

Energy Optimization 2016 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 2016.

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 2016 and the targets for 2017 are shown in Attachment B for the municipal utilities. The expenditures for 2016 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 2016

Residential Low Income Services

All the municipal electric utilities continued to offer low income programs to their customers in 2016.

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*

ENERGY OPTIMIZATION PROGRAMS AND CONTRACTORS					
INDEPENDENTLY ADMINISTERING					
Utility	Sector		Program Type	Year Imp.	Implementation Contractors
Village of Clinton	Residential	1	Residential Low Income	2009	Internally
		2	Efficient Lighting Program	2009	Internally
		3	Residential Education Services	2009	Internally
		4	Residential Appliances & HVAC	2009	Internally
	C & I	1	Business Services	2009	Internally
		2	Education Services	2009	Internally
		Eval	Evaluation & Verification	2009	Local Police Officer
Coldwater Board of Public Utilities	Residential	1	Residential Low Income	2009	Internally
		2	Efficient Lighting Program	2009	Internally
		3	Appliance Recycling	2009	In transition
		4	Residential Education Services	2009	Internally
		5	Residential Appliances & HVAC	2009	Internally
		7	Residential Pilot Programs	2009	Internally
	C & I	1	Prescriptive Incentive	2009	Internally
		2	Custom Incentive	2009	Internally
		3	Education Services	2009	Internally
		4	Pilot Programs	2009	Internally
		Eval	Evaluation & Verification	2010	E3M Solutions
Lansing Board of Water & Light	Residential	1	Residential Low Income	2009	MEO & Internally
		2	Efficient Lighting Program	2009	MEO/WECC
		3	Appliance Recycling	2009	MEO/WECC
		4	Residential Appliances & HVAC	2010	MEO/WECC
		5	Residential Multi-Family In-Unit Efficiency	2010	MEO/WECC
		6	Residential Education Services	2009	Internally
	C & I	7	Residential Pilot Programs	2011	Internally
		1	Prescriptive Incentive	2009	Franklin Energy
		2	Custom Incentive	2009	Franklin Energy
		3	Small Business Direct Install	2011	Franklin Energy
		4	Education Services	2009	Internally
		5	Pilot Programs	2010	Internally
		Eval	Evaluation & Verification	2009	DNV-GL
City of Marshall	Residential	1	Residential Low Income	2009	Internally
		2	Residential Services	2009	Internally
		3	Residential Education Services	2009	Internally
	C & I	1	Prescriptive Incentive	2009	Internally
		2	Custom Incentive	2009	Internally
		3	Education Services	2009	Internally
		Eval	Evaluation & Verification	2010	Internally
Sebewaing	Residential	1	Residential Low Income	2009	Internally
		2	Residential Services	2009	Internally
		3	Residential Education Services	2009	Internally
		4	Residential Pilot	2010	Internally
		5	Residential Appliances & HVAC	2010	Internally
	C & I	1	Prescriptive Incentive	2009	Internally
		2	Custom Incentive	2009	Internally
		3	Education Services	2009	Internally
		4	Pilot Programs	2010	Internally
		Eval	Evaluation & Verification	2009	DNV-GL
Union City Electric Department	Residential	1	Residential Low Income	2009	Internally
		2	Efficient Lighting Program	2009	Internally
		3	Residential Education Services	2009	Internally
	C&I	1	Prescriptive Incentive Program	2009	Internally
		2	Education Services	2009	Internally
			Eval	Evaluation & Verification	2009
City of Wakefield	Residential	1	Residential Low Income	2009	Internally
		2	Residential Services	2009	Internally
		3	Residential Education Services	2009	Internally
	C&I	1	Business Services	2009	Internally
		2	Education Services	2009	Internally
			Eval	Evaluation & Verification	2009

MECA COLLABORATIVE					
Utility	Sector		Program Type	Year Imp.	Implementation Contractors
Daggett Electric Department	Residential	1	Income Qualified	2016	WECC
		2	High Efficiency Products	2016	WECC
		3	Education Services	2016	WECC
		4	Pilot Programs	2016	WECC
	C & I	5	General Business Services	2016	WECC
		6	Education Services	2016	WECC
		7	Pilot Programs	2016	WECC
		Eval	Evaluation & Verification	2016	DNV-GL
Escanaba Electric Department	Residential	1	Income Qualified	2009	WECC
		2	High Efficiency Products	2009	WECC
		3	Appliance Recycling	2009	WECC
		4	Efficient HVAC	2009	WECC
		5	Audit & Weatherization / New Construction	2009	WECC
		6	Education Services	2009	WECC
		7	Pilot Programs	2009	WECC
	C & I	1	General Business Services	2009	WECC
		2	Education Services	2009	WECC
		3	Pilot Programs	2009	WECC
Eval	Evaluation & Verification	2009	DNV-GL		
Marquette Board of Light & Power	Residential	1	Residential Low Income	2009	WECC
		2	High Efficiency Products	2009	WECC
		3	Appliance Recycling	2009	WECC
		4	Efficient HVAC	2009	WECC
		5	Audit & Weatherization / New Construction	2009	WECC
		6	Education Services	2009	WECC
		7	Pilot Programs	2009	WECC
	C&I	1	General Business Services	2009	WECC
		2	Education Services	2009	WECC
		3	Pilot Programs	2009	WECC
Eval	Evaluation & Verification	2009	DNV-GL		
Newberry Water & Light Board	Residential	1	Residential Low Income	2009	WECC
		2	High Efficiency Products	2009	WECC
		3	Appliance Recycling	2009	WECC
		4	Efficient HVAC	2009	WECC
		5	Audit & Weatherization / New Construction	2009	WECC
		6	Education Services	2009	WECC
		7	Pilot Programs	2009	WECC
	C&I	1	General Business Services	2009	WECC
		2	Education Services	2009	WECC
		3	Pilot Programs	2009	WECC
Eval	Evaluation & Verification	2009	DNV-GL		
South Haven Dept. of Public Works	Residential	1	Residential Low Income	2016	WECC
		2	High Efficiency Products	2016	WECC
		3	Appliance Recycling	2016	WECC
		4	Efficient HVAC	2016	WECC
		5	Audit & Weatherization / New Construction	2016	WECC
		6	Farm Services	2016	WECC
		7	Education Services	2016	WECC
		8	Pilot Programs	2016	WECC
	C & I	1	General Business Services	2016	WECC
		2	Education Services	2016	WECC
3		Pilot Programs	2016	WECC	
Eval	Evaluation & Verification	2016	DNV-GL		
City of Stephenson	Residential	1	Residential Low Income	2009	WECC
		2	High Efficiency Products	2009	WECC
		3	Appliance Recycling	2009	WECC
		4	Efficient HVAC	2009	WECC
		5	Audit & Weatherization / New Construction	2009	WECC
		6	Education Services	2009	WECC
		7	Pilot Programs	2009	WECC
	C & I	1	General Business Services	2009	WECC
		2	Education Services	2009	WECC
		3	Pilot Programs	2009	WECC
Eval	Evaluation & Verification	2009	DNV-GL		

MPPA Collaborative						
Utility	Sector		Program Type	Year Imp.	Implementation Contractors	
Bay City Electric Light & Power	Residential	1	Residential Low Income	2009	Internally	
		2	Efficient Lighting Program	2009	Internally	
		3	Appliance Recycling	2009	Internally	
		4	Residential Education Services	2009	Internally	
		5	Residential Appliances & HVAC	2010	Internally	
		6	Residential Home Energy Programs	2010	Internally	
		7	Electric Water Heater Saving Kits	2010	Internally	
		8	Residential Pilot Programs	2010	Internally	
	C & I	1	Prescriptive Incentive	2009	Franklin Energy	
		2	Custom Incentive	2009	Franklin Energy	
		3	Small Business Direct Install	2011	Franklin Energy	
4		Education Services	2009	Internally		
5		Pilot Programs	2010	Internally		
		Eval	Evaluation & Verification	2009	DNV-GL	
City of Charlevoix	Residential	1	Residential Low Income	2009	Franklin Energy (2015)	
		2	Efficient Lighting Program	2009	Franklin Energy	
		3	Appliance Recycling	2009	Franklin Energy	
		4	Residential Education Services	2009	Franklin Energy (2015)	
		5	Residential Appliances & HVAC	2010	Franklin Energy	
	C & I	1	Prescriptive Incentive	2009	Franklin Energy	
		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
	Chelsea Electric Department	Residential	1	Residential Low Income	2009	Franklin Energy (2015)
2			Efficient Lighting Program	2009	Franklin Energy	
3			Appliance Recycling	2009	Franklin Energy	
4			Residential Education Services	2009	Franklin Energy (2015)	
6			Residential Appliances & HVAC	2010	Franklin Energy	
7			Residential Pilot Programs	2010	Franklin Energy (2015)	
C & I		1	Prescriptive Incentive	2009	Franklin Energy	
		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	
Croswell Light & Power	Residential	1	Residential Low Income	2009	Internally	
		2	Efficient Lighting	2009	Internally	
		3	Appliance Recycling	2009	Franklin Energy	
		4	Efficient Appliances & HVAC	2009	Franklin Energy	
		5	Residential Pilot Programs	2009	Internally	
		6	Educational Services	2009	Internally	
	C & I	1	Prescriptive Incentive	2009	Franklin Energy	
		2	Custom Incentive	2009	Franklin Energy	
		3	Small Business Direct Install	2011	Franklin Energy	
		4	Education Services	2009	Internally	
			Eval	Evaluation & Verification	2009	DNV-GL
City of Eaton Rapids	Residential	1	Residential Low Income	2009	Franklin Energy (2015)	
		2	Efficient Lighting Program	2009	Franklin Energy	
		3	Appliance Recycling	2009	Franklin Energy	
		4	Residential Education Services	2009	Franklin Energy (2015)	
		5	Residential Pilot Programs	2010	Franklin Energy (2015)	
		6	Residential Appliances & HVAC	2010	Franklin Energy	
		7	Residential Home Energy Program	2012	Franklin Energy (2015)	
	C & I	1	Prescriptive Incentive	2009	Franklin Energy	
		2	Custom Incentive	2009	Franklin Energy	
		3	Small Business Direct Install	2011	Franklin Energy	
		4	Education Services	2009	Internally	
		5	Pilot Programs	2010	Internally	
		Eval	Evaluation & Verification	2009	DNV-GL	

MPPA Collaborative (continued)					
Utility	Sector		Program Type	Year Imp.	Implementation Contractors
Grand Haven Board of Light & Power	Residential	1	Residential Low Income	2009	MCAAA
		2	Efficient Lighting Program	2009	Franklin Energy
		3	Appliance Recycling	2009	Franklin Energy
		4	Residential Education Services	2009	Internally
		5	Residential Home Energy Program	2012	Internally
		6	Residential Appliances & HVAC	2010	Franklin Energy
		7	Residential Multi-Family In-Unit Efficiency	2010	Franklin Energy (2015)
		8	Residential Pilot Programs	2010	Internally
	C & I	1	Prescriptive Incentive	2009	Franklin Energy
		2	Custom Incentive	2009	Franklin Energy
		3	Small Business Direct Install	2011	Franklin Energy
4		Education Services	2009	Internally	
5		Pilot Programs	2010	Internally	
Eval	Evaluation & Verification	2009	DNV-GL		
City of Hart Hydro Electric	Residential	1	Residential Low Income	2010	Franklin Energy (2015)
		2	Efficient Lighting Program	2009	Franklin Energy
		3	Appliance Recycling	2009	Franklin Energy
		4	Residential Education Services	2009	Franklin Energy (2015)
		5	Residential Appliances & HVAC	2010	Franklin Energy
	C & I	1	Prescriptive Incentive	2009	Franklin Energy
		2	Custom Incentive	2009	Franklin Energy
		3	Small Business Direct Install	2011	Franklin Energy
		4	Education Services	2009	Internally
	Eval	Evaluation & Verification	2009	DNV-GL	
	Holland Board of Public Works	Residential	1	Residential Low Income	2009
2			Efficient Lighting Program	2009	Internally (2013)
3			Appliance Recycling	2009	PADNOS (2015)
4			Residential Multi-Family In-Unit Efficiency	2009	Internally
5			Residential Appliances & HVAC	2009	Internally & Franklin Energy
6			Home Energy	2012	Internally
7			Residential Education Services	2009	Internally, National Energy Foundation, West Michigan Environmental Action Council
C & I		1	Prescriptive Incentive	2009	Internally (2015)
		2	Custom Incentive	2009	Internally (2015)
		3	Small Business Direct Install	2011	Internally (2015)
		4	Education Services	2009	Internally
5	Pilot Programs	2009	Internally		
Eval	Evaluation & Verification	2009	DNV-GL		
Lowell Light and Power	Residential	1	Residential Low Income	2009	Internally
		2	Efficient Lighting Program	2009	Internally
		3	Appliance Recycling	2009	Franklin Energy
		4	Residential Education Services	2009	Internally
		5	Residential Appliances & HVAC	2010	Franklin Energy
		6	Residential Pilot Programs	2009	Internally
	C & I	1	Prescriptive Incentive	2009	Franklin Energy
		2	Custom Incentive	2009	Franklin Energy
		3	Small Business Direct Install	2011	Franklin Energy
		4	Education Services	2009	Internally
5	Pilot Programs	2009	Internally		
Eval	Evaluation & Verification	2009	DNV-GL		
Niles Utilities Department	Residential	1	Residential Low Income	2010	Franklin Energy (2015)
		2	Efficient Lighting Program	2009	Franklin Energy
		3	Appliance Recycling	2009	Franklin Energy
		4	Residential Education Services	2009	Franklin Energy (2015)
		5	Residential Appliances & HVAC	2009	Franklin Energy
	C & I	1	Prescriptive Incentive	2009	Franklin Energy
		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	

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

MPPA Collaborative (continued)					
Utility	Sector		Program Type	Year Imp.	Implementation Contractors
Traverse City Light and Power	Residential	1	Residential Low Income	2009	Franklin Energy (2016)
		2	Efficient Lighting Program	2009	Franklin Energy (2016)
		3	Appliance Recycling	2009	Franklin Energy (2016)
		4	Residential Education Services	2009	Franklin Energy (2016)
		5	Residential Appliances & HVAC	2009	Internally & Franklin Energy
		6	Residential Pilot Programs	2009	Internally & Franklin Energy (2015)
	C & I	1	Prescriptive Incentive	2009	Franklin Energy (2016)
		2	Custom Incentive	2009	Franklin Energy (2016)
		3	Small Business Direct Install	2011	Franklin Energy (2016)
		4	Education Services	2009	Franklin Energy (2016)
		5	Pilot Programs	2009	Franklin Energy (2016)
		Eval	Evaluation & Verification	2009	DNV-GL
Wyandotte Municipal Services	Residential	1	Residential Low Income	2009	Internally
		2	Efficient Lighting Program	2009	Internally
		3	Appliance Recycling	2009	Franklin Energy
		4	Residential Education Services	2009	Internally
		5	Residential Pilot Programs	2009	Internally
		6	Residential Appliances & HVAC	2010	Franklin Energy
	C & I	1	Prescriptive Incentive	2009	Franklin Energy
		2	Custom Incentive	2009	Franklin Energy
		3	Pilot Programs	2009	Internally
		4	Education Services	2009	Internally
			Eval	Evaluation & Verification	2009
Zeeland Board of Public Works	Residential	1	Residential Low Income	2009	Franklin Energy (2015)
		2	Efficient Lighting Program	2009	Franklin Energy
		3	Appliance Recycling	2010	Franklin Energy
		4	Residential Education Services	2009	Internally
		5	Residential Appliances & HVAC	2010	Franklin Energy
		6	Residential Pilot Programs	2009	Internally
	C & I	1	Prescriptive Incentive	2009	Franklin Energy
		2	Custom Incentive	2009	Franklin Energy
		3	Small Business Direct Install	2011	Franklin Energy
		4	Education Services	2009	Internally
			Eval	Evaluation & Verification	2010

MWh Data

Electric Municipals	1.00%			1.00%
	2016 Target	2016 Actual	% Achieved	2017 Target
Bay City Electric Light & Power	2,714	3,562	131%	2,437
City of Charlevoix	413	378	92%	649
Chelsea Electric Department	909	1,143	126%	727
Village of Clinton	191	192	100%	216
Coldwater Board of Public Utilities	2,858	3,208	112%	3,536
Croswell Light & Power Department	328	541	165%	142
Daggett Electric Department	11	16	141%	11
City of Eaton Rapids	282	186	66%	641
Escanaba Electric Department	1,393	1,800	129%	1,406
Grand Haven Board of Light and Power	2,735	4,013	147%	1,457
City of Hart Hydro Electric	368	418	114%	383
Holland Board of Public Works	8,153	13,235	162%	5,763
Lansing Board of Water & Light	16,469	26,167	159%	16,791
Lowell Light and Power	654	1,222	187%	540
Marquette Board of Light and Power	2,998	3,528	118%	3,015
City of Marshall Electric Department	1,050	1,053	100.3%	1,058
Newberry Water & Light Board	174	177	102%	174
Niles Utilities Department	1,251	1,212	97%	1,346
Village of Paw Paw	22	384	1745%	33
City of Petoskey	930	1,288	138%	772
Portland Light and Power Board	139	482	347%	19
Sebewaing Light & Water Dept.	228	819	359%	227
South Haven Dept. of Public Works	1,348	1,609	119%	1,349
City of St. Louis	163	105	129%	433
City of Stephenson	60	77	128%	60
City of Sturgis	1,946	3,047	157%	1,177
Traverse City Light & Power	3,381	5,053	149%	1,646
Union City	132	229	173%	120
City of Wakefield				
Wyandotte Municipal Services	1,607	1,036	64%	3,599
Zeeland Board of Public Works	2,187	2,529	116%	2,821

Actual 2016 Expenditures

Electric Municipals	Total 2016	Residential W/O Low Income	Residential W/Low Income	C&I	Low Income	Admin & Eval
Bay City Electric Light & Power	\$483,679	\$171,262	\$223,126	\$234,173	\$51,864	\$26,380
City of Charlevoix	\$70,024	\$20,434	\$26,650	\$38,864	\$6,216	\$4,510
Chelsea Electric Department	\$137,078	\$25,211	\$29,066	\$102,280	\$3,855	\$5,732
Village of Clinton	\$20,269	\$7,825	\$8,017	\$9,952	\$192	\$2,300
Coldwater Board of Public Utilities	\$306,179	\$20,249	\$22,274	\$185,081	\$2,025	\$98,824
Croswell Light & Power Department	\$43,031	\$841	\$934	\$38,667	\$93	\$3,430
Daggett Electric Department	\$2,356	\$854	\$1,148	\$822	\$294	\$386
City of Eaton Rapids	\$81,125	\$21,556	\$26,792	\$49,813	\$5,236	\$4,520
Escanaba Electric Department	\$200,334	\$56,998	\$63,656	\$130,266	\$6,658	\$6,412
Grand Haven Board of Light and Power	\$460,912	\$145,962	\$155,748	\$285,642	\$9,786	\$19,522
City of Hart Hydro Electric	\$55,703	\$7,762	\$10,840	\$41,086	\$3,078	\$3,777
Holland Board of Public Works	\$972,127	\$210,606	\$245,818	\$655,545	\$35,212	\$70,764
Lansing Board of Water & Light	\$4,292,040	\$1,154,983	\$1,373,923	\$2,312,594	\$218,940	\$605,523
Lowell Light and Power	\$108,249	\$16,304	\$17,288	\$83,399	\$984	\$7,562
Marquette Board of Light and Power	\$436,013	\$133,303	\$142,169	\$279,982	\$8,866	\$13,862
City of Marshall Electric Department	\$57,393	\$14,906	\$15,353	\$30,145	\$448	\$11,895
Newberry Water & Light Board	\$26,285	\$7,635	\$8,108	\$15,134	\$473	\$3,043
Niles Utilities Department	\$185,144	\$83,672	\$93,757	\$84,131	\$10,085	\$7,256
Village of Paw Paw	\$89,558	\$18,147	\$23,096	\$62,531	\$4,949	\$3,931
City of Petoskey	\$160,906	\$33,310	\$43,489	\$110,987	\$10,179	\$6,430
Portland Light and Power Board	\$74,887	\$35,073	\$37,337	\$33,931	\$2,264	\$3,619
Sebewaing Light & Water Dept.	\$60,352	\$9,994	\$13,033	\$41,919	\$4,082	\$5,400
South Haven Dept. of Public Works	\$194,657	\$61,651	\$64,509	\$121,016	\$2,858	\$9,132
City of St. Louis	\$64,676	\$17,411	\$21,347	\$39,292	\$3,936	\$4,037
City of Stephenson	\$12,503	\$6,401	\$6,928	\$4,379	\$527	\$1,196
City of Sturgis	\$309,302	\$88,134	\$100,107	\$198,022	\$11,973	\$11,173
Traverse City Light & Power	\$500,689	\$80,601	\$83,917	\$409,363	\$3,316	\$7,409
Union City	\$17,622	\$5,063	\$5,219	\$8,978	\$157	\$3,425
City of Wakefield						
Wyandotte Municipal Services	\$269,562	\$75,517	\$88,532	\$170,273	\$13,015	\$10,757
Zeeland Board of Public Works	\$353,324	\$56,748	\$67,528	\$274,464	\$10,780	\$11,332

Energy Optimization Administration and Residential Surcharges for 2016			
Electric Municipals	Docket No.	Administration 2016	EO Residential Surcharge per \$/kWh or Per 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
Daggett Electric Department	U-17389	MECA	\$0.01280
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
Southaven Dept. of Public Works	U-17413	MECA	\$0.00161
City of St. Louis	U-17414	MPPA	\$0.00114
City of Stephenson	U-17415	MECA	\$0.00224
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