City of Niles Optimization Plan MPSC Case No. U-15874

Introduction

Pursuant to 2008 Public Act 295 (PA 295), the City of Niles is filing this energy optimization (EO) plan with the Michigan Public Service Commission (MPSC). PA 295 requires each electric energy provider in Michigan to implement an energy optimization plan that reduces electric energy consumption. This EO Plan was developed in three sections:

- Section 1 will address each requirement under PA 295 Section 71, Subsection 3 (a-i).
- Section 2 will address the requirements under Attachment E of the MPSC Temporary Order U-15800
- Section 3 will furnish additional information under MPSC Temporary Order U-15800

SECTION 1: PA 295 SECTION 71 SUBSECTION 3 REQUIRMENTS

Section 71 (3) (a) The EO plan shall offer programs to each customer class including low income customers;

The table below shows the incremental savings in megawatt hours required for the City of Niles Energy Optimization programs.

Savings is rep	orted in Meg	awatt hours	Total Savings Required
Program Year	% Saving	Sales Year	KWH
2008-2009	0.30%	2007	439,689
2010	0.50%	2009	695,717
2011	0.75%	2010	1,030,296
2012	1.0%	2011	1,364,262

The City of Niles Energy Optimization programs were developed to serve all customer classes including residential low income. The City of Niles 2009 plan is based on allocating approximately 5% of its EO budget to low income program, 34.5% to residential, 51.5% to commercial and industrial, and 9% to evaluation and administration. Program allocations will be revised on an annual basis in order to continue meeting the goals under PA 295.

Shown in this filing are the first four years of EO programming for the City of Niles plan. The program portfolio is designed to simultaneously satisfy savings and budget goals. The City of Niles will continue its programming after 2012 consistent with 2008 PA 295. Programs that will be offered to each rate class are listed below and are categorized into Low Income Services, Residential Solutions and Business Solutions. A detailed list of budget amounts and the associated kilowatt savings for each customer class can be found in Attachment A. A detailed description, with budgets, of the programs that will be offered to each rate class is included in Attachment B.

Residential Low Income Services

The City of Niles will spend 5% of the program budget on low income programs. Target market for this program is residential customers whose income is estimated to be below 200% of poverty level as defined by the U.S. Department of Health and Human Services. Services will be targeted to diverse segments of the population including those living in single family and multi-family buildings, home owners and renters, and to the extent possible – age and geographic diversity. This program provides funding to upgrade the electric energy efficiency of customers living on limited incomes. The City of Niles will work with the local weatherization or faith based agencies to leverage their funding by subsidizing the installation of cost-effective electric measures, thereby increasing the number of homes served through the program. The program will be marketed through utility bill inserts, the media and existing low-income community organizations and other partners.

Residential Solutions

The programs below will be available to all City of Niles customers on Rate 1 & 1R

- Efficient Lighting Program
- Refrigerator/Freezer Turn-In and Recycling Program
- High-Efficiency Appliances and Electronics Program
- > High-Efficiency HVAC Equipment
- Residential Education Services

Business Solutions

The programs below will be available to all City of Niles commercial and industrial customers billed on Rates 2-2R & 2+2R, Rates 3 & 3R, and Rates 4 & 4R.

- Commercial and Industrial Prescriptive Incentive Program
- Commercial and Industrial Custom Incentive Program
- Services for Multi-Family Property Owners
- Business Education Services

Section 71 (3)(b) The EO plan shall specify the necessary funding levels;

In order to achieve the mandatory energy savings targets, the City of Niles Energy Optimization Plan will require the maximum spending as allowed in Section 89 (7) of Public Act 295. The estimated funding levels are shown in the table below.

Expenditures I	Total Spending		
Program Year	% Spending	Sales Year	\$
2009	0.75%	2007	65,309
2010	1.00%	2008	108,633
2011	1.50%	2009	170,1605
2012	2.0%	2010	229,474

Section 71 (3)(c) Describe how EO program costs will be recovered from customers;

All costs associated with the implementation of the City of Niles Energy Optimization Plan will be recovered consistent with Section 89 (2) of Public Act 295. Residential customers will be charged on a volumetric basis; primary and secondary customers will be charged on a per meter basis.

The costs for primary customers will not exceed 1.7% of total retail sales for that customer class and for residential and secondary will not exceed 2.2% of total retail sales for those customer classes. [PA 295 Section 89 (3)]

The program costs for the low income residential program have been allocated to all customer classes based on the weighting of the customer class's respective program costs of the total EO program costs.

These surcharges will be evaluated each year and adjusted accordingly in order to meet the energy savings goals.

The City of Niles plans to assess monthly levelized surcharges to recover the cost of the proposed Energy Optimization programs. Levelizing energy optimization rates provide customers consistent rates over the EO program period. EO rates for 2009 would have been higher than levelized rates due to the condensed recovery period offered in 2009. Without levelizing rates customers would experience a decrease in the EO rate in 2010 with sharp increases in the remaining years. For residential customers, levelized rates were calculated by dividing total four year residential program costs, including a share of low income and administrative costs, by the projected residential

kWh. Levelized secondary and primary rates were calculated by dividing each customer groups four year program costs and share of low income and administrative costs by the projected number of billable meters.

Levelized S	2009-2012	
Residential	Per kWh	\$0.00107
Secondary 1	Per meter	\$4.34
Secondary 2	Per meter	\$206.25

Section 71 (3)(d) Ensure, to the extent feasible, that charges collected from a particular customer rate class are spent on EO programs for that rate class;

Charges for each customer class were developed based on the approximate percentage of programs budget allocations that will be offered for that customer class to the extent feasible.

Section 71 (3)(e) Demonstrate that proposed EO funding is sufficient to ensure achievement of EO savings standards;

The City of Niles Program Portfolio was prepared by Summit Blue and Wisconsin Energy Conservation Corporation (WECC) to outline goals, budgets, and programs that have the potential to achieve the targets identified in PA 295. The programs described in this plan were modeled based on typical measure characteristics used in similar "best practice" programs across the country, along with specific savings estimates from the new Michigan Deemed Savings Database.

Section 71 (3)(f) Specify whether electric energy savings will be based on weather normalized sales or the average megawatt hours of electricity sold by the provider annually during the previous 3 years to retail customers;

The incremental energy savings for the City of Niles Energy Optimization Plan will be calculated utilizing the average number of megawatt hours of electricity sold annually during the previous three years to retail customers.

Section 71 (3)(g) Demonstrate that the providers EO programs, excluding low income programs, are collectively cost-effective;

The City of Niles programs were designed to meet the cost effective tests as required under PA 295 Sec. 73 (2). The two primary tests that were used to determine if the programs are reasonable and prudent are the Utility System Resource Cost Test and the Cost of Conserved Energy. The definitions

according to the California Standard Practices Manual for each of these tests are as follows.

Utility System Resource Cost Test (UCT)

The Utility System Resource Cost Test measures the net costs of an energy efficiency program as a resource option based on the costs incurred by the utility (including incentive costs) and excluding any net costs incurred by the participant. The <u>benefits</u> for the Utility System Resource Cost Test are the avoided supply costs of energy and demand, the reduction in transmission, distribution, generation, and capacity valued at marginal costs for the periods when there is a load reduction. The <u>costs</u> for the Utility System Resource Cost Test are the program costs incurred by the utility, the incentives paid to the customers, and the increased supply costs for the periods in which load is increased.

Cost of Conserved Energy (CCE)

The Cost of Conserved Energy is the average lifecycle cost of an efficiency measure or program expressed in cents per kWh saved over the life of the measures installed. The key benefit of calculating the Cost of Conserved Energy is to compare energy efficiency programs to energy supply options. This calculation places energy efficiency cost estimates at a level comparable to that for supply-side options.

A table of each program with the Utility Cost Test results and the estimated Cost of Conserved Energy is shown below.

Portfolio Category	Program	USRCT Results	CCE esults
	Low Income	N/A	N/A
	Efficient Lighting	6.7	\$ 0.013
	Refrigerator/Freezer Recycling	2.3	\$ 0.030
Residential	Efficient Appliances/Electronics	2.5	\$ 0.062
	Efficient HVAC Equipment	3.2	\$ 0.052
	Education Services	2.1	\$ 0.038
	Prescriptive Incentive Program	4.8	\$ 0.022
Business	Custom Incentive Program	7.9	\$ 0.014
	Education Services	2.1	\$ 0.038
Proje	Projected Annual Totals		\$ 0.020

^{*}The Cost of Conserved Energy is the 10 year levelized \$/kWh.

Section 71 (3)(h) Provide for practical and effective administration of the EO programs;

The overall administration of the City of Niles Energy Optimization Plan will be the responsibility of City of Niles personnel. The City of Niles is planning on working with an implementation contractor(s) and the roles and responsibilities of the implementation contractors will be as follows:

- a) Contract financial planning and budgeting,
- b) Proposing and providing delivery plans, implementation schedules/timelines, and milestones for each program,
- c) Data tracking/reporting,
- d) Trade ally recruitment, enrollment, training, technical seminars, workshops, and application completion support,
- e) Strategy and implementation planning/updates with the City of Niles energy programs staff,
- f) Communicate and coordinate marketing efforts with the City of Niles Marketing team,
- g) Call center coordinate customer interactions with the City of Niles call center staff, contractor to set up single telephone number to manage customer/trade ally questions/concerns,
- h) Provide incentive processing services,
- i) Implement a system for quality control and verification to ensure rebates paid out are for actual measures installed at the appropriate efficiency levels,
- Monitor customer satisfaction and implement a system for tracking complaints and satisfactory resolutions,
- Assist City of Niles with Michigan Public Service Commission data requests and explanations including participation (as requested) with any stakeholder meetings,
- Coordination with City of Niles Evaluation, Measurement and Verification (EM&V) contractor.

The City of Niles will make use of experienced City of Niles in-house personnel who will assure quality and compliance by providing oversight, guidance and direction to the outside implementation contractors. It will also work with the implementation contractors who have qualified and experienced staff with the technical capabilities and data tracking systems necessary to deliver the programs effectively. This combination will assure effective and efficient program administration.

Section 71 (3)(i) include a process for obtaining independent expert evaluation of the actual EO savings;

The City of Niles will be contracting with an independent third-party for the expert evaluation of the EO programs on an annual basis. This contractor will be responsible for verifying the incremental gross energy savings from each EO program and will be responsible for an annual report of such findings.

<u>SECTION 2: REQUIREMENTS UNDER ATTACHMENT E of MPSC Temporary</u> Order U-15800

MPSC Attachment E Section 3 (a) Plan Elements;

Energy Optimization Plan Development Methodology

In February of 2009, the City of Niles in cooperation with Michigan Municipal Electric Association (MMEA) contracted with Summit Blue and Wisconsin Energy Conservation Corporation (WECC) to prepare a portfolio of reliable and cost effective energy efficiency programs for implementation starting in 2009.

The City of Niles 2009 – 2012 Energy Optimization Program Portfolio outlines goals, budgets and programs that are designed to achieve the 4-year energy conservation targets identified in Michigan legislation Public Act 295 (PA 295). The programs in this plan were modeled based on typical measure characteristics used in similar "best practice" programs across the country, along with specific savings estimates from the new Michigan Deemed Savings Database. The programs were modeled using a cost/benefit analysis tool that provides results from several stakeholder perspectives. Specifically, the programs were selected based on the following objectives:

- To provide electric energy savings for residential and commercial/industrial customers through a portfolio of proven "best practice" energy efficiency programs that is cost effective from a Utility System Resource Cost perspective;
- To develop program designs that can achieve the required energy savings goals within the specified budget caps identified in PA 295;
- To outline a program ramp-up schedule that allows for a rapid start up of quality programs with high savings potential;
- To recommend potential opportunities to leverage program funding with other state, regional, and national efforts.

The City of Niles Energy Optimization Plan implementation strategy is to utilize existing market channels as the most efficient means to drive resource acquisition efforts while maximizing program spillover and sustainable market transformation effects. The programs in the portfolio work closely with market

providers in the utility's service territory to educate them on the benefits of selling high efficiency products and services and to assist them in marketing those benefits to their customers. This approach has been proven to induce positive spillover impacts.

The programs are designed to minimize free-ridership by motivating trade allies and customers to (1) pursue projects that they would otherwise not have implemented, 2) pursue these projects sooner than they otherwise would have, or 3) implement equipment/measures at a higher efficiency level than they would have otherwise.

Incentives are only offered on measures that exceed current codes and standards and are often "tiered" to encourage customers to implement the highest level of efficiency available.

Savings estimates for all measures are based on information in the Michigan Deemed Savings Database, including both weather-sensitive and non weather-sensitive measures. The eQuest model was used to assist in developing the baseline market profiles. The Summit Blue DSM Resource Assessment Model was used to estimate achievable potential for the utility's service area.

A spreadsheet model was used to conduct the benefit-cost analysis, using the projected avoided costs accepted by the MPSC. The model calculates benefit-cost results for each of the major and nationally-defined perspectives: Participant Test, Rate Impact Test, Total Resource Cost Test, and the Utility System Resource Cost Test, as well as the Cost of Conserved Energy.

MPSC Attachment E Section 1 (e) Plan Requirements;

Other cost-effective tests were utilized to determine cost effectiveness of the City of Niles programs and the definitions of those tests according to the California Standard Practices Manual are:

Total Resource Cost Test (TRC)

The Total Resource Cost Test measures the net costs of an energy efficiency program as a resource option based on the total costs of the program, including both the participants' and the utility's costs. This test represents the combination of the effects of a program on both the customers participating and those not participating in a program. The benefits calculated in the Total Resource Cost Test are the avoided supply costs, the reduction in transmission, distribution, generation, and capacity costs valued at marginal cost for the periods when there is a load reduction. The costs in this test are the program costs paid by both the utility and the participants. Thus all equipment costs, installation, operation and maintenance, and administration costs, no matter who pays for them, are included in this test. For DSM programs, those that pass the TRC test with a ratio

of greater than 1 are viewed as beneficial to the utility and its customers because the savings in electric costs outweigh the DSM costs.

Participant Test (PCT)

The Participants Test is the measure of the quantifiable benefits and costs to the customer due to participation in a program. The <u>benefits</u> of participation in a demand-side program include the reduction in the customer's utility bill and any incentive paid by the utility. The <u>costs</u> to a customer of program participation are all out-of-pocket expenses incurred as a result of participating in a program, plus any increases in the customer's utility bill.

The Ratepayer Impact Measure Test (RIM)

The Ratepayer Impact Measure (RIM) test measures what happens to customer bills or rates due to changes in utility revenues and operating costs caused by the program. This test indicates the direction and magnitude of the expected change in customer bills or rate levels. The <u>benefits</u> calculated in the RIM test are the savings from avoided supply costs. The <u>costs</u> for this test are the program costs incurred by the utility; the incentives paid to the participant, and decreased revenues for any periods in which load have been decreased.

A table with the multiple cost-effectiveness tests required for each program is shown below:

Portfolio Category	Program	Utility System Resource Cost Test	Total Resource Cost Test	Participant Test	Rate Impact Measure
	Low Income	N/A	N/A	N/A	N/A
Efficient Lighting		6.7	4.6	4.6	0.9
	Residential Refrigerator/Freezer Recycling Residential Efficient Appliances/Electronics		3.1	No Cost	0.8
Residential			1.3	1.1	1.0
	Efficient HVAC Equipment	3.2	1.7	1.9	1.2
	Education Services	2.1	2.1	No Cost	0.7
				<u>, </u>	
	Prescriptive Incentive Program	4.8	2.1	3.0	1.1
Business Custom Incentive Program		7.9	3.1	2.8	1.3
Education Services		2.1	2.1	No Cost	0.7
Proj	ected Annual Totals	5.2	2.5	3.1	1.1

MPSC Attachment E Section 3 (b-f) Plan Elements;

b) The EO portfolio summary (MPSC Table 2) can be found in Attachment A and a summary of each program (MPSC Table 1) is shown in Attachment B. Savings

estimates for all measures are based on the Michigan Deemed Savings Database. The City of Niles will reserve twenty percent of overall budget (by customer class) which will ensure program flexibility and allow for reallocation of funding to other programs that are more cost-effective or where technology or market participation impacts require additional resources.

- d) Three percent of the EO budget will be used on education programs. These budget expenditures will communicate and educate customers on the benefits of energy efficiency, conservation and load management. Budget funds for education will be deemed to generate a proportional amount of the required energy savings for each program year in which the money is spent. The City of Niles programs are designed to include an education component for both the Residential and Business customers.
- **e)** The City of Niles Plan includes a residential low income program and costs for this program will be recovered from each customer rate class in proportion to that rate class' funding of all programs.
- f) The City of Niles has set aside no more than eight percent of program budget for program evaluation, measurement and verification activities to determine actual program energy savings.

MPSC Attachment E Section 4 Self-Directed Energy Optimization Plan for Electric Customers;

No customers expressed an interest in developing their own "self directed" program.

SECTION 3: ADDITIONAL INFORMATION

Comment Proceedings;

The City of Niles will provide an opportunity for public comments on the Energy Optimization Plan. A public hearing to receive comments on the proposed plans will be held on May 11, 2009 at 5:50 PM at Council Chambers located at 1345 E. Main St., Niles, Michigan. Public comments that are not submitted with the Energy Optimization filing will be submitted to the MPSC prior to June 2, 2009

Cost Effectiveness of EO programs;

PA 295 Section 81 (1) addresses those electric providers who (a) Serve not more than 200,000 customers in this state and (b) Had average electric rates for residential customers using 1,000 kilowatt hours per month that are less than 75% of the average electric rates for residential customers using 1,000 kilowatt hours per month for all electric utilities in this state, according to the January 1, 2007, "comparison of average rates for MPSC-regulated electric utilities in

Michigan" compiled by the commission. The City of Niles meets the qualifications under PA 295 Section 81 (1). Although the City of Niles program goals and expenditures are designed to meet the requirements under PA 295, the depressed economic conditions in Michigan may impact the success of these programs if participation levels are not met.

Coordination of Energy Optimization Programs;

The City of Niles has and will continue to meet with other utilities and agencies regarding the coordination of programs.

Niles' Energy Optimization Program Portfolio Table 1

					200	09		201	10		201	1		201	2	
Portfolio Category	Program Portfolio	USRCT Results	CCI	E Results	Gross First Year kWh Savings		Program Budget	Gross First Year kWh Savings		Program Budget	Gross First Year kWh Savings		rogram Budget	Gross First Year kWh Savings		rogram Budget
Residential	Low Income Services	N/A		N/A	5,038	\$	3,275	8,615	\$	5,600	13,846	\$	9,000	19,154	\$	12,450
	Efficient Lighting	6.7	\$	0.013	76,471	\$	6,328	114,706	\$	9,493	172,059	\$	17,364	258,088	\$	26,047
	Refrigerator/Freezer Turn-In & Recycling	2.3	\$	0.030	98,989	\$	13,530	148,484	\$	21,033	222,725	\$	35,046	334,088	\$	54,351
	Efficient Appliances/Electronics	2.5	\$	0.062		\$	-	4,530	\$	2,132	6,795	\$	3,475	10,193	\$	5,277
	Efficient HVAC Equipment	3.2	\$	0.052		\$	-	2,368	\$	1,538	3,552	\$	2,475	5,328	\$	3,713
	Educational Services	2.1	\$	0.038	6,595	\$	983	10,436	\$	1,680	15,426	\$	2,700	20,460	\$	3,735
	Subtotal - Residential Solutions				187,093	\$	24,116	289,139	\$	41,475	434,403	\$	70,060	647,310	\$	105,572
Commercial &																
Industrial	Prescriptive Incentive Program	4.8	\$	0.022	165,192	\$	22,679	274,927	\$	37,943	398,644	\$	55,017	423,759	\$	58,483
	Custom Incentive Program	7.9	\$	0.014	80,810	\$	11,637	121,215	\$	17,455	181,822	\$	26,182	272,733	\$	39,274
	Educational Services	2.1	\$	0.038	6,595	\$	983	10,436	\$	1,680	15,426	\$	2,700	20,460	\$	3,735
	Subtotal - Business Solutions				252,596	\$	35,298	406,578	\$	57,078	595,892	\$	83,900	716,952	\$	101,492
	Total Program Portfolio				439,689	\$	59,414	695,717	\$	98,553	1,030,296	\$	153,960	1,364,262	\$	207,064
Portfolio-Level									•	5 000						
Costs	Utility Program Administration					\$	3,275		\$	5,600		\$	9,000		\$	12,450
	Evaluation (EM&V)					\$	2,620		\$	4,480		\$	7,200		\$	9,960
	Subtotal - LBWL Admin/Evaluation					\$	5,895		\$	10,080		\$	16,200		\$	22,410
	Projected Annual Totals	5.2	\$	0.020	439,689	\$	65,309	695,717	\$	108,633	1,030,296	\$	170,160	1,364,262	\$	229,474

Niles' Proposed Energy Optimization Programs – Table 2 Residential Programs

Program Element	Services for Residential Customers with Limited Incomes
Objective	 Provide recommendations, financial assistance and education to customers with limited income to assist them in reducing their electric energy use and managing their utility costs. Coordinate low-income services with other utilities and with local weatherization providers in order to provide comprehensive assistance at lower administrative costs.
Target Market	Residential customers whose income is estimated to be below 200% of poverty level. Services will be targeted to diverse segments of the population including those living in single family and multi-family buildings, home owners and renters, and to the extent possible – age and ethnic diversity.
Program Duration	Start-up in Summer 2009. Services for customers with limited income will be an ongoing element of the program portfolio.
Program Description	Services for customers with limited income will be closely coordinated with the local weatherization agency and other applicable State and utility programs. In an ongoing effort, the utility intends to work with the agency responsible for implementing the Federal LIHEAP program to leverage their funding by subsidizing the installation of cost-effective electric measures, thereby increasing the number of homes served through the program.
Eligible Measures	Cost effective electric measures that will be permissible for this program include CFL's, refrigerator replacement, furnaces with high-efficiency motors, and weatherization measures that can reduce central air-conditioning use.
Implementation Strategy	Coordination with the local weatherization agency to subsidize the installation of cost-effective electric measures.
Marketing Strategy	Marketing will be closely coordinated with the local weatherization agency and the utility's implementation contractor. Key elements of the marketing strategy include: Targeted outreach through local agencies Posters in municipal buildings and at local community events
Milestones in 2009	February-March: Develop Energy Optimization Plan April: File Energy Optimization Plan with MPSC April-May: Select program implementation contractor July: Launch program
EM&V Requirements	Evaluation activity will focus on verification of installation and estimates of deemed savings.
Estimated Participation	Participation levels to be determined.

Estimated Budget						
	Annual Budgets					
	2009	2010	2011	2012		
	\$3,275	\$5,600	\$9,000	\$12,450		
Savings Targets					<u> </u>	
		Energy Savings (C	Gross Annual kWh)			
	2009	2010	2011	2012		
	5,038	8,615	13,846	19,154		

Residential Programs

Program Element	Residential Efficie	nt Lighting Program		
Objective		nual energy savings in the re efficiency lighting products so		
Target Market		ers purchasing bulbs and fixt perty owners and customers		
Program Duration	Start-up in July 2009 a	and will be an ongoing eleme	ent of the program portfolio.	
Program Description	initiatives in order to e opportunities and mot retailers. Customer in	ng Program will be closely consure that residential custon ivation to purchase high efficientives facilitate the increase support makes provider pa	ners across the State have on Siency lighting products at loo sed purchase of high-efficier	consistent cal
Eligible Measures		L's, Energy Star Lighting Fix stimated gross energy savin		ans and
	Measure	Eligibility	Gross Annual kWh Savings/ Unit	
	CFL	Energy Star	44.1	
	Fixture	Energy Star	78	
	Ceiling Fan	Energy Star	78	
	LED Holiday Lights		11	
Implementation Strategy	will work closely w	nation with other utilities: I vith other appropriate Michiga materials, and market provid	an utilities to coordinate ince	
	implementation co	tailer recruitment for buy-dontractor will work closely wit iler participation for the mark	th other Michigan utilities to	solicit
		nent, education and outread ruit local retailers for particip		
	•	esing: The utility's implement uiler/customer incentive paym	•	prompt
	bulb collection at	The utility's implementation call participating retailers. Retand transportation for the bir	ailers will be given training o	_

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	Meas	sure Elig	ibility Incentiv	re per Unit		
	CFL	Energy S	tar	\$1.50		
	Fixture	Energy S	tar	\$15.00		
	Ceiling Fan	Energy S	Star	\$15.00		
	LED Holiday	Lights		\$3.00		
		,	<u>'</u>			
Marketing Strategy Milestones in 2009	The program will primarily be marketed through displays and materials at particip retailers. Materials will employ a strong consumer education component emphasis the benefits of high-efficiency lighting products (lifetime dollar savings, energy sat longer life, safety, appropriate light quality, etc.) Marketing materials will leverage ENERGY STAR brand, which enjoys a high level of consumer recognition and fat associations. Key elements of the marketing strategy include: • Point-of-purchase displays • Cooperative advertising with retailers February-March: Develop Energy Optimization Plan					
		optimization Plan with program implementat am				
EM&V Requirements	Statewide Deemed	lues were based on on Savings Database (a vill focus on verification	s identified by MPS0	•		
Estimated Participation	Pa	articipation (in Units	of Installed Measu	ires)		
	2009	2010	2011	2012		
	1,784	2,676	4,014	6,021		
Estimated Budget						
		Annual	Budgets			
	2009	2010	2011	2012		
	\$6,328	\$9,493	\$17,364	\$26,047		
Savings Targets		1	1	<u>, </u>		
		Energy Savings (Gross Annual kWh			
	2009	2010	2011	2012		
	76,471	114,706	172,059	258,088		
		J	1			

Residential Programs

Program Element	Residential Refrigerator	r/Freezer Turn-In and	d Recycling Program				
Objective	Produce long-term annual energy savings in the residential sector by removing operable, inefficient refrigerators and freezers from the power grid and recycling them in an environmentally safe manner.						
Target Market		Residential customers who are currently operating older, inefficient refrigerators and/or freezers either as primary or secondary units.					
Program Duration	Start-up in July 2009 and w	ill be an ongoing elemer	nt of the program portfolio.				
Program Description	The average household replaces a refrigerator every ten years. However, many of the refrigerators being replaced are still functioning, so they often become backup appliances – energy guzzlers in basements and garages – or sold in a used-market. The Turn-In Program will be established to target those "second" refrigerators and freezers, providing the dual benefit of cutting energy consumption and keeping the appliances out of the used-market.						
Eligible Measures	values were based on docu	mented values from the ified by MPSC Order U- ordance with current ma					
	Measure	Eligibility	Gross Annual kWh Savings/ Unit				
	Recycled Refrigerator	Operable unit	1,672				
	Recycled Freezer	Operable unit	1,551				
Implementation Strategy	will work closely with ot levels, eligibility require contractor. • Turn-key appliance pi select a qualified recycl implementation services proper disposal and recontractive coordination.	her appropriate Michigar ments, marketing materi ck-up/recycling: The ut ing service subcontractors from eligibility verificating ycling of turned-in applia	utility's implementation contrac	ve gg or will urn-key to			
	Incentives for this progra	m will be \$20 per unit.					
Marketing Strategy	the cost of operating older, ENERGY STAR qualified m	inefficient appliances, th odels, and the importan	r education message emphasize benefits of early replacement ce of proper disposal and recy ENERGY STAR brand, which	nt with cling			

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	a high level of consumer recognition and favorable associations. Key elements of the marketing strategy include:					
	Website links to EPA's new "ENERGY STAR Recycle My Old Fridge Campaign" at www.recyclemyoldfridge.com. Includes calculators to estimate savings.					
 Point-of-purchas 	e displays					
Cooperative adv	ertising with retailers					
Posters in munic	cipal buildings					
April: File Energy Op April-May: Select p	February-March: Develop Energy Optimization Plan April: File Energy Optimization Plan with MPSC April-May: Select program implementation contractor July: Launch program					
Evaluation activity w savings.	Evaluation activity will focus on verification of installation and estimates of deemed savings.					
Pa	rticipation (in Units	of Installed Measur	es)			
2009	2010	2011	2012			
60	90	135	203			
	<u> </u>	<u> </u>				
	Annual	Budgets				
2009	2010	2011	2012			
\$13,530	\$21,033	\$35,046	\$54,351			
	ı	<u> </u>				
Energy Savings (Gross Annual kWh)						
2009	2010	2011	2012			
98,989	148,484	222,725	334,088			
	Website links to www.recyclemyconsidering strategy in www.recyclemyconsidering Point-of-purchasen Cooperative advenues Posters in municonsidering Poste	marketing strategy include: Website links to EPA's new "ENERG www.recyclemyoldfridge.com. Include Point-of-purchase displays Cooperative advertising with retailers Posters in municipal buildings February-March: Develop Energy Optim April: File Energy Optimization Plan with April-May: Select program implementation July: Launch program Evaluation activity will focus on verification savings. Participation (in Units 2009 2010 90 Annual 2009 2010 \$13,530 \$21,033	Website links to EPA's new "ENERGY STAR Recycle My www.recyclemyoldfridge.com. Includes calculators to estin Point-of-purchase displays Cooperative advertising with retailers Posters in municipal buildings February-March: Develop Energy Optimization Plan April: File Energy Optimization Plan with MPSC April-May: Select program implementation contractor July: Launch program Evaluation activity will focus on verification of installation and esavings. Participation (in Units of Installed Measur 2009 2010 2011 60 90 135 Annual Budgets 2009 2010 2011 2011 \$13,530 \$21,033 \$35,046			

Residential Programs

Program Element	Residential High-Efficier	ncy Appliances	and Electronics	Program			
Objective	Produce long-term annual energy savings in the residential sector by promoting high-efficiency appliances and electronics. Initially the program will promote high-efficiency clothes washers and the early retirement and recycling of older, inefficient room air-conditioners and dehumidifiers and replacement with ENERGY STAR units.						
Target Market	operating older, inefficient room	Residential customers purchasing new clothes washers and customers who are currently operating older, inefficient room air-conditioners and dehumidifiers. Residential rental property owners are also eligible.					
Program Duration	Start-up in 2010. This will be an	ongoing element	of the program portfoli	0.			
Program Description	This program will provide incentives to customers to encourage them to replace their older, inefficient dehumidifiers and room air-conditioners with high-efficiency ENERGY STAR qualified units. Since the retail market share of ENERGY STAR dehumidifiers and room air-conditioners is high, this program focuses instead on rewarding early replacement of older units that are still functioning. The program will partner with a local retailer to sponsor special turn-in events at which customers receive a rebate toward the purchase of a new ENERGY STAR qualified dehumidifier and/or room air conditioner when they turn in a functioning used unit. Customers also receive a rebate for turning in a functioning unit even if they are not purchasing a new one. Turned-in units will be collected at each event and transported for appropriate recycling. The program will also provide incentives for clothes washers that meet the highest efficiency standards (CEE Levels 2 & 3). This initiative will be coordinated with the local natural gas utility so that the electric utility pays a portion of the incentive based on the estimated % of customers with electric water heating and the natural gas utility pays a portion of the incentive based on the estimated % of customers with gas water heating. In future years, the program may target other cost-effective options for high-efficiency appliances and electronics.						
Eligible Measures	The measures listed below have been specified for planning purposes. Deemed savings values were based on documented values from the Michigan Statewide Deemed Savings Database (as identified by MPSC Order U-15800.) The utility will revise eligible measures as needed in accordance with current market conditions, technology development, EM&V results, and program implementation experience						
	Measure	Eligibility	Gross Annual kWh Savings/ Unit				
	Clothes Washer	CEE Level 2	322				
	Clothes Washer	CEE Level 3	372				
	Room AC Purchase	ENERGY STAR	42				
	Room AC Turn-in	Operable unit	113				
	Dehumidifier Purchase	ENERGY STAR					

					Attachn	ieiii b
	Dehumidifier ⁻	Turn-in Operabl	e unit	139		
Implementation						. "
Strategy	work closely with	lination with other under other appropriate Manners, marketing manners,	lichigan utiliti	es to coordinate in		
	will utilize a field determining the	ment, education and representative to factorial volume of units by re	cilitate the rec tailer to mee	cruitment of a host t the program's un	retailer(s) ir it goal.	ncluding
	coordinate the d	lination and proces elivery of rebate cou processing of incenti	oons and ma	terials to participat		
	the host retailer(The contractor w	in and recycling: The second of the last the last the last coordinate the last the municipal wasters	ogistics of the e collection, t	e turn-in compone transportation and	nt of the pro recycling of	motion. turned-
	Ме	asure	Eligibility	Incentive per Unit]	
	Clothes Wash	er CE	E Level 2	\$50		
	Clothes Wash	er CE	E Level 3	\$50		
	Room AC Pur	chase EN	IERGY STAR	\$15		
	Room AC Tur	n-in Op	erable unit	\$20	1	
	Dehumidifier I	Purchase EN	IERGY STAR	\$15		
	Dehumidifier ⁻	Гurn-in Ор	erable unit	\$20		
Marketing Strategy Milestones	All marketing materials will carry a strong consumer education message emphasizing the cost of operating older, inefficient appliances and the benefits of early replacement with ENERGY STAR qualified models (lifetime dollar savings, energy savings, lower noise, etc.). Marketing materials will leverage the ENERGY STAR brand, which enjoys a high level of consumer recognition and favorable associations. Key elements of the marketing strategy include: • Point-of-purchase displays • Cooperative advertising with retailers • Posters and Outside banner for turn-in events February-March: Develop Energy Optimization Plan April: File Energy Optimization Plan with MPSC April-May: Select program implementation contractor July 2010: Launch program					
EM&V Requirements	Evaluation activity will focus on verification of installation and estimates of deemed savings.					
Estimated Participation	Pa	rticipation (in Units	of Installed	Measures)		
ι αποιρατίστι	2009	2010	2011	1 20	012	
		36	54	3	31	

Estimated Budget						
	Annual Budgets					
	2009	2010	2011	2012		
		\$2,132	\$3,475	\$5,277		
Savings Targets				<u></u>		
		Energy Savings (C	Gross Annual kWh)			
	2009	2010	2011	2012		
		4,530	6,795	10,193		

Residential Programs

Program Element	Residential High-Efficience	cy HVAC Equi	pment			
Objective	Produce long-term annual energy savings in the residential sector by promoting the purchase and installation of high-efficiency heating and cooling equipment.					
Target Market	Residential customers installing	new central AC ur	nits and/or furnaces.			
Program Duration	Start-up in 2010. This will be an	ongoing element o	of the program portfolio.			
Program Description	The High-Efficiency Equipment program will promote heating and cooling technologies that can reduce electric energy use. Initially the program will focus on the promotion of high-efficiency central air-conditioning and premium efficiency furnaces that have high-efficiency motors (electrically commutated motors – ECMs). ECM motors save electric energy during the heating and cooling seasons. Although federal efficiency standards for central air-conditioning have recently increased, there are still opportunities to promote units that exceed the current standards and thus achieve additional energy savings. The program will provide incentives for high-efficiency central air-conditioners when installed along with an ECM furnace. Since the primary type of heating system in the utility's service area is natural gas forced air, this program hopes to closely coordinate with the local natural gas provider so that incentives can be coordinated on units that have the high-efficiency motors. As the program matures, additional emphasis may be placed on quality installation and appropriate sizing to further enhance energy savings.					
Eligible Measures	The measures listed below have been specified for planning purposes. Deemed savings values were based on documented values from the Michigan Statewide Deemed Savings Database (as identified by MPSC Order U-15800.) The utility will revise eligible measures as needed in accordance with current market conditions, technology development, EM&V results, and program implementation experience.					
		Eligibility	Gross Annual kWh Savings/ Unit			
	Central AC	SEER 14	497			
	Central AC	SEER 15	532			
	Central AC	SEER16	396			
	Furnace with ECM motor	ECM motor	421			

Implementation Strategy	work closely with		lichigan utilitie	utility's implementation of the continuity of the continuity in the continuity is to coordinate incentive.		
	Contractor recruitment, education and outreach. The utility's implementation contractor will utilize a field representative to facilitate the recruitment of local HVA contractors to participate in the program.					
	Application pro		s implementat	ion contractor will coord	linate	
	Ме	easure	Eligibility	Tentative Incentive per Unit]	
	Central AC	SE	ER 14	\$100	1	
	Central AC	SE	ER 15	\$250	1	
	Central AC	SE	ER16	\$350		
	Furnace with	ECM motor EC	CM motor	\$150		
Milestones	materials to share with their customers as well as access to cooperative advertising dollars. Marketing materials will be coordinated with the local natural gas provider. February-March: Develop Energy Optimization Plan April: File Energy Optimization Plan with MPSC April-May: Select program implementation contractor July 2010: Launch program					
EM&V Requirements Estimated	Evaluation activity w	ill focus on verification	on of installatio	on and estimates of dee	med savings.	
Participation	Pa	rticipation (in Units	of Installed I	Measures)		
	2009	2010	2011	2012		
		5	8	11		
Estimated Budget		1	1			
		Annual	Budgets			
	2009	2010	2011	2012		
		\$1,538	\$2,475	\$3,713		
Savings Targets				·		
		Energy Savings (Gross Annual	kWh)		
	2009	2010	2011	2012		
		2,368	3,552	5,328		

Residential Programs

Program Element	Residential Edu	cation Services					
Objective	 To develop broad consumer awareness of the benefits of energy conservation and efficiency. To provide educational materials and services that motivate customers to participate in the utility's energy optimization programs and to motivate behavior change that can further reduce energy consumption. 						
Target Market	All residential custon	ners					
Program Duration	Start-up in July 2009	. Will be an ongoing	element of the progra	am portfolio.			
Program Description		build and expand co		ans to implement educ of energy efficiency a			
Eligible Measures	Not applicable for thi	s program.					
Implementation Strategy	 The following types of initiatives will be considered for implementation: Develop, produce, and distribute energy efficiency tips and information about the energy efficiency portfolio through bill inserts and newsletters. Work with local Chamber of Commerce, Mayor's office, municipal government agencies and other civic organizations to distribute educational material promoting the benefits of energy conservation and efficiency. Make presentations at their constituent meetings and other joint ventures. Provide energy education/awareness booths at scheduled community fairs and trade shows. 						
Marketing Strategy	See implementation	strategy for a list of n	narketing activities.				
Milestones in 2009	February-March: Develop Energy Optimization Plan April: File Energy Optimization Plan with MPSC April-May: Select program implementation contractor July: Launch program						
EM&V Requirements	None at this time.	None at this time.					
Estimated Participation	To be determined.						
Estimated Budget							
		Annual	Budgets				
	2009	2010	2011	2012			
	\$983	\$1,680	\$2,700	\$3,735			

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Energy Savings (Gross Annual kWh)				
2009	2010	2011	2012	
6,595	10,436	15,426	20,460	

Business Programs

Program Element	Commercial Prescriptive Incentive Program
Objective	There are two primary objectives for the Commercial Prescriptive Incentive Program: 1) Increase the market share of a targeted group of commercial high-efficiency electric technologies sold through market channels. 2) Increase the installation rate of a targeted group of high-efficiency electric technologies in commercial facilities by businesses that would not have done so in the absence of the program.
Target Market	All business customers are eligible to participate in the Commercial Prescriptive Incentive Program when they purchase qualifying equipment. However, the program will utilize a targeted outreach strategy to influence specific markets. 1) Market Providers (wholesalers, distributors, contractors, and retail stores that will promote the qualifying technologies) 2) High-impact/high-need customer sectors (such as schools, municipal buildings, hospitals, food service, and hospitality)
Program Duration	Start-up in July 2009. The Prescriptive Incentive Program will be an ongoing element of the program portfolio.
Program Description	The program will affect the purchase and installation of high-efficiency technologies through a combination of market push and pull strategies that stimulate market demand while simultaneously increasing market provider investment in stocking and promoting them. The program will increase demand by educating business customers about the energy and money saving benefits associated with efficient products and equipping market providers to communicate those benefits directly to their customers. To address the first-cost barrier for customers, the program will utilize financial incentives (i.e. cash-back mail-in rebates) averaging 20% to 40% of the incremental cost of purchasing qualifying technologies. The program will stimulate market provider investment in stocking and promoting efficient products through a targeted outreach effort. The implementation contractor will employ field sales representatives to proactively train and equip market providers to convey the energy and money saving benefits to consumers. Further, the existence of cash-back incentives will elevate efficiency to a competitive issue that will naturally motivate market providers to stock and promote targeted products.
Eligible Measures	The Prescriptive Incentive Program targets measures where the unit energy savings can be reliably predicted and therefore standard per-measure savings ("deemed savings") and incentive levels can be established. This simplifies the application process and reduces administrative costs. The measures, savings and incentive levels listed below have been specified for planning purposes only. Deemed savings values were based on documented values from the Michigan Statewide Deemed Savings Database (as identified by MPSC Order U-15800.) The utility will revise eligible measures and incentive levels as needed in accordance with current market conditions, technology development, EM&V results, and program implementation experience. Table below shows both energy savings and proposed incentive levels.

Measure	Incentive per Unit	Electrical Energy Savings Unit (kWh)
Lighting	per em.	(,
Central lighting Control	\$600.00	11,50
Daylighting Controls - Automatic stepped, minimum 3 lighting levels	\$900.00	14,80
Occupancy Sensors - < 500 Watts	\$30.00	39
Occupancy Sensors - ≥ 500 Watts	\$50.00	99
Occupancy Sensors or Multi-level Switching	\$600.00	8,00
Exterior Bi-Level Control W/ override 150-1000W HID	\$125.00	74
Sports Field Hi-Low Control	\$175.00	14
CFL ≤30 Watts - Replaces Incandescent	\$2.00	20
CFL High Wattage > 31Watts - Replaces Incandescent	\$5.00	20
CFL Fixture - Replaces Incandescent Fixture	\$22.00	34
CFL Reflector Flood Lamps - Replaces incandescent reflector flood lamps	\$5.00	14
T8 4ft 1 lamp	\$7.50	4
T8 4ft 2 lamp	\$9.00	7
T8 4ft 3 lamp	\$16.50	12
T8 4ft 4 lamp	\$19.50	14
T8 8ft 1 lamp	\$10.50	4
T8 8ft 2 lamp	\$13.50	7
T8 2ft 1 lamp	\$7.50	2
T8 2ft 2 lamp	\$9.00	3
T8 2ft 3 lamp	\$9.30	7
T8 2ft 4 lamp	\$12.00	8
T8 3ft 1 lamp	\$7.50	4
T8 3ft 2 lamp	\$9.00	3
T8 3ft 3 lamp	\$12.75	4
T8 3ft 4 lamp	\$18.00	7
T5 1L (w/electronic ballast) replacing T12	\$10.50	4
T5 2L replacing T12	\$15.00	4
T5 3L replacing T12	\$18.00	9
T5 4L replacing T12	\$21.00	8
T5 HO 1L replacing T12	\$12.00	5
T5 HO 2L replacing T12	\$16.50	7
T5 HO 3L replacing T12	\$19.50	9
T5 HO 4L replacing T12	\$22.50	19
T8 LW HP 1L-4 ft	\$6.00	2
T8 LW HP 2L-4 ft	\$9.00	4
T8 LW HP 3L-4 ft	\$15.00	6
T8 LW HP 4L-4 ft	\$18.00	9
T8 HO 8 ft 1 Lamp	\$18.00	9
T8 HO 8 ft 2 Lamp	\$24.00	18
T12 8ft 1 lamp retrofit to HPT8 T8 4ft 2 lamp	\$15.00	6
T12 8ft 2 lamp retrofit to HPT8 T8 4ft 4 lamp	\$22.50	4
T12HO 8ft 1 lamp retrofit to HPT8 T8 4ft 2 lamp	\$20.00	17
T12HO 8ft 2 lamp retrofit to HPT8 T8 4ft 4 lamp	\$30.00	29
HPT8 4ft 1 lamp, T8 to HPT8	\$4.00	1

HPT8 4ft 2 lamp, T8 to HPT8	\$6.00	31
HPT8 4ft 3 lamp, T8 to HPT8	\$10.00	35
HPT8 4ft 4 lamp, T8 to HPT8	\$12.00	52
HPT8 4ft 1 lamp, T12 to HPT8	\$6.00	63
HPT8 4ft 2 lamp, T12 to HPT8	\$8.00	82
HPT8 4ft 3 lamp, T12 to HPT8	\$12.00	145
HPT8 4ft 4 lamp, T12 to HPT8	\$16.00	170
LW HPT8 4ft 1 lamp, T8LWT8	\$6.00	29
LW HPT8 4ft 2 lamp, T8LWT8	\$9.00	48
LW HPT8 4ft 3 lamp, T8LWT8	\$15.00	62
LW HPT8 4ft 4 lamp	\$18.00	92
High Bay T5 HO 3L	\$80.00	449
High Bay T5 HO 4L	\$96.00	882
High Bay T5 HO 6L	\$150.00	374
High Bay T5 HO 6L (double fixture replacing 1000w HID)	\$300.00	1,456
High Bay T8 F32 4L	\$75.00	616
High Bay T8 F32 6L	\$80.00	961
High Bay T8 F32 8L	\$100.00	649
High Bay T8 F32 8L (double fixture replacing 1000W HID)	\$200.00	2,005
High Bay CFL 42W 8L	\$75.00	345
Metal Halide (MH), Electronic Ballast, Pulse Start (retrofit only)	\$75.00	430
LED HE Exterior - replaces ≤ 175W Induction HID (retrofit only)	\$120.00	268
LED HE Exterior - replaces 175-250W Induction HID (retrofit only)	\$150.00	409
LED HE Exterior - replaces 250-400W Induction HID (retrofit only)	\$180.00	706
LED HE Garage - replaces ≤ 175W Induction HID (retrofit only)	\$120.00	611
LED HE Garage - replaces 175-250W Induction HID (retrofit only)	\$150.00	936
LED HE Garage - replaces 250-400W Induction HID (retrofit only)	\$180.00	1,614
LED Exit Lighting - (retrofit only)	\$12.50	201
LED Traffic Signal	\$25.00	275
LED Pedestrian Signals	\$50.00	150

HVAC		
A/C <65 MBh, ≥ 14.0SEER or ≥ 11.6 EER	\$150.00	369
A/C 65-134 MBh, ≥ 11.5 EER	\$400.00	1,008
A/C 135-239 MBh, <u>></u> 11.5 EER	\$800.00	2,916
A/C 240-759 MBh, ≥ 10.5 EER	\$1,000.00	3,222
Heat Pump <65 MBh, ≥ 14.0SEER or ≥ 11.6 EER	\$130.00	220
Heat Pump 65-134 MBh, ≥ 11.5 EER	\$400.00	639
Heat Pump 135-239 MBh, ≥ 11.5 EER	\$700.00	774
Heat Pump 240-759 MBh, ≥ 10.5 EER	\$900.00	1,386
Air Cooled Chiller	\$8,000.00	29,565
Water Cooled Chiller < 150 ton	\$2,000.00	15,120
Water Cooled Chiller 150 - 300 ton	\$9,200.00	45,540
Water Cooled Chiller > 300 ton	\$40,000.00	198,000

Motors		
Motor $1 \le X < 5 \text{ HP}$	\$40.00	113

Motor 7.5 ≤ X < 20 HP	\$104.00	408
Motor 25 ≤ X < 100 HP	\$275.00	1,056
Motor 125 ≤ X < 250 HP	\$720.00	2,435

Drives		
Drive 1.5 HP	\$90.00	1,623
Drive 2 HP	\$120.00	2,165
Drive 3 HP	\$180.00	3,246
Drive 5 HP	\$300.00	5,357
Drive 7.5 HP	\$450.00	8,116
Drive 10 HP	\$600.00	10,713
Drive 15 HP	\$900.00	16,232
Drive 20 HP	\$1,200.00	21,643
Drive 25 HP	\$1,500.00	27,054
Drive 30 HP	\$1,800.00	32,465
Drive 40 HP	\$2,400.00	43,286
Drive 50 HP	\$3,000.00	54,108
Drive - Planning Purposes	\$2,500.00	78,269

Food Service		
Vending Equipment Controller	\$50.00	800
ENERGY STAR Commercial Solid Door Refrigerators < 20ft3	\$125.00	905
ENERGY STAR Commercial Solid Door Refrigerators 20 to 48 ft3	\$250.00	1,069
ENERGY STAR Commercial Solid Door Refrigerators > 48ft3	\$450.00	1,361
ENERGY STAR Commercial Solid Door Freezers less than 20ft3	\$75.00	520
ENERGY STAR Commercial Solid Door Freezers 20 to 48 ft3	\$200.00	507
ENERGY STAR Commercial Solid Door Freezers > 48ft3	\$350.00	483
ENERGY STAR Ice Machines less than 500 lbs	\$300.00	1,652
ENERGY STAR Ice Machines 500 to 1000 lbs	\$450.00	2,695
ENERGY STAR Ice Machines more than 1000 lbs	\$1,000.00	6,048
ENERGY STAR Steam Cookers 3 Pan	\$450.00	11,188
ENERGY STAR Steam Cookers 4 Pan	\$600.00	12,159
ENERGY STAR Steam Cookers 5 Pan	\$750.00	13,139
ENERGY STAR Steam Cookers 6 Pan	\$900.00	15,170
ENERGY STAR Hot Holding Cabinets Half Size	\$350.00	1,788
ENERGY STAR Hot Holding Cabinets Three Quarter Size	\$400.00	2,832
ENERGY STAR Hot Holding Cabinets Full Size	\$600.00	5,278
ENERGY STAR Fryers	\$225.00	983
Griddle - cooking efficiency = 0.70	\$300.00	1,637
Convection Ovens - cooking efficiency = 0.70	\$300.00	2,262
Combination Ovens - cooking efficiency = 0.60	\$1,500.00	18,432
Pre Rinse Sprayers - < 1.6 gpm	\$25.00	1,396
Anti Sweat Heater Controls	\$100.00	1,489

Implementation Strategy

- Planning coordination with other utilities: The utility's implementation contractor will
 work closely with other appropriate Michigan utilities to coordinate incentive levels,
 eligibility requirements, marketing materials, and outreach.
- Outreach to market providers. The implementation contractor will inform and recruit

	participating market providers. Outreach will include orientation meetings and
	conducting in-person visits aimed at training and equipping market providers to communicate program information to customers. The Contractor will ensure that providers have an updated stock of program materials. Key market providers that will be targeted include:
	Lighting distributors, wholesalers,
	HVAC distributors and retail contractors
	Motors/compressed air vendors
	Food service equipment distributors and retailers
	Engineering firms
	Outreach to targeted customers. The implementation contractor will personally contact energy managers and decision makers within the targeted customer sectors. The Contractor will assist business customers in determining whether the prescriptive incentives or the custom approach would be most appropriate for their operations. The utility's customer service representatives may also assist with outreach within the course of their regular contacts with business customers.
Marketing Strategy	The Commercial Prescriptive Incentive Program will employ the following marketing strategies:
	Engage market providers. Outreach and training will be provided to a targeted group of providers that have business motivations for promoting Prescriptive Incentives to their customers.
	Directly market to targeted customers. Depending on potential budget limitations, the utility may decide to initially pursue a very targeted marketing strategy with business customers to ensure that the program isn't over-subscribed. Initial targeted customer sectors might include schools, municipal office buildings, retail, food service, and lodging.
Milestones in 2009	February-March: Develop Energy Optimization Plan April: File Energy Optimization Plan with MPSC April-May: Select program implementation contractor July: Launch program
EM&V Requirements	The utility's implementation contractor will be responsible for implementing the following types of measurement and verification activities to facilitate the utility's third-party evaluation work:
	Collect and track all customer, measure installation, and incentive data.
	 Verify that each product on which incentives are paid meets the prescribed efficiency standards using third party databases (e.g. ENERGY STAR, GAMA, ARI). Products that cannot be verified using a credible third party database will be considered on a case-by- case basis; product performance information will be requested from the contractor or manufacturer and efficiency will be verified by a qualified engineer.
	 Conduct on-site inspections of 2% to 5% of equipment for which customers receive incentives to verify that products were installed and that the model and serial numbers match those provided on the incentive claim. Any inconsistencies will be researched and the resolution recorded. Market providers associated with inconsistencies will receive follow up inspections on projects that they are associated with.
Estimated	
Participation	Participation (in Units of Installed Measures)

	2009	2010	2011	2012
	750	1,247	1,809	1,923
Estimated Budget				
		Annual	Budgets	
	2009	2010	2011	2012
	\$22,679	\$37,943	\$55,017	\$58,483
Savings Targets				
		Energy Savings (C	Gross Annual kWh)	
	2009	2010	2011	2012
	165,192	274,927	398,644	423,759

Business Programs

Program Element	Commercial/Industrial Custom Incentive Program				
Objective	Affect the installation of site-specific and unique energy efficiency technologies and process improvements (that do not fit the parameters of the prescriptive incentive program) by business customers that would not have done so in the absence of the program.				
Target Market	The Custom Incentive Program will be available to all commercial and industrial customers. The program will serve all customer requests, but the utility will work with its implementation contractor to identify a select group of customers whose operations could most benefit from a custom approach. Target markets could include: • Large manufacturing facilities • Hospitals • Schools				
Dua mana Dunatia a	Lodging/hospitality Chart we in this 2000. The Contain locartine Branch will be an again a clare at a fit be				
Program Duration	Start-up in July 2009. The Custom Incentive Program will be an ongoing element of the program portfolio.				
Program Description	The utility is interested in providing a seamless set of energy efficiency services to its business customers. Over the long term, the Custom Incentive Program will allow the utility to develop and enhance the assistance they can provide to businesses with unique opportunities – including industrial process improvements, emerging technologies, and new facility design and/or modernization.				
	The Custom Incentive Program helps customers and market providers identify more complex energy savings projects, analyze the economics of each project, and complete a customized incentive grant application. If additional budget is available, the program could also approve and co-fund a limited number of investment-grade audits and/or feasibility studies to assess opportunities and motivate the customer to take action.				
Eligible Measures	The Custom Incentive Program identifies unique measures for each participant, so specific savings and incentives are determined when the project is specified. Any cost-effective electrical measure that is not covered by the Prescriptive Incentive Program is potentially eligible.				
Implementation Strategy	Key elements of the implementation strategy include:				
Эн ац ь ду	 Outreach to targeted customers. The utility's implementation contractor will work closely with the utility to identify and conduct face-to-face meetings with key end-use customers to recruit their participation. The contractor will target decision makers within the customer's organization including: energy managers, facility managers, financial and operations managers, chief engineer and facility/property managers, maintenance supervisors, and building operators. Outreach to key influencers. The implementation contractor's energy advisor(s) will work to generate awareness of the Custom Incentive Program through presentations and seminars with appropriate trade associations (ASHRAE, BOMA, school administrators, 				

	Attachment B				
	 Outreach to market providers. The energy advisor(s) will also conduct in person visits to key market providers at their place of business to recruit their support in providing referrals of custom incentive projects. Technical assistance: The implementation contractor's energy advisors will provide engineering support to identify and analyze the cost-effectiveness of energy saving opportunities. The energy advisor will work with the customer and/or market provider to complete custom engineering calculations that assess the energy savings potential, payback horizon, project eligibility, and incentive amount. If the project is deemed eligible, the advisor will assist the customer or market provide in completing a Custom Incentive grant application. Quality assurance: Incentive applications will be subject to a quality assurance review by program technical staff to ensure accuracy of savings estimates and incentive calculations. Verification: The implementation contractor will provide on-site verification for a specified % of completed projects. 				
Marketing Strategy	The marketing strategy for the Custom Incentive Program is a very direct networking approach with trade groups, business associations, and key customers. The program will affect the purchase and installation of efficient technologies or implementation of process improvements by working directly with: • Key end-use customers, and • Market providers – to identify potential energy savings projects, analyze the economics of each project, and complete an incentive grant application. This strategy for prospecting for projects is highly dependent upon referrals and networking				
Milestones in 2009	with trade allies and utility staff to identify projects. February-March: Develop Energy Optimization Plan April: File Energy Optimization Plan with MPSC April-May: Select program implementation contractor July: Launch program				
EM&V Requirements	To facilitate accurate measurement and verification the utility will collect the following information on each incentive transaction: Business customer data (e.g. name, address, telephone, e-mail) Installation data (e.g. address, date, contactor) Complete project and measure information (e.g. quantity, model, serial number, efficiency and payback calculations) Transaction data (e.g. invoice, measure cost, purchase date)				
Estimated Participation	Participation 2009 2010 2011 2012 Number of custom projects N/A N/A N/A N/A				
Estimated Budget	Annual Budgets 2009 2010 2011 2012				
	\$11,637 \$17,455 \$26,182 \$39,274				

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Savings	Largets
Caviligo	iaigoto

Energy Savings (Gross Annual kWh)						
2009 2010 2011 2012						
80,810 121,215 181,822 272,733						

Business Programs

Program Element	Commercial & In	ndustrial Educat	ional Services		
Objective	 To develop broad business awareness of the benefits of energy conservation and efficiency. To provide educational materials and services that motivate business customers to participate in the utility's energy optimization programs and to motivate energy management practices that can further reduce energy consumption. 				
Target Market	All commercial and ir	ndustrial customers.			
Program Duration	Start-up in July 2009 portfolio.	. Educational service	es will be an ongoing	element of the progr	ram
Program Description	educational of	In addition to the Business Solutions programs, the utility plans to implement educational outreach initiatives to build and expand the business customer's awareness of the benefits of efficient energy management.			
Eligible Measures	Not applicable for this	s program.			
Implementation Strategy	 The following types of initiatives will be considered for implementation: Develop, produce, and distribute energy efficiency tips, fact sheets and case studies that promote the benefits of energy efficiency. Work with the Chamber of Commerce, Mayor's office, municipal government agencies and other civic organizations to promote the energy optimization programs. Participate in Rebuild Michigan seminars in the area. 				
Marketing Strategy	See implementation strategy for a list of marketing activities.				
Milestones in 2009	February-March: Develop Energy Optimization Plan April: File Energy Optimization Plan with MPSC April-May: Select program implementation contractor July: Launch program				
EM&V Requirements	None at this time.	None at this time.			
Estimated Participation	To be determined.				
Estimated Budget					
	Annual Budgets				
	2009 2010 2011 2012				
	\$983 \$1,680 \$2,700 \$3,735				

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Energy Savings (Gross Annual kWh)			
2009	2010	2011	2012
6,595	10,436	15,426	20,460