$5,340	174,573	15,870	6
ENERGY STAR Qualified Dishwasher	36	$1,161	46,262	4,206	3	37	$1,186	47,547	4,322	3
ENERGY STAR Qualified Refrigerator	70	$2,258	109,934	7,329	1	72	$2,308	113,075	7,538	1
ENERGY STAR Qualified Dehumidifier	32	$1,032	90,143	7,512	1	33	$1,058	92,960	7,747	1
ENERGY STAR Qualified Freezer	29	$935	32,121	2,141	0	30	$962	33,228	2,215	0
Appliance Recycling	30	$2,294	321,967	35,774	6	35	$2,677	375,629	41,737	7
Efficient Television	25	$1,290	49,595	4,133	1	26	$1,333	51,578	4,298	1
Efficient Home Incentives (low income included)										
Energy Efficient Home Construction Rebates *	3	$1,935	99,189	3,306	1	3	$1,923	99,189	3,306	1
Advanced Lighting Package	6	$1,548	51,578	2,579	1	6	$1,538	51,578	2,579	1
Additional Low Income										
Energy Efficiency Kits	7	$316	70,960	7,884	1	4	$179	40,548	4,505	1
Building Shell - Existing Home Only										
Weatherization Rebates	35	$12,737	761,083	25,983	4	35	$12,655	761,083	25,983	4
Residential Total	**9,730**	**$204,802**	**18,603,495**	**1,428,360**	**597**	**9,697**	**$221,012**	**20,197,468**	**1,514,726**	**597**

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	93	$240	50,182	13,939	6	86	$221	46,405	12,890	5
High Efficiency Interior Lighting	5,870	$15,098	3,108,721	1,132,719	16	5,870	$15,073	3,108,721	1,132,719	16
Ag/Commercial & Industrial Heating and Cooling										
ENERGY STAR Air Conditioning	7	$226	10,299	687	0	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	22	$2,599	116,091	9,674	3	23	$2,699	121,368	10,114	3
Ventilation Thermostat Controller	1	$32	2,711	226	0	1	$32	2,711	226	0
Circulating Fans --- BESS Lab Ratings	15	$709	59,315	4,943	2	15	$704	59,315	4,943	2
Efficient Livestock Waterers	6	$387	56,815	4,735		6	$385	56,815	4,735	
Hog Farrowing - Heat Lamps (<= 175W)	29	$112	19,304	4,826		30	$115	19,970	4,993	
Hog Farrowing - Single Crate Heating Pads (<=85W)	2	$65	3,990	399		2	$64	3,990	399	
Hog Farrowing - Heat Lamp or Pad Controller	1	$65	7,736	472		1	$64	7,736	472	
Ag, Commercial and Industrial Total	**6,046**	**$19,532**	**3,435,165**	**1,172,619**	**27**	**6,042**	**$21,120**	**3,807,569**	**1,196,859**	**29**

II. Demand Response Programs										
Industrial Interruptible Price	1	$25,427			250	1	$26,063			250
III. Energy Audit & Technical Support Programs										
Energy Audit Services - Residential *	10	$2,000				10	$2,000			
IV. Educational & Research Programs										
Member Information and Education	6,200	$26,600				6,200	$26,600			
Peak Alert	6,200					6,200				
Living with Energy in Iowa	5,100	$22,950				5,100	$22,950			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	6,200	$14,337				6,200	$14,337			
TOTAL	**39,487**	**$315,648**	**22,038,660**	**2,600,979**	**874**	**39,450**	**$334,082**	**24,005,038**	**2,711,585**	**876**
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 14. 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

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in our portfolio (one ethanol plant - new in 2009), 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.

TEC's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs. With the technological advancements and the improving economics in lighting along with the changing federal efficiency standards the area of energy efficient lighting incentives is one such area under review.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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.						1	120	2,238	799	160
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	60	$60	28,685	19,647	3,929
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					
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					
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 Dishwasher	Rebate for ENERGY STAR dishwasher.	8	$250	10,354	2,471	941	1	$25	1,294	588	118
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	6	$188	9,491	1,687	633	2	$50	3,164	1,055	211
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	1	$50	10,809	6,005	1,201
Smart Strip	Incentive for smart power supply strip.	5	$31	5,550	1,665	555					
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.										
Residential Total		**613**	**$6,101**	**647,470**	**200,296**	**71,391**	**65**	**$305**	**46,189**	**28,094**	**5,619**
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						121	$224			
TOTAL		**613**	**$6,101**	**647,470**	**200,296**	**71,391**	**250**	**$23,825**	**46,189**	**28,094**	**5,619**
Percentage of 5 year plan goal achieved								**390%**	**7%**		**8%**

* 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
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 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						
Building Shell - Existing Home Only										
Weatherization Rebates										
Residential Total	**99**	**$1,084**	**106,369**	**11,804**	**7**	**65**	**$305**	**46,189**	**5,619**	**5**
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	83	$208	39,680	5,436	5	94	$235	44,939	6,156	6
T8 or better Lighting Fixtures	3	$38	2,075	127	0	3	$38	2,075	127	0
ENERGY STAR LED lighting	1	$3	1,339	74	0	1	$3	1,339	74	0
Exterior Lighting										
High Efficiency Exterior Lighting	2	$38	3,427	723	0	2	$38	3,427	723	0
LED Holiday Lighting	5	$50	4,662	389	1	6	$60	5,594	466	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	1	$250	5,544	370	0	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	2	$3	6,673	741	0
Flow Restrictors - Shower	2	$13	12,654	1,265	0	2	$13	12,654	1,265	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Dishwasher	1	$31	1,294	118	0	2	$63	2,589	235	0
ENERGY STAR Qualified Refrigerator	1	$31	1,582	105	0	1	$31	1,582	105	0
ENERGY STAR Qualified Dehumidifier	2	$38	5,674	473	0	2	$38	5,674	473	0
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0	2	$63	2,231	149	0
Appliance Recycling	2	$100	17,872	1,986	0	2	$100	17,872	1,986	0
Smart Strip	1	$6	1,110	111		1	$6	1,110	111	
Building Shell - Existing Home Only										
Weatherization Rebates										
Residential Total	**108**	**$869**	**105,819**	**12,066**	**7**	**122**	**$1,313**	**136,414**	**14,907**	**8**
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										
TOTAL	**108**	**$869**	**105,819**	**12,066**	**7**	**122**	**$1,313**	**136,414**	**14,907**	**8**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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										
Residential Lighting (low income included)										
Interior Lighting										
Local CFL Rebate Program(s)	104	$260	49,720	6,811	6	115	$288	54,979	7,531	7
T8 or better Lighting Fixtures	4	$50	2,767	169	0	5	$63	3,459	211	0
ENERGY STAR LED lighting	2	$5	2,677	149	0	2	$5	2,677	149	0
Exterior Lighting										
High Efficiency Exterior Lighting	2	$38	3,427	723	0	2	$38	3,427	723	0
LED Holiday Lighting	6	$60	5,594	466	2	7	$70	6,527	544	2
Residential Water Heating (low income included)										
High Efficiency Water Heater	1	$250	5,544	370	0	1	$250	5,544	370	0
Heat Pump Water Heater - (Integrated)	1	$375	23,110	1,926	0	1	$375	23,110	1,926	0
Flow Restrictors - Faucet	2	$3	6,673	741	0	2	$3	6,673	741	0
Flow Restrictors - Shower	2	$13	12,654	1,265	0	2	$13	12,654	1,265	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Dishwasher	2	$63	2,589	235	0	2	$63	2,589	235	0
ENERGY STAR Qualified Refrigerator	1	$31	1,582	105	0	2	$63	3,164	211	0
ENERGY STAR Qualified Dehumidifier	2	$38	5,674	473	0	3	$56	8,511	709	0
ENERGY STAR Qualified Freezer	2	$63	2,231	149	0	3	$94	3,347	223	0
Appliance Recycling	2	$100	17,872	1,986	0	2	$100	17,872	1,986	0
Smart Strip	1	$6	1,110	111		1	$6	1,110	111	
Building Shell - Existing Home Only										
Weatherization Rebates										
Residential Total	**134**	**$1,353**	**143,226**	**15,679**	**9**	**150**	**$1,484**	**155,643**	**16,935**	**10**
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										
TOTAL	**134**	**$1,353**	**143,226**	**15,679**	**9**	**150**	**$1,484**	**155,643**	**16,935**	**10**
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 14. 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, 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. United Electric Cooperative also offers

prescriptive lighting incentives 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.

United Electric Cooperative five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs. This includes the review of

appliance efficiency minimum federal standards (such as SEER etc.) and also marketplace changes (market transformation of compact fluorescent light bulbs (CFLs).

Thank you.

United Electric Cooperative

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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.						1	$304	889	494	99
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.						3	$9,938	796,736	199,184	39,837
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	214	$615	102,308	70,074	14,015
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	3	$413	10,390	3,463	693
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	5	$794	8,974	4,079	816
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	35	$2,457	45,299	12,354	4,118	3	$413	3,883	1,765	353
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**	**229**	**$12,477**	**923,180**	**279,060**	**55,812**
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 & Industrial Custom Rebates			$0	0	0			$0			
Custom Rebate Program											
Ag, Commercial and Industrial Total		**40**	**$73,440**	**4,017,942**	**783,033**	**261,011**	**0**	**$0**	**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								
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						551	$1,157			
TOTAL		**375**	**$195,105**	**10,321,775**	**1,554,710**	**518,237**	**781**	**$18,853**	**923,180**	**279,060**	**55,812**
Percentage of 5 year plan goal achieved								**10%**	**9%**		**11%**

* 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**
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 & Industrial Custom Rebates							$0			
Custom Rebate Program										
Ag, Commercial and Industrial Total	**8**	**$14,688**	**803,588**	**52,202**	**12**	**0**	**$0**	**0**	**0**	**0**
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	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	8	$204	3,825	524	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$220	4,496	300	0	3	$220	4,496	300	0
Flow Restrictors - Faucet	3	$177	10,010	1,112	0	3	$177	10,010	1,112	0
Flow Restrictors - Shower	3	$410	18,981	1,898	0	3	$410	18,981	1,898	0
Tank Insulation	3	$230	5,128	513	0	3	$230	5,128	513	0
Pipe Insulation	3	$92	5,345	356	0	3	$92	5,345	356	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	10	$1,381	24,420	2,220	1	10	$1,381	24,420	2,220	1
ENERGY STAR Qualified Dishwasher	7	$491	9,060	824	1	7	$491	9,060	824	1
Building Shell - Existing Home Only										
Weatherization Rebates	21	$18,089	1,061,687	35,844	2	21	$18,089	1,061,687	35,844	2
Residential Total	**62**	**$23,733**	**1,260,766**	**51,445**	**5**	**62**	**$23,733**	**1,260,766**	**51,445**	**5**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	2	$731	1,889	408	0	2	$731	1,889	408	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1	1	$1,276	72,178	4,812	1
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5	1	$2,545	147,103	9,807	5
Livestock Ventilation Fans	1	$233	5,315	443	0	1	$233	5,315	443	0
Circulating Fans --- BESS Lab Ratings	1	$5,175	299,700	19,980	4	1	$5,175	299,700	19,980	4
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0	1	$1,064	55,361	3,691	0
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1	1	$3,664	222,043	13,061	1
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**8**	**$14,688**	**803,588**	**52,202**	**12**	**8**	**$14,688**	**803,588**	**52,202**	**12**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200				1	$200			
Expert Energy Services - C&I										
Energy Audit Services - Residential *	4	$400				4	$400			
IV. Educational & Research Programs										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network										
TOTAL	**75**	**$39,021**	**2,064,355**	**103,647**	**17**	**75**	**$39,021**	**2,064,355**	**103,647**	**17**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	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	8	$204	3,825	524	0
Residential Water Heating (low income included)										
High Efficiency Water Heater	3	$220	4,496	300	0	3	$220	4,496	300	0
Flow Restrictors - Faucet	3	$177	10,010	1,112	0	3	$177	10,010	1,112	0
Flow Restrictors - Shower	3	$410	18,981	1,898	0	3	$410	18,981	1,898	0
Tank Insulation	3	$230	5,128	513	0	3	$230	5,128	513	0
Pipe Insulation	3	$92	5,345	356	0	3	$92	5,345	356	0
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	10	$1,381	24,420	2,220	1	10	$1,381	24,420	2,220	1
ENERGY STAR Qualified Dishwasher	7	$491	9,060	824	1	7	$491	9,060	824	1
Building Shell - Existing Home Only										
Weatherization Rebates	21	$18,089	1,061,687	35,844	2	21	$18,089	1,061,687	35,844	2
Residential Total	**62**	**$23,733**	**1,260,766**	**51,445**	**5**	**62**	**$23,733**	**1,260,766**	**51,445**	**5**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
High Efficiency Interior Lighting	2	$731	1,889	408	0	2	$731	1,889	408	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	1	$1,276	72,178	4,812	1	1	$1,276	72,178	4,812	1
Agricultural										
Dairy Pre-coolers Incentive	1	$2,545	147,103	9,807	5	1	$2,545	147,103	9,807	5
Livestock Ventilation Fans	1	$233	5,315	443	0	1	$233	5,315	443	0
Circulating Fans --- BESS Lab Ratings	1	$5,175	299,700	19,980	4	1	$5,175	299,700	19,980	4
Scroll compressor (milk cooling)	1	$1,064	55,361	3,691	0	1	$1,064	55,361	3,691	0
Variable Speed Drive Motor - Dairy Vacuum Pump	1	$3,664	222,043	13,061	1	1	$3,664	222,043	13,061	1
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**8**	**$14,688**	**803,588**	**52,202**	**12**	**8**	**$14,688**	**803,588**	**52,202**	**12**
II. Demand Response Programs										
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	1	$200				1	$200			
Expert Energy Services - C&I										
Energy Audit Services - Residential *	4	$400				4	$400			
IV. Educational & Research Programs										
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network										
TOTAL	**75**	**$39,021**	**2,064,355**	**103,647**	**17**	**75**	**$39,021**	**2,064,355**	**103,647**	**17**
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 14. 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.

Western Iowa Power Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
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	14	2,175	65,796	23,499	4,700
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	3	$113	2,368	1,315	263
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	64	$157,879	16,997,030	2,350,371	849,852	27	$79,800	7,170,622	1,792,656	358,531
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	26	$19,200	3,063,200	1,021,067	204,213
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	251	$813	119,997	82,190	16,438
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.						2,546	$6,359	1,217,184	833,688	166,738
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	66	$19,800	228,571	76,190	15,238
Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	410	$4,345	1,368,031	456,010	152,003					
Flow Restrictors - Shower	Incentive for low-flow shower head.	205	$2,170	1,297,035	389,111	129,704					
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					
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	52	$3,900	161,905	73,593	14,719
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	341	$10,671	441,343	106,482	40,122	21	$788	27,179	12,354	2,471
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	276	$8,616	436,563	76,979	29,104	44	$1,650	69,597	23,199	4,640
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	410	$12,794	457,376	80,840	30,492	10	$375	11,156	3,719	744
Appliance Recycling	Incentives for appliance recycling.	587	$35,191	5,184,367	1,721,805	576,722	24	$900	151,495	87,568	17,514
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	142	$6,054	1,444,114	464,422	160,457	175	$5,909	1,779,719	988,733	197,747
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	167	$104,105	7,629,829	636,581	254,328	11	$6,917	491,575	81,929	16,386
Residential Total		**21,422**	**$806,518**	**91,077,150**	**18,794,003**	**6,545,985**	**3,270**	**$148,697**	**14,560,364**	**5,101,699**	**1,020,340**
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	28	$3,867	36,838	29,126	5,825
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	5	$11,870	86,802	13,020	4,340					
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					
Ag/Commercial & Industrial Motors											
Premium Motors Rebate Program - NEMA	Rebate for premium motors.	490	$195,080	5,237,757	1,047,551	349,184					
Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	155	$9,240	57,798,477	11,559,695	3,853,232					
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**	**29**	**$26,457**	**4,252,697**	**1,434,413**	**286,883**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	10,450	$754,277				1,787	$142,071			
Air Conditioning Load Control	Load control for air conditioning	7,620	$523,393				1,240	$98,583			
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											
Load Control	Irrigation load control.	1,710	$138,024				327	$25,997			
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								
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				3,566	$32,563			
Living with Energy in Iowa	Living with Energy in Iowa magazine.	17,600	$115,896				3,566	$9,897			
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				3,566	$11,157			
TOTAL		**91,927**	**$3,282,707**	**159,873,054**	**34,642,695**	**11,960,724**	**18,691**	**$601,957**	**18,813,060**	**6,536,111**	**1,307,222**
Percentage of 5 year plan goal achieved								**18%**	**12%**		**11%**

* 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
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**
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**
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										
Load Control	332	$25,997			2,191	327	$25,997			2,396
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

	2011					2012				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	11	$1,892	45,284	3,235	3
ENERGY STAR Qualified Room Air Conditioner	10	$304	7,892	877	1	12	$367	9,471	1,052	1
Geothermal Heat Pump	11	$28,122	2,921,365	146,068	17	13	$31,592	3,452,522	172,626	20
Air Source Heat Pump	74	$55,432	8,718,340	581,223	75	75	$56,046	8,836,155	589,077	77
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	3,469	$7,805	1,658,449	227,185	208
Local CFL Rebate Program(s)										
Residential Water Heating (low income included)										
High Efficiency Water Heater	101	$25,191	491,308	32,754	4	101	$25,432	491,308	32,754	4
Flow Restrictors - Faucet	82	$869	273,606	30,401	2	82	$869	273,606	30,401	2
Flow Restrictors - Shower	41	$434	259,407	25,941	2	41	$434	259,407	25,941	2
Tank Insulation	41	$434	70,085	7,009	0	41	$434	70,085	7,009	0
Pipe Insulation	41	$434	73,044	4,870	1	41	$434	73,044	4,870	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	9	$574	21,978	1,998	1	11	$695	26,862	2,442	1
ENERGY STAR Qualified Dishwasher	56	$1,760	72,479	6,589	5	68	$2,131	88,010	8,001	6
ENERGY STAR Qualified Refrigerator	45	$1,421	71,179	4,745	0	55	$1,721	86,996	5,800	1
ENERGY STAR Qualified Freezer	67	$2,111	74,742	4,983	1	82	$2,555	91,475	6,098	1
Appliance Recycling	116	$6,993	1,023,988	113,913	19	118	$7,038	1,041,860	115,898	20
Additional Low Income										
Energy Efficiency Kits	27	$1,151	274,585	30,509	4	29	$1,236	294,925	32,769	4
Building Shell - Existing Home Only										
Weatherization Rebates	25	$15,648	1,142,190	38,073	3	33	$20,753	1,507,691	50,256	4
Residential Total	**3,631**	**$148,911**	**16,904,171**	**1,220,691**	**310**	**4,282**	**$161,434**	**18,307,149**	**1,315,413**	**354**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	343	$686	186,405	51,779	21	414	$827	224,991	62,497	25
High Efficiency Interior Lighting	700	$1,543	657,174	142,051	2	842	$1,825	791,277	171,053	2
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$2,374	17,360	868	0	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	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	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	98	$39,016	1,047,551	69,837	9
Variable Speed Drive Motor Incentive	31	$1,848	11,559,695	770,646	67	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**	**1,396**	**$49,396**	**13,758,208**	**1,082,724**	**103**
II. Demand Response Programs										
Water Heater Load Control	1,988	$146,334			994	2,089	$150,724			1,045
Air Conditioning Load Control	1,422	$101,541			995	1,521	$104,587			1,065
Space Heating Load Control (Interruptible)	1,385	$99,658			6,233	1,473	$102,647			6,629
Dual-Fuel Space Heating	123	$10,072			738	123	$10,374			738
Irrigation										
Load Control	337	$26,777			2,224	342	$27,581			2,257
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$2,000				10	$2,000			
Expert Energy Services - C&I	5	$1,500				5	$1,500			
Energy Audit Services - Residential *	25	$25,000				25	$2,500			
IV. Educational & Research Programs										
Member Information and Education	3,585	$4,500				3,590	$4,800			
Living with Energy in Iowa	3,510	$22,800				3,520	$23,100			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$11,000					$11,100			
TOTAL	**17,204**	**$649,066**	**30,489,690**	**2,263,695**	**11,593**	**18,376**	**$651,743**	**32,065,357**	**2,398,137**	**12,191**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	14	$2,563	58,011	4,144	4
ENERGY STAR Qualified Room Air Conditioner	14	$431	11,049	1,228	1	16	$495	12,627	1,403	1
Geothermal Heat Pump	14	$34,936	3,718,100	185,905	22	16	$38,540	4,249,258	212,463	25
Air Source Heat Pump	75	$56,342	8,836,155	589,077	77	76	$56,976	8,953,970	596,931	78
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	4,669	$10,506	2,232,142	305,773	280
Local CFL Rebate Program(s)										
Residential Water Heating (low income included)										
High Efficiency Water Heater	102	$25,576	496,853	33,124	4	104	$25,827	505,860	33,724	5
Flow Restrictors - Faucet	82	$869	273,606	30,401	2	82	$869	273,606	30,401	2
Flow Restrictors - Shower	41	$434	259,407	25,941	2	41	$434	259,407	25,941	2
Tank Insulation	41	$434	70,085	7,009	0	41	$434	70,085	7,009	0
Pipe Insulation	41	$434	73,044	4,870	1	41	$434	73,044	4,870	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	13	$815	31,746	2,886	1	15	$940	36,630	3,330	1
ENERGY STAR Qualified Dishwasher	80	$2,501	103,541	9,413	7	92	$2,885	119,072	10,825	8
ENERGY STAR Qualified Refrigerator	65	$2,019	102,814	6,854	1	75	$2,329	118,631	7,909	1
ENERGY STAR Qualified Freezer	96	$2,998	107,093	7,140	1	111	$3,456	123,826	8,255	1
Appliance Recycling	118	$7,082	1,041,860	115,898	20	119	$7,129	1,052,670	117,099	20
Additional Low Income										
Energy Efficiency Kits	30	$1,279	305,095	33,899	4	31	$1,322	315,264	35,029	4
Building Shell - Existing Home Only										
Weatherization Rebates	42	$25,929	1,918,879	63,963	5	50	$31,174	2,284,380	76,146	6
Residential Total	**4,921**	**$173,423**	**19,333,691**	**1,386,468**	**394**	**5,593**	**$186,313**	**20,738,483**	**1,481,251**	**439**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	484	$967	263,033	73,065	29	557	$1,114	302,705	84,085	33
High Efficiency Interior Lighting	982	$2,105	923,492	199,647	3	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	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	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	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	98	$39,016	1,047,551	69,837	9
Variable Speed Drive Motor Incentive	31	$1,848	11,559,695	770,646	67	31	$1,848	11,559,695	770,646	67
Ag/Commercial & Industrial Custom Rebates										
Custom Rebate Program										
Ag, Commercial and Industrial Total	**1,606**	**$49,816**	**13,928,464**	**1,121,885**	**108**	**1,825**	**$50,257**	**14,106,017**	**1,162,724**	**113**
II. Demand Response Programs										
Water Heater Load Control	2,191	$155,245			1,096	2,295	$159,903			1,148
Air Conditioning Load Control	1,621	$107,725			1,135	1,727	$110,957			1,209
Space Heating Load Control (Interruptible)	1,562	$105,727			7,029	1,654	$108,898			7,443
Dual-Fuel Space Heating	123	$10,686			738	123	$11,006			738
Irrigation										
Load Control	347	$28,408			2,290	352	$29,260			2,323
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	10	$2,000				10	$2,000			
Expert Energy Services - C&I	5	$1,500				5	$1,500			
Energy Audit Services - Residential *	25	$2,500				25	$2,500			
IV. Educational & Research Programs										
Member Information and Education	3,595	$5,100				3,600	$5,400			
Living with Energy in Iowa	3,530	$23,400				3,540	$24,000			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$11,200					$11,300			
TOTAL	**19,536**	**$676,729**	**33,262,155**	**2,508,352**	**12,789**	**20,749**	**$703,294**	**34,844,500**	**2,643,974**	**13,412**
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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Rural Electric Cooperative

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RONALD A. KUNKEL, CED, EDFP
CEO/General Manager

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. 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 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 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 14. 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 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. 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.

Woodbury County Rural Electric Cooperative's five-year plan will ensure continuity of the measures and programs as well as provide for stable and sustained funding for energy efficiency programs. We will continue to review and evaluate our progress toward our five-year goal to determine if any changes are needed to optimize the energy efficiency programs.

The energy efficiency measures offered to the member/owners of Woodbury County REC in 2010 included rebates on "Energy Star" rated equipment. Rebates were paid for new installations of:

1. Ground source heat pumps
2. Air-to-air heat pumps
3. Central air-conditioners
4. Window/portable air-conditioners
5. Clothes washers
6. Refrigerators
7. Freezers
8. Dishwashers

Just having energy efficiency programs in place doesn't do any good if the membership is not aware of them. The best way of informing the membership about available programs is via the cooperatives monthly newsletter which is mailed to all 2,400 members. All available energy efficiency programs are also listed on the cooperatives web site for easy access.

Research into new energy efficiency technologies is very important. Therefore, in 2010 Woodbury County REC contributed $7828 to the Iowa Energy Center for research.

Since its incorporation in 1938, Woodbury County Rural Electric Cooperative has always been an advocate for the wise and efficient use of energy.

		5 Year Plan (2010-2014)					5 Year Plan (2010-2014)				
		Estimated Achievable Potential Goals					Plan to Date Results (Through 2010)				
Woodbury 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.	30	$5,692	123,123	22,642	8,795	8	600	30,862	11,022	2,204
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	3	$113	2,368	1,315	263
Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	39	$94,878	10,357,565	1,447,403	517,878	19	$57,000	5,045,993	1,261,498	252,300
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	16	$12,600	1,885,046	628,349	125,670
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	3,705	$8,639	1,771,275	1,213,202	242,640
Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.						1,550	$3,864	741,019	507,548	101,510
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	27	$8,100	130,969	43,656	8,731
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	55	$4,125	171,245	77,839	15,568
ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	205	$6,414	265,323	64,125	24,120	31	$1,163	40,122	18,237	3,647
ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	166	$5,179	262,571	46,398	17,505	47	$1,763	74,342	24,781	4,956
ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	247	$7,689	275,541	48,638	18,369	11	$413	12,271	4,090	818
Appliance Recycling	Incentives for appliance recycling.	353	$21,149	3,124,815	1,037,454	347,542	24	$900	176,683	100,200	20,040
Additional Low Income											
Energy Efficiency Kits	Energy efficiency kit for low-income.	120	$5,116	1,220,378	384,193	135,598	145	$4,896	1,474,624	819,236	163,847
Building Shell - Existing Home Only											
Weatherization Rebates	Rebates for various insulation measures.	100	$62,561	4,568,760	380,730	152,292	14	$9,021	629,636	104,939	20,988
Residential Total		**12,914**	**$486,165**	**55,216,558**	**11,429,103**	**3,980,563**	**5,661**	**$113,195**	**12,215,448**	**4,830,964**	**966,193**
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	32	$75	15,885	30,547	6,109
Exterior Lighting											
High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact florescent)						7	$1,000	8,197	8,364	1,673
Ag/Commercial & Industrial Heating and Cooling											
Geothermal Heat Pump	Rebate for geothermal heat pump.	5	$6,660	86,802	13,020	4,340	5	$9,500	86,802	21,701	4,340
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 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					
Ag, Commercial and Industrial Total		**3,886**	**$137,726**	**37,870,050**	**8,733,611**	**2,984,677**	**45**	**$10,775**	**116,428**	**62,460**	**12,492**
II. Demand Response Programs											
Water Heater Load Control	Load control of water heaters.	6,346	$483,134				1,087	$91,001			
Air Conditioning Load Control	Load control for air conditioning	5,543	$416,909				938	$78,527			
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				30	$2,512			
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				5				
IV. Educational & Research Programs											
Member Information and Education	Member Information and Education	14,480	$192,800				2,356	$39,699			
Peak Alert	Peak Alert	11,700	$325				2,356	$62			
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				2,356	$7,828			
TOTAL		**62,133**	**$2,331,526**	**93,086,608**	**20,162,714**	**6,965,240**	**16,073**	**$447,156**	**12,331,876**	**4,893,424**	**978,685**
Percentage of 5 year plan goal achieved								**19%**	**13%**		**14%**

* 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
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**
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 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**
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

Woodbury County Rural Electric Cooperative	2011 Estimated Achievable Potential					2012 Estimated Achievable Potential				
	Projected Participants	Projected Cost	Lifetime kWh Savings	Annual kWh Savings (i.e., kWh Savings Excluding Savings After 1st Year of Measure Life)	KW Savings	Projected Participants	Projected Cost	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	6	$1,137	25,455	1,818	2
ENERGY STAR Qualified Room Air Conditioner	6	$183	4,735	526	1	7	$220	5,524	614	1
Geothermal Heat Pump	7	$16,900	1,859,050	92,953	11	8	$18,985	2,124,629	106,231	12
Air Source Heat Pump	44	$33,312	5,183,878	345,592	45	45	$33,681	5,301,693	353,446	46
Residential Lighting (low income included)										
Interior Lighting										
Change a Light Rebate Program (or similar program)	1,729	$3,890	826,595	113,232	104	2,085	$4,691	996,791	136,547	125
Local CFL Rebate Program(s)										
Residential Water Heating (low income included)										
High Efficiency Water Heater	61	$15,138	296,586	19,772	3	61	$15,284	296,586	19,772	3
Flow Restrictors - Faucet	49	$522	163,496	18,166	1	49	$522	163,496	18,166	1
Flow Restrictors - Shower	25	$261	158,175	15,818	1	25	$261	158,175	15,818	1
Tank Insulation	25	$261	42,735	4,274	0	25	$261	42,735	4,274	0
Pipe Insulation	25	$261	44,539	2,969	1	25	$261	44,539	2,969	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	6	$345	14,652	1,332	0	7	$418	17,094	1,554	1
ENERGY STAR Qualified Dishwasher	34	$1,058	44,005	4,000	3	41	$1,281	53,065	4,824	4
ENERGY STAR Qualified Refrigerator	27	$854	42,707	2,847	0	33	$1,034	52,198	3,480	0
ENERGY STAR Qualified Freezer	41	$1,269	45,738	3,049	0	49	$1,535	54,662	3,644	0
Appliance Recycling	70	$4,202	619,227	68,871	12	70	$4,229	619,227	68,871	12
Additional Low Income										
Energy Efficiency Kits	22	$938	223,736	24,860	3	24	$1,023	244,076	27,120	3
Building Shell - Existing Home Only										
Weatherization Rebates	15	$9,403	685,314	22,844	2	20	$12,471	913,752	30,458	2
Residential Total	**2,191**	**$89,735**	**10,274,997**	**742,521**	**188**	**2,580**	**$97,294**	**11,113,696**	**799,606**	**214**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	191	$382	103,800	28,833	11	230	$461	124,995	34,721	14
High Efficiency Interior Lighting	390	$859	366,084	79,130	1	468	$1,017	439,746	95,060	1
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,332	17,360	868	0	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	2	$1,200	52,348	3,490	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	4	$775	22,178	1,479	0	4	$775	22,178	1,479	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	54	$21,730	577,222	38,481	5	54	$21,730	577,222	38,481	5
Variable Speed Drive Motor Incentive	17	$1,029	6,339,188	422,613	37	17	$1,029	6,339,188	422,613	37
Ag, Commercial and Industrial Total	**659**	**$27,307**	**7,478,180**	**574,893**	**55**	**776**	**$27,544**	**7,573,037**	**596,712**	**57**
II. Demand Response Programs										
Water Heater Load Control	1,208	$93,731			604	1,269	$96,543			635
Air Conditioning Load Control	1,047	$80,883			733	1,106	$83,309			774
Space Heating Load Control (Interruptible)	1,178	$92,868			5,301	1,231	$95,654			5,540
Dual-Fuel Space Heating	160	$13,797			960	160	$14,210			960
Irrigation										
Load Control	31	$2,587			205	31	$2,664			205
Industrial Interruptible Price	1	$203			7	2	$7			13
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	4	$800				2	$400			
Expert Energy Services - C&I	1	$300								
Energy Audit Services - Residential *	22	$2,200				24	$2,400			
IV. Educational & Research Programs										
Member Information and Education	2,870	$38,000				2,890	$38,500			
Peak Alert	2,320	$60				2,340	$65			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$7,000					$7,100			
TOTAL	**11,692**	**$449,470**	**17,753,177**	**1,317,415**	**8,051**	**12,411**	**$465,691**	**18,686,733**	**1,396,318**	**8,397**
Percentage of 5 year plan goal achieved										

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

	2013					2014				
	Estimated Achievable Potential					Estimated Achievable Potential				
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	Projected Participants	Projected Cost	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	8	$1,541	32,556	2,325	3
ENERGY STAR Qualified Room Air Conditioner	8	$259	6,314	702	1	10	$298	7,892	877	1
Geothermal Heat Pump	9	$20,995	2,390,207	119,510	14	9	$23,161	2,390,207	119,510	14
Air Source Heat Pump	45	$33,859	5,301,693	353,446	46	46	$34,240	5,419,508	361,301	47
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	2,806	$6,313	1,341,484	183,765	168
Local CFL Rebate Program(s)										
Residential Water Heating (low income included)										
High Efficiency Water Heater	61	$15,370	296,586	19,772	3	62	$15,521	302,131	20,142	3
Flow Restrictors - Faucet	49	$522	163,496	18,166	1	49	$522	163,496	18,166	1
Flow Restrictors - Shower	25	$261	158,175	15,818	1	25	$261	158,175	15,818	1
Tank Insulation	25	$261	42,735	4,274	0	25	$261	42,735	4,274	0
Pipe Insulation	25	$261	44,539	2,969	1	25	$261	44,539	2,969	1
Residential Appliances (low income included)										
ENERGY STAR Qualified Clothes Washer	8	$490	19,536	1,776	1	9	$565	21,978	1,998	1
ENERGY STAR Qualified Dishwasher	48	$1,503	62,124	5,648	4	55	$1,734	71,184	6,471	5
ENERGY STAR Qualified Refrigerator	39	$1,214	61,688	4,113	0	45	$1,400	71,179	4,745	0
ENERGY STAR Qualified Freezer	58	$1,802	64,702	4,313	1	67	$2,077	74,742	4,983	1
Appliance Recycling	71	$4,257	630,036	70,072	12	72	$4,284	637,099	70,857	12
Additional Low Income										
Energy Efficiency Kits	26	$1,108	264,415	29,379	3	28	$1,194	284,755	31,639	4
Building Shell - Existing Home Only										
Weatherization Rebates	25	$15,582	1,142,190	38,073	3	30	$18,734	1,370,628	45,688	4
Residential Total	**2,967**	**$104,562**	**11,846,068**	**849,956**	**239**	**3,371**	**$112,367**	**12,434,289**	**895,528**	**264**
Agriculture/Commercial & Industrial Lighting										
Interior Lighting										
Change a Light Rebate Program	269	$539	146,190	40,608	16	310	$620	168,471	46,798	19
High Efficiency Interior Lighting	546	$1,173	513,409	110,991	2	628	$1,335	590,849	127,739	2
Exterior Lighting										
High Efficiency Exterior Lighting										
Ag/Commercial & Industrial Heating and Cooling										
Geothermal Heat Pump	1	$1,332	17,360	868	0	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	2	$1,200	52,348	3,490	0
Ag/Commercial & Industrial Water Heating										
High-Efficiency Water Heater	4	$775	22,178	1,479	0	4	$775	22,178	1,479	0
Ag/Commercial & Industrial Motors										
Premium Motors Rebate Program - NEMA	54	$21,730	577,222	38,481	5	54	$21,730	577,222	38,481	5
Variable Speed Drive Motor Incentive	17	$1,029	6,339,188	422,613	37	17	$1,029	6,339,188	422,613	37
Ag, Commercial and Industrial Total	**893**	**$27,778**	**7,667,894**	**618,530**	**60**	**1,016**	**$28,021**	**7,767,616**	**641,467**	**62**
II. Demand Response Programs										
Water Heater Load Control	1,330	$99,439			665	1,392	$102,422			696
Air Conditioning Load Control	1,168	$85,808			818	1,231	$88,383			862
Space Heating Load Control (Interruptible)	1,285	$98,524			5,783	1,340	$101,480			6,030
Dual-Fuel Space Heating	160	$14,637			960	160	$15,076			960
Irrigation										
Load Control	32	$2,744			211	33	$2,827			218
Industrial Interruptible Price	3	$209			20	3	$9			20
III. Energy Audit & Technical Support Programs										
Expert Energy Services - Agricultural	3	$600				2	$400			
Expert Energy Services - C&I										
Energy Audit Services - Residential *	26	$2,600				28	$2,800			
IV. Educational & Research Programs										
Member Information and Education	2,910	$39,000				2,960	$39,500			
Peak Alert	2,360	$70				2,380	$75			
Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		$7,200					$7,300			
TOTAL	**13,137**	**$483,171**	**19,513,962**	**1,468,486**	**8,755**	**13,916**	**$500,659**	**20,201,905**	**1,536,995**	**9,112**
Percentage of 5 year plan goal achieved										

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