Energy Optimization 2015 Annual Report for Michigan Electric Municipal Utilities

Introduction

Pursuant to 2008 Public Act 295 (PA 295), the municipal utilities are filing this annual energy optimization (EO) report with the Michigan Public Service Commission (MPSC). This EO annual report consists of two sections:

- Section 1 will address the requirements under PA 295 Section 97, Subsections 1-3 and Section 71, Subsection 3 (i).
- Section 2 will summarize the EO programs implemented in 2015.

SECTION 1: PA 295 SECTION 97 AND SECTION 71 REQUIREMENTS

Section 97 (1) Each provider shall submit to the commission an annual report that provides information relating to the actions taken by the provider to comply with the energy optimization standards.

Each municipal electric provider has continued to offer Energy Optimization programs to all customer classes. Attachment A provides a list of EO programs offered by each provider and the implementation contractors if applicable.

Section 97 (2) Annual reports under subsection (1) shall include the following: (a) The number of energy optimization credits that the provider generated during the reporting period. (b) Expenditures made in the past year and anticipated future expenditures to comply with this subpart. (c) Any other information that the commission determines necessary.

The number of energy optimization credits (in megawatt hours) generated for 2015 and the targets for 2016 are shown in Attachment B for the municipal utilities. The expenditures for 2015 for the Low Income, Residential, Commercial/Industrial programs and Administration/EM&V can be found in Attachment C. The EO Residential surcharge for each municipal in cost per kilowatt hour (or cost per meter) along with the responsible party for administration of programs is listed in Attachment D.

Section 97 (3) Concurrent with the submission of each report under subsection (1), a municipally-owned electric utility shall submit a summary of the report to its customers in their bills with a bill insert, to its governing body, at its office and on its website.

Each municipal electric utility will submit a copy of this annual report to its governing body; make it available at its office; on its website and a summary to its customers.

Section 71 (3)(i) Include a process for obtaining an independent expert evaluation of the actual energy optimization programs to verify the incremental energy savings from each energy optimization program for purposes of section 77.

The verification of the incremental gross energy savings for each municipal electric utility was performed where funding allowed.

SECTION 2: SUMMARY OF EO PROGRAMS IMPLEMENTED IN 2015

Residential Low Income Services

All the municipal electric utilities continued to offer low income programs to their customers in 2015.

Residential Solutions

All the municipal electric utilities offered programs to their residential customers, examples of the types of programs are listed below.

- Efficient Lighting Program
- Appliance Turn-In and Recycling Program
- Residential Education Services
- Residential HVAC and Appliances
- Audit and Weatherization
- Farm Services
- Residential Home Energy
- New Construction
- Residential Multi-Family In-Unit Efficiency
- Electric Water Heater Savings Kits
- Pilot/Emerging Technology Program

Business Solutions

All the municipal electric utilities offered programs to their commercial and industrial customers, examples of the types of programs are listed below.

- Commercial and Industrial Prescriptive Incentive Program
- Commercial and Industrial Custom Incentive Program
- Multi-Family Common Area Program
- Small Business Direct Install
- New Construction & Remodeling
- Business Education Services
- Pilot/Emerging Technology Program

		ENER	GY OPTIMIZATION PROGRAMS AND	CONTRA	ACTORS		
INDEPENDENTLY ADMINISTERING							
Utility	Sector		Program Type		Implementation Contractors		
		1	Residential Low Income	2009	Internally		
	Residential	2	Efficient Lighting Program	2009	Internally		
Village of	residential	3	Residential Education Services	2009	Internally		
Clinton		4	Residential Appliances & HVAC	2009	Internally		
	C & I	2	Business Services Education Services	2009 2009	Internally Internally		
	Out	Eval	Evaluation & Verification	2009	Local Police Officer		
				<u> </u>			
		1	Residential Low Income	2009	Internally		
		2	Efficient Lighting Program	2009	Internally JACO		
	Residential	3	Appliance Recycling Residential Education Services	2009 2009	Internally		
Coldwater		5	Residential Appliances & HVAC	2009	Internally		
Board of		7	Residential Pilot Programs	2009	Internally		
Public Utilities		1	Prescriptive Incentive	2009	Internally		
	0.01	2	Custom Incentive	2009	Internally		
	C & I	3	Education Services Pilot Programs	2009 2009	Internally Internally		
		Eval	Evaluation & Verification	2009	E3M Solutions		
		Lvai	Evaluation a volinication	2010	2000 Coldiono		
		1	Residential Low Income	2009	MEO & Internally		
	Residential	2	Efficient Lighting Program	2009	MEO/WECC		
		3	Appliance Recycling	2009	MEO/WECC		
		5	Residential Appliances & HVAC Residential Multi-Family In-Unit Efficiency	2010 2010	MEO/WECC MEO/WECC		
Lansing Board		6	Residential Education Services	2009	Internally		
of Water &		7	Residential Pilot Programs	2011	Internally		
Light	C & I	1	Prescriptive Incentive	2009	Franklin Energy		
		2	Custom Incentive	2009	Franklin Energy		
		3	Small Business Direct Install	2011	Franklin Energy		
		5	Education Services Pilot Programs	2009 2010	Internally Internally		
		Eval	Evaluation & Verification	2009	DNV-GL		
	Residential	1	Residential Low Income	2009	Internally		
		2	Residential Services	2009	Internally		
City of		3	Residential Education Services Prescriptive Incentive	2009 2009	Internally Internally		
Marshall	C & I	2	Custom Incentive	2009	Internally		
		3	Education Services	2009	Internally		
		Eval	Evaluation & Verification	2010	Internally		
-					1		
		1	Residential Low Income	2009	Internally Internally		
	Residential	3	Residential Services Residential Education Services	2009 2009	Internally		
		4	Residential Pilot	2010	Internally		
Sebewaing		5	Residential Appliances & HVAC	2010	Internally		
Senewaling	·	1	Prescriptive Incentive	2009	Internally		
	0.01	2	Custom Incentive	2009	Internally		
	C & I	<u>3</u>	Education Services Pilot Programs	2009 2010	Internally Internally		
		Eval	Evaluation & Verification	2010	DNV-GL		
			1=1				
		1	Residential Low Income	2009	Internally		
Union City	Residential	2	Efficient Lighting Program	2009	Internally		
Electric		3	Residential Education Services	2009	Internally		
Department	C&I	1 2	Prescriptive Incentive Program Education Services	2009 2009	Internally Internally		
	C&I	Eval	Evaluation & Verification	2009	DNV-GL		
		1	Residential Low Income	2009	Internally		
	Residential	2	Residential Services	2009	Internally		
City of		3	Residential Education Services	2009	Internally		
Wakefield	Col	1	Business Services	2009	Internally		
	C&I	2 Eval	Education Services	2009	Internally		
		Eval	Evaluation & Verification	2009	Internally		

			MECA COLLABORATIVE			
Utility Sector			Program Type		Implementation Contractors	
		Fire	Evolution 9 Varification	2040	latera all.	
		Eval 2	Evaluation & Verification Energy Star Products	2010 2009	Internally WECC	
		3	Appliance Recycling	2009	WECC	
	Residential	4	Efficient HVAC	2009	WECC	
Escanaba	residential	5	Audit & Weatherization / New Construction	2009	WECC	
Electric		6	Education Services	2009	WECC	
Department		7	Pilot Programs	2009	WECC	
Department		1	General Business Services	2009	WECC	
		2	Education Services	2009	WECC	
	C & I	3	Pilot Programs	2009	WECC	
		Eval	Evaluation & Verification	2009	DNV-GL	
		Lvai	Evaluation a vollication	2000	15111 02	
		1 1	Residential Low Income	2009	WECC	
		2	Energy Star Products	2009	WECC	
		3	Appliance Recycling	2009	WECC	
	Residential	4	Efficient HVAC	2009	WECC	
Marquette		5	Audit & Weatherization / New Construction	2009	WECC	
Board of Light		6	Education Services	2009	WECC	
& Power		7	Pilot Programs	2009	WECC	
Ī		1	General Business Services	2009	WECC	
	001	2	Education Services	2009	WECC	
	C&I	3	Pilot Programs	2009	WECC	
		Eval	Evaluation & Verification	2009	DNV-GL	
		1	Residential Low Income	2009	WECC	
		2	Energy Star Products	2009	WECC	
	Residential	3	Appliance Recycling	2009	WECC	
		4	Efficient HVAC	2009	WECC	
Newberry		5	Audit & Weatherization / New Construction	2009	WECC	
Water & Light		6	Farm Services	2012	WECC	
Board		7	Education Services	2009	WECC	
Doald		8	Pilot Programs	2009	WECC	
		1	General Business Services	2009	WECC	
	C&I	2	Education Services	2009	WECC	
	Odi	3	Pilot Programs	2009	WECC	
		Eval	Evaluation & Verification	2009	DNV-GL	
		1	Residential Low Income	2009	WECC	
		2	Energy Star Products	2009	WECC	
		3	Appliance Recycling	2009	WECC	
	Residential	4	Efficient HVAC	2009	WECC	
		5	Audit & Weatherization / New Construction	2009	WECC	
City of		6	Education Services	2009	WECC	
Stephenson		7	Pilot Programs	2009	WECC	
		1	General Business Services	2009	WECC	
	C & I	2	Education Services	2009	WECC	
		3	Pilot Programs	2009	WECC	
		Eval	Evaluation & Verification	2009	DNV-GL	

Bay City Electric Light & Power City of Charlevoix	Sector Residential C & I Residential	1 2 3 4 5 Eval 1 2 3 4 5 5 1 1 2 2 1 1 2 1 1 2 1 1 1 2 1 1 1 1	Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services Residential Education Services Residential Home Energy Programs Electric Water Heater Saving Kits Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install Education Services Pilot Programs Evaluation & Verification Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services Residential Education Services	Year Imp. 2009 2009 2009 2010 2010 2010 2010 201	Implementation Contractors Internally Franklin Energy Franklin Energy Internally Intern
Bay City Electric Light & Power City of Charlevoix	C & I	2 3 4 5 6 7 8 1 2 3 4 5 Eval	Efficient Lighting Program Appliance Recycling Residential Education Services Residential Appliances & HVAC Residential Home Energy Programs Electric Water Heater Saving Kits Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install Education Services Pilot Programs Evaluation & Verification Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services	2009 2009 2009 2010 2010 2010 2010 2010	Internally Internally Internally Internally Internally Internally Internally Internally Internally Franklin Energy Franklin Energy Internally Internally Internally Internally Internally Internally Internally Internally Internally DNV-GL Franklin Energy (2015) Franklin Energy
Bay City Electric Light & Power City of Charlevoix	C & I	3 4 5 6 7 8 1 2 3 4 5 Eval	Appliance Recycling Residential Education Services Residential Appliances & HVAC Residential Home Energy Programs Electric Water Heater Saving Kits Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install Education Services Pilot Programs Evaluation & Verification Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services	2009 2009 2010 2010 2010 2010 2010 2009 2009 2011 2009 2010 2009 2010 2009 2010 2009	Internally Internally Internally Internally Internally Internally Internally Internally Franklin Energy Franklin Energy Internally I
Bay City Electric Light & Power F City of Charlevoix	C & I	4 5 6 7 8 1 2 3 4 5 Eval	Residential Education Services Residential Appliances & HVAC Residential Home Energy Programs Electric Water Heater Saving Kits Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install Education Services Pilot Programs Evaluation & Verification Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services	2009 2010 2010 2010 2010 2010 2009 2009 2011 2009 2010 2009 2010 2009	Internally Internally Internally Internally Internally Internally Internally Franklin Energy Franklin Energy Internally Internally Internally Internally DNV-GL Franklin Energy (2015) Franklin Energy
Bay City Electric Light & Power F City of Charlevoix	C & I	5 6 7 8 1 2 3 4 5 Eval	Residential Appliances & HVAC Residential Home Energy Programs Electric Water Heater Saving Kits Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install Education Services Pilot Programs Evaluation & Verification Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services	2010 2010 2010 2010 2010 2009 2009 2011 2009 2010 2009 2009	Internally Internally Internally Internally Internally Franklin Energy Franklin Energy Internally Internally Internally Internally Internally DNV-GL Franklin Energy (2015) Franklin Energy
City of Charlevoix	Residential	6 7 8 1 2 3 4 5 Eval	Residential Home Energy Programs Electric Water Heater Saving Kits Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install Education Services Pilot Programs Evaluation & Verification Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services	2010 2010 2010 2010 2009 2009 2011 2009 2010 2009	Internally Internally Internally Internally Franklin Energy Franklin Energy Internally Internally Internally Internally DNV-GL Franklin Energy (2015) Franklin Energy
City of Charlevoix	Residential	7 8 1 2 3 4 5 Eval	Electric Water Heater Saving Kits Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install Education Services Pilot Programs Evaluation & Verification Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services	2010 2010 2009 2009 2011 2009 2010 2009 2009	Internally Internally Franklin Energy Franklin Energy Franklin Energy Internally Internally DNV-GL Franklin Energy (2015) Franklin Energy
& Power F	Residential	8 1 2 3 4 5 Eval	Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install Education Services Pilot Programs Evaluation & Verification Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services	2010 2009 2009 2011 2009 2010 2009 2009	Internally Franklin Energy Franklin Energy Franklin Energy Internally Internally DNV-GL Franklin Energy (2015) Franklin Energy
City of Charlevoix	Residential	1 2 3 4 5 Eval 2 2 3 4 5 5 1 2	Prescriptive Incentive Custom Incentive Small Business Direct Install Education Services Pilot Programs Evaluation & Verification Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services	2009 2009 2011 2009 2010 2009 2009	Franklin Energy Franklin Energy Franklin Energy Internally Internally DNV-GL Franklin Energy (2015) Franklin Energy
City of Charlevoix	Residential	2 3 4 5 Eval	Custom Incentive Small Business Direct Install Education Services Pilot Programs Evaluation & Verification Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services	2009 2011 2009 2010 2009 2009 2009	Franklin Energy Franklin Energy Internally Internally DNV-GL Franklin Energy (2015) Franklin Energy
City of Charlevoix	Residential	3 4 5 Eval 1 2 3 4 5 1 2	Small Business Direct Install Education Services Pilot Programs Evaluation & Verification Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services	2011 2009 2010 2009 2009	Franklin Energy Internally Internally DNV-GL Franklin Energy (2015) Franklin Energy
City of Charlevoix	Residential	4 5 Eval 1 2 3 4 5 1 2	Education Services Pilot Programs Evaluation & Verification Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services	2009 2010 2009 2009 2009	Internally Internally DNV-GL Franklin Energy (2015) Franklin Energy
City of Charlevoix		1 2 3 4 5 1 2	Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services	2009 2009 2009	DNV-GL Franklin Energy (2015) Franklin Energy
City of Charlevoix		1 2 3 4 5 1	Residential Low Income Efficient Lighting Program Appliance Recycling Residential Education Services	2009 2009	DNV-GL Franklin Energy (2015) Franklin Energy
City of Charlevoix		2 3 4 5 1 2	Efficient Lighting Program Appliance Recycling Residential Education Services	2009	Franklin Energy
City of Charlevoix		2 3 4 5 1 2	Efficient Lighting Program Appliance Recycling Residential Education Services	2009	Franklin Energy
City of Charlevoix		3 4 5 1 2	Appliance Recycling Residential Education Services		
City of Charlevoix		4 5 1 2	Residential Education Services	2009	
Charlevoix	C&I	5 1 2			Franklin Energy
Charlevoix	C & I	1 2	IRecidential Appliances & HV/AC	2009	Franklin Energy (2015)
	C & I	2		2010	Franklin Energy
F	C & I		Prescriptive Incentive	2009	Franklin Energy
F	Cal		Custom Incentive	2009	Franklin Energy
F		3	Small Business Direct Install Education Services	2011	Franklin Energy
F		4 Eval	Evaluation & Verification	2009	Franklin Energy (2015) DNV-GL
F		Evai	Evaluation & Venilication	2009	DNV-GL
F		1	Residential Low Income	2009	Franklin Energy (2015)
F	Residential	2	Efficient Lighting Program	2009	Franklin Energy
F		3	Appliance Recycling	2009	Franklin Energy
		4	Residential Education Services	2009	Franklin Energy (2015)
01 1		6	Residential Appliances & HVAC	2010	Franklin Energy
Chelsea		7	Residential Pilot Programs	2010	Franklin Energy (2015)
Electric	C & I	1	Prescriptive Incentive	2009	Franklin Energy
Department		2	Custom Incentive	2009	Franklin Energy
		3	Small Business Direct Install	2011	Franklin Energy
		4	Education Services	2009	Franklin Energy (2015)
		5	Pilot Programs	2010	Franklin Energy (2015)
		Eval	Evaluation & Verification	2009	DNV-GL
<u> </u>		1 4		1 2222	Tr
		1	Residential Low Income	2009	Internally
		2	Efficient Lighting	2009	Internally
F	Residential	3	Appliance Recycling Efficient Appliances & HVAC	2009 2009	Franklin Energy Franklin Energy
		5	Residential Pilot Programs	2009	Internally
roswell Light		6	Educational Services	2009	Internally
& Power		1	Prescriptive Incentive	2009	Franklin Energy
		2	Custom Incentive	2009	Franklin Energy
	C & I	3	Small Business Direct Install	2011	Franklin Energy
		4	Education Services	2009	Internally
		Eval	Evaluation & Verification	2009	DNV-GL
				•	
		1	Residential Low Income	2009	Franklin Energy (2015)
		2	Efficient Lighting Program	2009	Franklin Energy
		3	Appliance Recycling	2009	Franklin Energy
F	Residential	4	Residential Education Services	2009	Franklin Energy (2015)
		5	Residential Pilot Programs	2010	Franklin Energy (2015)
		6	Residential Appliances & HVAC	2010	Franklin Energy
ity of Eaton			Residential Home Energy Program	2012	Franklin Energy (2015)
ity of Eaton Rapids		7	IPrescriptive Incentive	2009	Franklin Energy
•		1	Prescriptive Incentive	2009	I Francisco Francisco
•		1 2	Custom Incentive		Franklin Energy
•	C & I	1 2 3	Custom Incentive Small Business Direct Install	2011	Franklin Energy
Rapids	C & I	1 2	Custom Incentive		

			MPPA Collaborative (continu	ed)	
Utility	Sector		Program Type	Year Imp.	Implementation Contractors
		1	Residential Low Income	2009	MCAAA
		2	Efficient Lighting Program	2009	Franklin Energy
		3	Appliance Recycling	2009	Franklin Energy
	Residential	4	Residential Education Services	2009	Internally
		5	Residential Home Energy Program	2012	Internally
Grand Haven		6	Residential Appliances & HVAC	2010	Franklin Energy
Board of Light		7	Residential Multi-Family In-Unit Efficiency	2010	Franklin Energy (2015)
& Power		8	Residential Pilot Programs Prescriptive Incentive	2010	Franklin Energy
		2	Custom Incentive	2009	Franklin Energy
	C & I	3 4	Small Business Direct Install Education Services	2011	Franklin Energy Internally
		5	Pilot Programs	2009	Internally
		Eval	Evaluation & Verification	2009	DNV-GL
		1	Residential Low Income	2010	Franklin Energy (2015)
		2	Efficient Lighting Program	2009	Franklin Energy
	Residential	3	Appliance Recycling	2009	Franklin Energy
City of Hami		4	Residential Education Services	2009	Franklin Energy (2015)
City of Hart		5	Residential Appliances & HVAC	2010	Franklin Energy
Hydro Electric		2	Prescriptive Incentive Custom Incentive	2009 2009	Franklin Energy Franklin Energy
	C & I	3	Small Business Direct Install	2009	Franklin Energy
	Cai	4	Education Services	2009	Internally
		Eval	Evaluation & Verification	2009	DNV-GL
L					
					Lakeshore Habitat for Humanity, Commun
Holland Board		1	Residential Low Income	2009	Action House, Salvation Army
	Residential	2	Efficient Lighting Program	2009	Internally
		3	Appliance Recycling	2009	JACO Environmental, PADNOS
		4	Residential Education Services	2009	Internally
		5	Residential Appliances & HVAC	2009	Internally & Franklin Energy
		6	Home Energy	2012	Internally
of Public		7	H20 Kits	2012	Internally
Works		8	Residential Multi-Family In-Unit Efficiency	2009	Internally
_		9	Residential Pilot Programs	2009	Internally, Ottawa Co. Com. Action Agency
		2	Prescriptive Incentive Custom Incentive	2009	Internally (2015) Internally (2015)
		3	Small Business Direct Install	2009	Internally (2015)
	C & I	4	Education Services	2009	Internally
		5	Pilot Programs	2009	Internally
		Eval	Evaluation & Verification	2009	DNV-GL
		1	Residential Low Income	2009	Internally
		2	Efficient Lighting Program	2009	Internally
	Residential	3	Appliance Recycling	2009	Franklin Energy
	Residential	4	Residential Education Services	2009	Internally
		5	Residential Appliances & HVAC	2010	Franklin Energy
Lowell Light		6	Residential Pilot Programs	2009	Internally
and Power		1	Prescriptive Incentive	2009	Franklin Energy
		2	Custom Incentive	2009	Franklin Energy
	C & I	3	Small Business Direct Install	2011	Franklin Energy
		4	Education Services	2009	Internally
		5 Eval	Pilot Programs	2009	Internally
		Eval 1	Evaluation & Verification Residential Low Income	2009	DNV-GL Franklin Energy (2015)
		1 2	Efficient Lighting Program	2010 2009	Franklin Energy (2015)
	Residential	3	Appliance Recycling	2009	Franklin Energy
	Residential	4	Residential Education Services	2009	Franklin Energy (2015)
Niles Utilities		5	Residential Appliances & HVAC	2009	Franklin Energy
<u> </u>		1	Prescriptive Incentive	2009	Franklin Energy
Department		2	Custom Incentive	2009	Franklin Energy
Department			,	_	
Department	C & I		Small Business Direct Install	2011	Franklin Energy
Department	C & I	3	Small Business Direct Install Education Services	2011	Franklin Energy Franklin Energy (2015)

	MPPA Collaborative (continued)						
Utility	Sector		Program Type	Year Imp.	Implementation Contractors		
Т		1 1	Residential Low Income	2009	Franklin Energy (2015)		
		2	Efficient Lighting Program	2009	Franklin Energy		
		3	Appliance Recycling	2009	Franklin Energy		
	Residential	4	Residential Multi-Family In-Unit Efficiency	2009	Franklin Energy		
Village of Bow		5	Residential Education Services	2009	Franklin Energy (2015)		
Village of Paw Paw		6	Residential Appliances & HVAC	2010	Franklin Energy		
raw		1	Prescriptive Incentive	2009	Franklin Energy		
		2	Custom Incentive	2009	Franklin Energy		
	C & I	3	Small Business Direct Install	2011	Franklin Energy		
		4	Education Services	2009	Franklin Energy (2015)		
		Eval	Evaluation & Verification	2009	DNV-GL		
I		1	Residential Low Income	2009	Franklin Energy (2015)		
		2	Efficient Lighting Program	2009	Franklin Energy		
	Residential	3	Appliance Recycling	2009	Franklin Energy		
	Residential	4	Residential Education Services	2009	Franklin Energy (2015)		
		5	Residential Appliances & HVAC	2010	Franklin Energy		
City of		6	Pilot Programs	2010	Franklin Energy (2015)		
Petoskey		1	Prescriptive Incentive	2009	Franklin Energy		
		2	Custom Incentive	2009	Franklin Energy		
	C & I	3	Small Business Direct Install	2011	Franklin Energy		
		5	Education Services	2009	Franklin Energy (2015) Franklin Energy (2015)		
		Eval	Pilot Programs Evaluation & Verification	2010	DNV-GL		
		Evai	Evaluation & Verification	2009	DNV-GL		
		1	Residential Low Income	2009	Franklin Energy (2015)		
	Residential	2	Efficient Lighting Program	2009	Franklin Energy		
		3	Appliance Recycling	2009	Franklin Energy		
		4	Residential Education Services	2009	Franklin Energy (2015)		
Portland Light		5	Residential Appliances & HVAC	2010	Franklin Energy		
and Power Board		1	Prescriptive Incentive	2009	Franklin Energy		
Board	C & I	2	Custom Incentive	2009	Franklin Energy		
		3	Small Business Direct Install	2011	Franklin Energy		
		4	Education Services	2009	Franklin Energy (2015)		
		Eval	Evaluation & Verification	2009	DNV-GL		
		T .	In		TE 111 E (001E)		
		1 2	Residential Low Income	2009 2009	Franklin Energy (2015)		
		3	Efficient Lighting Program	2009	Franklin Energy		
	Residential	4	Appliance Recycling Residential Education Services	2009	Franklin Energy Franklin Energy (2015)		
		5	Residential Appliances & HVAC	2009	Franklin Energy		
City of St.		6	Residential Pilot Programs	2010	Internally		
Louis		1	Prescriptive Incentive	2009	Franklin Energy		
		2	Custom Incentive	2009	Franklin Energy		
	C & I	3	Small Business Direct Install	2011	Franklin Energy		
	Cal	4	Education Services	2009	Franklin Energy (2015)		
		5	Pilot Programs	2010	Internally		
		Eval	Evaluation & Verification	2009	DNV-GL		
		1	Residential Low Income	2009	Franklin Energy (2015)		
	Desire of t	2	Efficient Lighting Program	2009	Franklin Energy		
	Residential	3	Residential Home Energy Program	2012	Internally		
		4	Residential Education Services	2009	Franklin Energy (2015)		
City of Sturgis		5 1	Residential Appliances & HVAC Prescriptive Incentive	2010 2009	Franklin Energy Franklin Energy		
City of Sturdis I		2	Custom Incentive	2009	Franklin Energy Franklin Energy		
,g				2003	promini Energy		
,				2011	Franklin Energy		
0.1, 0.10.19.0	C & I	3	Small Business Direct Install	2011 2010	Franklin Energy Internally		
	C & I			2011 2010 2009	Franklin Energy Internally Franklin Energy (2015)		

MPPA Collaborative (continued)							
Utility	Utility Sector		Program Type	Year Imp.	Implementation Contractors		
		1	Residential Low Income	2009	Internally		
		2	Efficient Lighting Program	2009	Internally		
	Residential	3	Appliance Recycling	2009	Internally		
	Residential	4	Residential Education Services	2009	Internally		
Travara City		5	Residential Appliances & HVAC	2009	Internally & Franklin Energy		
Traverse City		6	Residential Pilot Programs	2009	Internally & Franklin Energy (2015)		
Light and - Power		1	Prescriptive Incentive	2009	Franklin Energy		
Power		2	Custom Incentive	2009	Franklin Energy		
	C & I	3	Small Business Direct Install	2011	Franklin Energy		
	Cai	4	Education Services	2009	Internally		
		5	Pilot Programs	2009	Internally		
		Eval	Evaluation & Verification	2009	DNV-GL		
		1	Residential Low Income	2009	Internally		
	Residential	2	Efficient Lighting Program	2009	Internally		
		3	Appliance Recycling	2009	Franklin Energy		
		4	Residential Education Services	2009	Internally		
Wyandotte		5	Residential Pilot Programs	2009	Internally		
Municipal		6	Residential Appliances & HVAC	2010	Franklin Energy		
Services		1	Prescriptive Incentive	2009	Franklin Energy		
		2	Custom Incentive	2009	Franklin Energy		
	C & I	3	Pilot Programs	2009	Internally		
		4	Education Services	2009	Internally		
		Eval	Evaluation & Verification	2009	DNV-GL		
		1	Residential Low Income	2009	Franklin Energy (2015)		
		2	Efficient Lighting Program	2009	Franklin Energy		
	Desidential	3	Appliance Recycling	2010	Franklin Energy		
	Residential	4	Residential Education Services	2009	Internally		
Zeeland Board		5	Residential Appliances & HVAC	2010	Franklin Energy		
of Public		6	Residential Pilot Programs	2009	Internally		
Works		1	Prescriptive Incentive	2009	Franklin Energy		
		2	Custom Incentive	2009	Franklin Energy		
	C & I	3	Small Business Direct Install	2011	Franklin Energy		
	.	4	Education Services	2009	Internally		
		Eval	Evaluation & Verification	2010	DNV-GL		

MWh Data

Electric Municipals		1.00%		
Electric Municipals	2015 Target	2015 Actual	% Achieved	2016 Target
Bay City Electric Light & Power	3,058	3,937	129%	2,407
City of Charlevoix	405	602	149%	416
Chelsea Electric Department	874	889	102%	946
Village of Clinton	210	235	112%	191
Coldwater Board of Public Utilities	2,858	3,694	129%	3,385
Croswell Light & Power Department	336	327	97%	364
City of Eaton Rapids	239	194	81%	591
Escanaba Electric Department	1,419	1,499	106%	1,397
Grand Haven Board of Light and Power	2,160	2,993	139%	1,903
City of Hart Hydro Electric	276	339	123%	371
Holland Board of Public Works	10,173	12,865	126%	8,153
Lansing Board of Water & Light	20,521	30,150	147%	16,469
Lowell Light and Power	675	827	122%	534
Marquette Board of Light and Power	3,070	3,185	104%	3,016
City of Marshall Electric Department	1,039	859	83%	1,050
Newberry Water & Light Board	199	243	122%	175
Niles Utilities Department	1,223	1,281	104%	1,258
Village of Paw Paw	22	463	2102%	49
City of Petoskey	1,114	1,308	117%	924
Portland Light and Power Board	343	563	164%	142
Sebewaing Light & Water Dept.	223	714	321%	228
City of St. Louis	389	504	129%	261
City of Stephenson	59	92	156%	61
City of Sturgis	1,750	2,073	118%	1,955
Traverse City Light & Power	2,802	2,733	98%	3,387
Union City	149	176	118%	130
City of Wakefield	130	61	47%	130
Wyandotte Municipal Services	1,607	1,698	106%	1,800
Zeeland Board of Public Works	2,438	3,410	140%	2,191

Actual 2015 Expenditures

Electric Municipals	Total	Residential	Residential	C&I	Low Income	Admin &
Electric Municipals	2015	W/O Low Income	W/Low Income			Eval
Bay City Electric Light & Power	\$700,192	\$360,878	\$460,758	\$225,513	\$99,880	\$13,921
City of Charlevoix	\$94,145	\$36,561	\$42,777	\$46,818	\$6,216	\$4,550
Chelsea Electric Department	\$127,311	\$21,378	\$26,781	\$94,755	\$5,403	\$5,775
Village of Clinton	\$16,245	\$8,057	\$8,225	\$5,720	\$198	\$2,300
Coldwater Board of Public Utilities	\$265,514	\$28,694	\$36,964	\$161,480	\$8,270	\$67,070
Croswell Light & Power Department	\$38,081	\$544	\$604	\$33,938	\$60	\$3,539
City of Eaton Rapids	\$58,887	\$24,103	\$31,568	\$22,755	\$7,465	\$4,564
Escanaba Electric Department	\$265,300	\$72,912	\$82,053	\$178,382	\$9,141	\$4,865
Grand Haven Board of Light and Power	\$376,155	\$121,226	\$134,226	\$229,216	\$13,000	\$12,713
City of Hart Hydro Electric	\$51,966	\$12,624	\$16,938	\$31,213	\$4,314	\$3,815
Holland Board of Public Works	\$1,072,065	\$223,449	\$301,305	\$736,834	\$77,856	\$33,926
Lansing Board of Water & Light	\$3,878,490	\$951,283	\$1,199,892	\$2,209,876	\$248,609	\$468,722
Lowell Light and Power	\$74,326	\$8,795	\$9,772	\$59,381	\$977	\$5,173
Marquette Board of Light and Power	\$500,865	\$175,197	\$192,400	\$297,708	\$17,203	\$10,757
City of Marshall Electric Department	\$74,853	\$26,202	\$27,842	\$35,117	\$1,640	\$11,895
Newberry Water & Light Board	\$32,887	\$18,955	\$20,045	\$10,999	\$1,090	\$1,843
Niles Utilities Department	\$190,805	\$57,185	\$71,319	\$112,171	\$14,134	\$7,315
Village of Paw Paw	\$70,204	\$18,024	\$24,960	\$41,275	\$6,936	\$3,969
City of Petoskey	\$174,399	\$33,899	\$48,165	\$119,748	\$14,266	\$6,486
Portland Light and Power Board	\$65,519	\$31,429	\$34,602	\$27,261	\$3,173	\$3,656
Sebewaing Light & Water Dept.	\$61,591	\$9,994	\$12,324	\$43,867	\$2,330	\$5,400
City of St. Louis	\$60,509	\$16,313	\$21,830	\$34,604	\$5,517	\$4,075
City of Stephenson	\$8,738	\$3,501	\$3,788	\$4,374	\$287	\$576
City of Sturgis	\$332,581	\$81,531	\$98,311	\$222,999	\$16,780	\$11,271
Traverse City Light & Power	\$387,710	\$105,578	\$117,578	\$263,435	\$12,000	\$6,697
Union City	\$25,187	\$9,422	\$9,650	\$14,937	\$228	\$600
City of Wakefield	\$19,062	\$310	\$10,310	\$7,030	\$10,000	\$1,721
Wyandotte Municipal Services	\$346,202	\$155,224	\$172,224	\$163,797	\$17,000	\$10,181
Zeeland Board of Public Works	\$392,449	\$79,842	\$94,950	\$286,109	\$15,108	\$11,390

Energy Optimization Administration and Residential Surcharges for 2015						
Electric Municipals	Docket No.	Administration 2015	EO Residential Surcharge per \$/kWh or Per			
D 0'' 51 4 1 1 1 4 0 D	11.47000	MDDA	Meter			
Bay City Electric Light & Power	U-17382	MPPA	0.000825			
City of Charlevoix	U-17383	MPPA	\$0.00178			
Chelsea Electric Department	U-17384	MPPA	\$0.00100			
Village of Clinton	U-17385	Independently	\$0.00000			
Coldwater Board of Public Utilities	U-17386	Independently	\$0.00252			
Croswell Light & Power Department	U-17387	MPPA	\$0.00169			
City of Eaton Rapids	U-17392	MPPA	\$0.00080			
Escanaba Electric Department	U-17393	MECA	\$0.00216			
Grand Haven Board of Light and Power	U-17395	MPPA	\$0.00180			
City of Hart Hydro Electric	U-17397	MPPA	\$0.00130			
Holland Board of Public Works	U-17399	MPPA	\$0.00166			
Lansing Board of Water & Light	U-17401	Independently	\$0.00185			
Lowell Light and Power	U-17402	MPPA	\$0.00163			
Marquette Board of Light and Power	U-17403	MECA	\$0.00171			
City of Marshall Electric Department	U-17404	Independently	\$0.00000			
Newberry Water & Light Board	U-17406	MECA	\$0.00137			
Niles Utilities Department	U-17407	MPPA	\$0.00000			
Village of Paw Paw	U-17409	MPPA	\$0.00120			
City of Petoskey	U-17410	MPPA	\$0.00182			
Portland Light and Power Board	U-17411	MPPA	\$0.00132			
Sebewaing Light & Water Dept.	U-17412	Independently	\$0.00174			
City of St. Louis	U-17414	MPPA	\$0.00114			
City of Stephenson	U-17415	MECA	\$0.00128			
City of Sturgis	U-17416	MPPA	\$0.00191			
Traverse City Light & Power	U-17417	MPPA	\$0.00000			
Union City	U-17418	Independently	\$0.00090			
City of Wakefield	U-17419	Independently	\$0.00170			
Wyandotte Municipal Services	U-17420	MPPA	\$0.00197			
Zeeland Board of Public Works	U-17421	MPPA	\$1.00 Per Meter			