Maquoketa Valley
Electric Cooperative

EEP-2009-0002

FILED WITH
Executive Secretary

December 20, 2013

IOWA UTILITIES BOARD

December 18, 2013

Joan Conrad
Executive Secretary
Iowa Utilities Board
1735 E. Court Avenue
Des Moines IA 50319-0069

RE: Summary of 2011 and 2012 Energy Efficiency Programs

Dear Ms. Conrad

Maquoketa Valley Electric Cooperative is submitting a summary of 2011-2012 Energy Efficiency Programs in accordance with the requirements of SF 2386 on energy efficiency.

Please contact me at 319-462-3542 if you have questions.

Sincerely

REDACTED

Patty Manuel
Director of Communications

Maquoketa Valley
Electric Cooperative

Executive Summary

The following pages summarize the energy efficiency programs we offered in 2011 and 2012. We are filing this in accordance with the requirements for non rate-regulated utilities as described in SF2386 on energy efficiency. Maquoketa Valley Electric Cooperative's five year (2010-2014) goals were filed on December 31, 2009 as part of the Iowa Association for Electric Cooperative's joint filing for several Iowa cooperatives.

Each of the attached summaries include the type of program, number of member participants as well as number of units per participant, the cooperative's investment in each program and the annual energy savings.

The following snapshot shows results of almost 50 programs offered each year.

	2011	2012
Number of Member Participants	3,339	5,231
Total Residential/Ag/Commercial Investment	$567,784	$552,334
Projected Investment	$668,060	$656,669
Total Residential/Ag/Commercial kWh Savings	3,843,979	4,935,288
Projected kWh Savings	4,160,909	$4,456,062
Member Savings as % of Projections	92%	110%
Cooperative's Cost as % of Projections	85%	84%
Total kWh Savings as % of Sales	1.45%	1.87%

At this time we have no updates or amendments to our initial filing.

		Maquoketa Valley Electric Cooperative 2011	Measure Description	2011 Energy Filing					
				Accounts	Unit Quantity	Unit Description	Total Costs	kWh Savings	kW Savings
I. Incentive Programs for Energy Efficient Technologies									
		Residential Cooling & Heating (low income included)							
	1.1	ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	115	115	A/C unit	$ 18,747	41,555	44
	1.2	ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	23	23	A/C unit	$ 733	2,256	2
	1.3	Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	118	138	home	$ 251,907	1,753,528	63
	1.4	Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	20	21	home	$ 15,240	157,631	6
	1.5	Heat Recovery Ventilators	Rebate for heat recovery ventilators.	39	39	per unit	$ 6,217	24,242	-
	1.6	Residential Contractor Rebates	Incentive for heat pump installs	97	97	home	$ 24,741	-	-
		Residential Lighting (low income included)							
		Interior Lighting							
	2.1	Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	426	3,413	per CFL	$ 7,180	227,573	42
	2.2	Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	451	2,163	per CFL	$ 5,517	140,647	143
	2.3	ENERGY STAR CFL Fixtures	Rebate for compact florescent light fixtures.	2	10	per fixture	$ 102	1,091	0
	2.4	T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	49	263	per fixture	$ 5,906	16,160	9
	2.5	ENERGY STAR LED lighting	Rebate for LED lighting.	26	208	per fixture	$ 7,869	15,359	9
	2.6	ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	3	7	per fixture	$ 134	1,165	0
	2.7	CFL Recycling	Recycling of compact florescent light bulbs.	-	-	per bulb	-	-	-
		Exterior Lighting							
	2.8	High Efficiency Exterior Lighting	compact florescent)	28	37	per bulb	$ 1,065	11,824	0
	2.9	LED Holiday Lighting	Rebate for holiday lighting.	92	375	per string	$ 1,750	7,496	26
		Residential Water Heating (low income included)							
	3.1	High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	199	199	per water heater	$ 25,761	46,468	7
	3.2	Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	-	-	per water heater	-	-	-
	3.3	Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	3	3	per water heater	$ 1,913	5,736	1
	3.4	Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	-	-	per water heater	-	-	-
	3.5	Drain Water Heat Recovery System	Rebate for drain water heat recovery system.	-	-	per unit	-	-	-
	3.6	Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	4	10	per home	$ 4	1,472	0
	3.7	Flow Restrictors - Shower	Incentive for low-flow shower head.	4	4	per home	$ 15	2,513	0
	3.8	Tank Insulation	Incentive for water heater tank insulation.	1	1	per blanket	$ 20	170	0
	3.8	Pipe Insulation	Incentive for water pipe insulation.	-	-	per home	-	-	-
		Residential Appliances (low income included)							
	4.1	ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	330	330	per appliance	$ 24,148	75,254	30
	4.2	ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	144	144	per appliance	$ 4,591	16,822	14
	4.3	ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	396	396	per appliance	$ 12,626	41,356	4
	4.4	ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	42	42	per appliance	$ 1,339	9,859	1
	4.5	ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	88	88	per appliance	$ 2,806	6,498	1
	4.6	Appliance Recycling	Incentives for appliance recycling.	288	358	per appliance	$ 28,503	311,053	74
	4.7	Efficient Television	Rebate for efficient television.	103	103	per appliance	$ 5,254	17,027	5
	4.8	Smart Strip	Incentive for smart power supply strip.	-	-	per strip	-	-	-
		Efficient Home Incentives (low income included)							
	5.2	Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	13	13	per home	$ 7,524	12,983	3
		Additional Low Income							
	6.1	Energy Efficiency Kits	Energy efficiency kit for low-income.	-	-	per kit	-	-	-
	6.2	Weatherization Rebates	Rebates for various insulation measures.	-	-	per home	-	-	-
		Building Shell - Existing Home Only							
	7.1	Weatherization Rebates	Rebates for various insulation measures.	55	55	per home	$ 17,991	47,327	7
		RESIDENTIAL TOTALS		**3,159**			**$479,605**	**2,995,066**	**492**

		Agriculture/Commercial & Industrial Lighting							
		Interior Lighting							
	8.1	Change a Light Rebate Program	Rebate for compact florescent light bulbs.	82	665	per bulb	$ 1,398	112,177	6
	8.2	High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	70	1,310	per fixture	$ 62,628	474,453	28
		U bend T8 fixtures			-	per fixture			
		T8 or T-5 fixtures - 2 ft			-	per fixture			
		Pulse start metal halide fixtures - 150 Watt		-	-	per bulb		-	-
		Pulse start metal halide fixtures - 70-249 Watt RETRO ONLY		-	-	per bulb		-	-
		SEER 14.5 +		-	-	per ton	-	-	-
		SEER 15 +		-	-	per ton	-	-	-
	10.4	Geothermal Heat Pump	Rebate for geothermal heat pump.	2	2	per ton	$ 4,910	22,570	1

		Maquoketa Valley Electric Cooperative 2011	Measure Description	2011 Energy Filing					
				Accounts	Unit Quantity	Unit Description	Total Costs	kWh Savings	kW Savings
	10.5	Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	-	-	per ton	-	-	-
		SEER 14.5 +		-	-	per ton	-	-	-
		SEER 15 +		-	-	per ton	-	-	-
		Ag/Commercial & Industrial Water Heating							
	11.1	High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	-	-	per water heater	-	-	-
		40-49 gallon		-	-	per water heater	-	-	-
		50-79 gallon		-	-	per water heater	-	-	-
		Ag/Commercial & Industrial Appliances							
	12.1	Commercial ENERGY STAR Refrigerators and Freezers	Rebates for ENERGY STAR refrigerators & freezers.	-	-	per appliance	-	-	-
		Commercial Solid Door Refrigerators - < 19 cu. ft.		-		per appliance		-	-
		Commercial Solid Door Refrigerators - 19-30 cu. ft.		-		per appliance		-	-
		Insulation (wall, ceiling, foundation, infiltration control)				per building		-	-
		Multi Family - Insulation & Sealing				per building		-	-
	14.2	Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	6	6	per HP	$ 1,122	18,112	2
		Agricultural							
	15.1	Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	2	2	per precooler	$ 1,014	12,558	7
	15.2	Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	2	2	per reclaimer	$ 2,449	35,444	19
	15.3	Livestock Ventilation Fans	Rebate for livestock ventilation fans.	2	11	per fan	$ 1,148	4,758	2
		14"-23"		-	-	per fan	-	-	-
		24"-35"		-	-	per fan	-	-	-
		20"-23"		-	-	per fan	-	-	-
		24"-35"		-	-	per fan	-	-	-
	15.8	Premium Motors Rebate Program - Dairy Vacuum Pump	Rebate for premium motors for dairy vacuum pumps.	-	-	per motor	-	-	-
	15.9	Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	4	4	per VSD	$ 2,041	34,562	3
	15.10	Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	-	-	per lamp	-	-	-
	15.11	Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	-	-	per pad	-	-	-
	15.12	Hog Farrowing - Double Crate Heating Pads(<=170W)	Rebate for double crate heating pads.	-	-	per pad	-	-	-
	15.13	Hog Farrowing - Heat Lamp or Pad Controller	Rebate for controller for heat pad or lamp.	-	-	per controller	-	-	-
		Ag/Commercial & Industrial Custom Rebates							
	16.1	Custom Rebate Program		3		kWh	$ 6,833	59,028	24
		NON-RESIDENTIAL TOTALS		**180**			**$88,178**	**848,912**	**121**
		TOTAL ENERGY EFFICIENCY PROGRAMS		**3,339**			**$567,784**	**3,843,979**	**613**

		Maquoketa Valley Electric Cooperative 2011	Measure Description	2011 Energy Filing					
				Accounts	Unit Quantity	Unit Description	Total Costs	kWh Savings	kW Savings
		Water Heater Load Control							
II. Demand R		Water Heater Storage							
	17.1	Air Conditioning Load Control	Load control of water heaters.			per account	-		
	18.1	Space Heating Load Control (Interruptible)	Water heater storage.			per account	-		
	19.1	Residential Time-of-Day Price	Load control for air conditioning			per account	-		
	20.1	Dual-Fuel (also called Electric Thermal) Storage Space Heating and Air Conditioning	Load control for space heating.			per account	-		
	21.1	Dual-Fuel Space Heating	Residential time of day price.			per account	-		
	22.1	Automated Milking System (Robotic Milking)	Dual fuel for space heating and air conditioning.			per account	-		
	23.1	***Crop Drying***	Duel fuel space heating			per account	-		
	23.12	Off Peak Pricing	24-hour milking versus 2-3x/day			per robot	0	0	0
		Load Control							
	24.1	***Irrigation***	Crop drying off peak pricing.			per account	-		
	24.2	Time of Use Pricing	Crop drying load control.			per account	-		
		Load Control							
	25.1	Commercial and Industrial Time-of-Day Price	Irrigation time of use prices.			per account	-		
	25.2	Industrial Interruptible Price	Irrigation load control.			per account	-		
	26.1		Commercial and Industrial Time-of-Day Price			per account	-		
	27.1	Expert Energy Services - Agricultural	Industrial Interruptible Price			per account	-		
III. Energy Au		Expert Energy Services - C&I							
	28.1	Energy Audit Services - Residential *	Expert Energy Services - Agricultural			per account	-		
	29.1		Expert Energy Services - Commercial and Industrial.			per account	-		
	30.1	Model Housing Education	Energy Audit Services - Residential	59	59	per account	$ 16,473		
IV. Educatior		Domestic Water Heater Enhancement							
	31.1	Member Information and Education	Model housing education.	1	1	per account	$ 6,000		
	32.1	Peak Alert	Domestic Water Heater Enhancement			per account	-		
	33.1	Living with Energy in Iowa	Member Information and Education	12,486	12,486		$ 28,438		
	34.1	Peak Alert	Peak Alert				-		
	35.1	Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network	Living with Energy in Iowa magazine.						
		TOTAL SAVINGS AS PERCENT OF SALES					**$648,975**	**3,843,979** **264,318,477** **1.45%**	**613**

		Maquoketa Valley Electric Cooperative 2012	Measure Description	2012 Energy Filing					
				Accounts	Unit Quantity	Unit Description	Total Costs	kWh Savings	kW Savings
I. Incentive Programs for Energy Efficient Technologies									
		Residential Cooling & Heating (low income included)							
	1.1	ENERGY STAR Central Air Conditioning	Rebate for central air conditioners above the baseline efficient models.	97	98	A/C unit	$ 17,405	34,130	36
	1.2	ENERGY STAR Qualified Room Air Conditioner	Rebate for window air conditioners above the baseline efficient models.	21	24	A/C unit	$ 802	2,354	2
	1.3	Geothermal Heat Pump	Rebate for geothermal heat pumps above the baseline efficient models.	90	102	Units	$ 183,774	1,305,258	47
	1.4	Air Source Heat Pump	Rebate for air source heat pumps above the baseline efficient models.	34	38	Units	$ 25,692	267,704	8
	1.5	Heat Recovery Ventilators	Rebate for heat recovery ventilators.	32	32	Units	$ 5,346	19,891	-
	1.6	Residential Contractor Rebates	Incentive for heat pump installs	74	74	Homes	$ 19,779	-	-
		Residential Lighting (low income included)							
		Interior Lighting							
	2.1	Change a Light Rebate Program (or similar program)	Rebate for compact florescent light bulbs.	2,814	22,543	Lamps	$ 49,595	1,372,863	187
	2.2	Local CFL Rebate Program(s)	Rebate for compact florescent light bulbs.	57	832	CFLs	$ 3,738	54,100	54
	2.3	ENERGY STAR CFL Fixtures	Rebate for compact florescent light fixtures.	5	10	Fixtures	$ 159	1,091	0
	2.4	T8 or better Lighting Fixtures	Rebate for T8 or better fixtures and bulbs.	28	251	Fixtures	$ 7,187	17,506	9
	2.5	ENERGY STAR LED lighting	Rebate for LED lighting.	57	968	Lamps/fixtures	$ 25,679	71,478	43
	2.6	ENERGY STAR Ceiling Fan	Rebate for ceiling fan and light fixture.	3	9	fixtures	$ 414	1,498	0
	2.7	CFL Recycling	Recycling of compact florescent light bulbs.	-	-	per bulb	-	-	-
		Exterior Lighting							
	2.8	High Efficiency Exterior Lighting	Rebates for exterior lighting (high pressure sodium, metal halide or compact florescent)	13	25	fixtures	$ 818	6,290	0
	2.9	LED Holiday Lighting	Rebate for holiday lighting.	92	352	strings	$ 895	5,043	25
		Residential Water Heating (low income included)							
	3.1	High Efficiency Water Heater	Rebate for high efficiency electric water heaters.	113	151	water heaters	$ 20,714	35,725	5
	3.2	Heat Pump Water Heater - (Add-On)	Rebate for add-on heat pump water heater.	-	-	water heaters	-	-	-
	3.3	Heat Pump Water Heater - (Integrated)	Rebate for integrated heat pump water heater.	1	1	water heaters	$ 668	1,912	0
	3.4	Solar Water Heaters (w/ Electric auxiliary tank)	Rebate for solar water heater.	-	-	water heaters	-	-	-
	3.5	Drain Water Heat Recovery System	Rebate for drain water heat recovery system.	-	-	Units	-	-	-
	3.6	Flow Restrictors - Faucet	Incentive for faucet flow restrictors.	10	30	Units	$ 32	3,681	0
	3.7	Flow Restrictors - Shower	Incentive for low-flow shower head.	10	11	Units	$ 39	6,282	1
	3.8	Tank Insulation	Incentive for water heater tank insulation.	-	-	water heaters	-	-	-
	3.8	Pipe Insulation	Incentive for water pipe insulation.	-	-	Homes	-	-	-
		Residential Appliances (low income included)							
	4.1	ENERGY STAR Qualified Clothes Washer	Rebate for ENERGY STAR clothes washer.	256	256	Appliance Units	$ 19,458	57,770	23
	4.2	ENERGY STAR Qualified Dishwasher	Rebate for ENERGY STAR dishwasher.	122	124	Appliance Units	$ 4,143	14,486	12
	4.3	ENERGY STAR Qualified Refrigerator	Rebate for ENERGY STAR refrigerator.	317	327	Appliance Units	$ 10,925	34,237	4
	4.4	ENERGY STAR Qualified Dehumidifier	Rebate for ENERGY STAR dehumidifier.	39	45	Appliance Units	$ 1,503	10,564	1
	4.5	ENERGY STAR Qualified Freezer	Rebate for ENERGY STAR freezer.	62	64	Appliance Units	$ 2,138	4,726	1
	4.6	Appliance Recycling	Incentives for appliance recycling.	297	373	Appliance Units	$ 36,183	330,850	76
	4.7	Efficient Television	Rebate for efficient television.	86	98	Appliance Units	$ 5,239	16,201	4
	4.8	Smart Strip	Incentive for smart power supply strip.	-	-	Strips	-	-	-
		Efficient Home Incentives (low income included)							
	5.2	Energy Efficient Home Construction Rebates *	Rebate for energy efficient home construction.	5	5	Homes	$ 3,341	5,511	1
		Additional Low Income							
	6.1	Energy Efficiency Kits	Energy efficiency kit for low-income.	-	-	Kits	-	-	-
	6.2	Weatherization Rebates	Rebates for various insulation measures.	-	-	Homes	-	-	-
		Building Shell - Existing Home Only							
	7.1	Weatherization Rebates	Rebates for various insulation measures.	36	48	Measures	$ 16,078	29,261	5
		RESIDENTIAL TOTALS						3,710,409	521

		Maquoketa Valley Electric Cooperative 2012	Measure Description	2012 Energy Filing					
				Accounts	Unit Quantity	Unit Description	Total Costs	kWh Savings	kW Savings
		Agriculture/Commercial & Industrial Lighting							
		Interior Lighting							
	8.1	Change a Light Rebate Program	Rebate for compact florescent light bulbs.	368	2,999	Lamps	$ 6,611	483,907	22
	8.2	High Efficiency Interior Lighting	Rebates for various interior lighting (e.g., CFLs, LEDS, florescent tubes, metal halide)	60	1,324	Lamps/fixtures	$ 60,915	501,803	19
		Exterior Lighting							
	9.1	High Efficiency Exterior Lighting	Rebates for exterior lighting (LED, high pressure sodium, metal halide or compact fluorescent)	-	-	Fixtures	-	-	-
		Ag/Commercial & Industrial Heating and Cooling							
	10.1	ENERGY STAR Air Conditioning	Rebate for ENERGY STAR air conditioning.	2	56	tons	$ 1,904	5,101	4
	10.2	Air Cooled Chillers	Rebate for water cooled chillers.	-	-	tons	-	-	-
	10.3	Water Cooled Chillers	Rebate for air cooled chillers.	-	-	tons	-	-	-
	10.4	Geothermal Heat Pump	Rebate for geothermal heat pump.	-	-	tons	-	-	-
	10.5	Air Source Heat Pump - (SEER 14.5, EER 12, HSPF 8.2)	Rebate for air source heat pump.	1	21	tons	$ 5,613	32,812	2
	10.6	Heat Recovery Ventilators	Rebate for heat recovery ventilators.	-	-	tons recovered	-	-	-
	10.7	Commercial Contractor Rebate (GS & AS)	Rebate to commercial contractors for heating and cooling equipment.	-	-	buildings	-	-	-
		Ag/Commercial & Industrial Water Heating							
	11.1	High-Efficiency Water Heater	Rebate for high efficiency electric water heaters.	-	-	water heaters	-	-	-
	11.2	Heat Pump Water Heater	Rebate for heat pump water heater.	-	-	water heaters	-	-	-
	11.3	Solar Water Heaters	Rebate for solar water heater.	-	-	water heaters	-	-	-
		Ag/Commercial & Industrial Appliances							
	12.1	Commercial ENERGY STAR Refrigerators and Freezers	Rebates for ENERGY STAR refrigerators & freezers.	2	5	Appliances	$ 735	2,427	0
		Ag/Commercial & Industrial Insulation							
	13.1	Building Envelope	Rebates for insulation.	-	-	buildings	-	-	-
		Ag/Commercial & Industrial Motors							
	14.1	Premium Motors Rebate Program - NEMA	Rebate for premium motors.	-	-	Horsepower	-	-	-
	14.2	Variable Speed Drive Motor Incentive	Incentives for variable speed drive motors.	-	-	Horsepower	-	-	-
		Agricultural							
	15.1	Dairy Pre-coolers Incentive	Rebate for dairy precoolers.	3	3	precoolers	$ 1,403	16,587	9
	15.2	Dairy Heat Reclaimer	Rebate for dairy heat reclaimer.	1	1	reclaimers	$ 641	8,861	5
	15.3	Livestock Ventilation Fans	Rebate for livestock ventilation fans.	1	6	fans	$ 380	1,834	1
	15.4	Ventilation Thermostat Controller	Rebate for ventilation thermostat controller.	-	-	controllers	-	-	-
	15.5	Circulating Fans --- BESS Lab Ratings	Rebate for circulating fans.	4	34	fans	$ 4,432	57,587	23
	15.6	Scroll compressor (milk cooling)	Rebate for milk cooling scroll compressor.	6	6	compressors	$ 2,773	29,316	4
	15.7	Efficient Livestock Waterers	Rebate for efficient livestock waterer.	-	-	waterers	-	-	-
	15.8	Premium Motors Rebate Program - Dairy Vacuum Pump	Rebate for premium motors for dairy vacuum pumps.	-	-	motors	-	-	-
	15.9	Variable Speed Drive Motor - Dairy Vacuum Pump	Rebate for variable speed motors for dairy vacuum pumps.	11	11	VSDs	$ 4,758	76,900	7
	15.10	Hog Farrowing - Heat Lamps (<= 175W)	Rebate for farrowing heat lamps.	-	-	lamps	-	-	-
	15.11	Hog Farrowing - Single Crate Heating Pads (<=85W)	Rebate for single crate heating pads.	-	-	pads	-	-	-
	15.12	Hog Farrowing - Double Crate Heating Pads(<=170W)	Rebate for double crate heating pads.	-	-	pads	-	-	-
	15.13	Hog Farrowing - Heat Lamp or Pad Controller	Rebate for controller for heat pad or lamp.	-	-	controllers	-	-	-
		Ag/Commercial & Industrial Custom Rebates							
	16.1	Custom Rebate Program		1		kWh	$ 422	7,746	1
		NON-RESIDENTIAL TOTALS					$ 90,587	1,224,878	96
		TOTAL ENERGY EFFICIENCY PROGRAMS		5,231			$ 552,334	4,935,288	618

		Maquoketa Valley Electric Cooperative 2012	Measure Description	2012 Energy Filing					
				Accounts	Unit Quantity	Unit Description	Total Costs	kWh Savings	kW Savings
II. Demand Response Programs									
	17.1	Water Heater Load Control	Load control of water heaters.			per account	-		
	18.1	Water Heater Storage	Water heater storage.			per account	-		
	19.1	Air Conditioning Load Control	Load control for air conditioning			per account	-		
	20.1	Space Heating Load Control (Interruptible)	Load control for space heating.			per account	-		
	21.1	Residential Time-of-Day Price	Residential time of day price.			per account	-		
	22.1	Air Conditioning	Dual fuel for space heating and air conditioning.			per account	-		
	23.1	Dual-Fuel Space Heating	Duel fuel space heating			per account	-		
	23.12	Automated Milking System (Robotic Milking)		4	9	per unit	$ 19,500	-	54
		Crop Drying							
	24.1	Off Peak Pricing	Crop drying off peak pricing.			per account	-		
	24.2	Load Control	Crop drying load control.			per account	-		
		Irrigation							
	25.1	Time of Use Pricing	Irrigation time of use prices.			per account	-		
	25.2	Load Control	Irrigation load control.			per account	-		
	26.1	Commercial and Industrial Time-of-Day Price	Commercial and Industrial Time-of-Day Price			per account	-		
	27.1	Industrial Interruptible Price	Industrial Interruptible Price			per account	-		
III. Energy Audit & Technical Support Programs									
	28.1	Expert Energy Services - Agricultural	Expert Energy Services - Agricultural	N/A	-	per account	-	-	-
	29.1	Expert Energy Services - C&I	Expert Energy Services - Commercial and Industrial.	N/A	-	per account	-	-	-
	30.1	Energy Audit Services - Residential *	Energy Audit Services - Residential	44	44	per account	$ 9,512	-	-
IV. Educational & Research Programs									
	31.1	Model Housing Education	Model housing education.	-	-	per account	-	-	-
	32.1	Domestic Water Heater Enhancement	Domestic Water Heater Enhancement			per account	-		
	33.1	Member Information and Education	Member Information and Education	12,506	12,506		$ 42,907	-	-
	34.1	Peak Alert	Peak Alert				-		
	35.1	Iowa Energy Center and Center for Global Regional Environmental Research & Cooperative Research Network		12,506	12,506		-		
		TOTAL					$624,253	4,935,288	672
		TOTAL 2012 kWh SALES						264,311,687	
		TOTAL SAVINGS AS PERCENT OF SALES						1.87%	