

# Energy Waste Reduction 2017 Annual Report for Michigan Electric Municipal Utilities

## Introduction

Pursuant to 2016 Public Act 342 (PA 342), the municipal utilities are filing this annual energy waste reduction (EWR) report with the Michigan Public Service Commission (MPSC). This EWR annual report consists of two sections:

- Section 1 will address the requirements under PA 342 Section 97, Subsections 1-3 and Section 71, Subsection 4 (i).
- Section 2 will summarize the EWR programs implemented in 2017.

## SECTION 1: PA 342 SECTION 97 AND SECTION 71 REQUIREMENTS

***Section 97 (1) By a time determined by the commission, 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 waste reduction standards.***

Each municipal electric provider has continued to offer Energy Waste Reduction programs to all customer classes. Attachment A provides a list of EWR 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 amount of energy waste reduction achieved 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 waste reduction credits (in megawatt hours) generated for 2017 and the targets for 2018 are shown in Attachment B for the municipal utilities. The expenditures for 2017 for the Low Income, Residential, Commercial/Industrial programs and Administration/EM&V can be found in Attachment C. The EWR 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 with a bill insert and to its governing body. A municipally owned electric utility shall make a copy of the report available at its office and shall post a copy of the report on its website.***

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

**Section 71 (4)(i) Include a process for obtaining an independent expert evaluation of the actual energy waste reduction programs to verify the incremental energy savings from each energy waste reduction 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 EWR PROGRAMS IMPLEMENTED IN 2017**

### **Residential Low Income Services**

All the municipal electric utilities continued to offer low income programs to their customers in 2017.

### **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 Programs*

### **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 Programs*

## ENERGY WASTE REDUCTION 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
	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
		7	Residential Pilot Programs	2011	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 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	Local Police Officer
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	Internally

## 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	1	General Business Services	2016	WECC
		2	Education Services	2016	WECC
		3	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

<b>MPPA Collaborative</b>					
<b>Utility</b>	<b>Sector</b>		<b>Program Type</b>	<b>Year Imp.</b>	<b>Implementation Contractors</b>
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	Lakeshore Habitat for Humanity, Community Action House, Salvation Army, Ottawa County CAA
		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
		8	Residential Pilot Programs	2009	Internally, Ottawa County CAA
	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		

MPPA Collaborative (continued)

Utility	Sector		Program Type	Year Imp.	Implementation Contractors
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		
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		

## MPPA Collaborative (continued)

Utility	Sector		Program Type	Year Imp.	Implementation Contractors
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	
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	DNV-GL	
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	DNV-GL	



**ATTACHMENT B**

MWh Data

Electric Municipals	1.00%			1.00%
	2017 Target	2017 Actual	% Achieved	2018 Target
Bay City Electric Light & Power	1,711	5,454	319%	2,191
City of Charlevoix	644	792	123%	454
Chelsea Electric Department	764	1,133	148%	649
Village of Clinton	216	222	103%	210
Coldwater Board of Public Utilities	3,536	2,411	68%	3,571
Croswell Light & Power Department	178	304	171%	319
Daggett Electric Department	11	12	102%	11
City of Eaton Rapids	642	595	93%	667
Escanaba Electric Department	1,410	2,138	152%	1,414
Grand Haven Board of Light & Power	1,458	4,671	320%	2,022
City of Hart Hydro Electric	386	555	144%	324
Holland Board of Public Works	5,473	18,731	342%	7,300
Lansing Board of Water & Light	22,058	27,414	124%	19,488
Lowell Light and Power	540	1,317	244%	541
Marquette Board of Light and Power	3,020	3,025	100%	3,025
City of Marshall Electric Department	1,058	1,099	103.9%	1,019
Newberry Water & Light Board	174	182	105%	172
Niles Utilities Department	1,352	1,510	112%	1,130
Village of Paw Paw	155	497	321%	275
City of Petoskey	772	3,051	395%	685
Portland Light and Power Board	242	600	248%	241
Sebewaing Light & Water Dept.	227	312	137%	269
South Haven Dept. of Public Works	1,352	1,774	131%	1,380
City of St. Louis	201	530	264%	245
City of Stephenson	60	66	110%	61
City of Sturgis	1,186	3,384	285%	1,569
Traverse City Light & Power	1,557	2,926	188%	2,342
Union City	120	120	100%	141
City of Wakefield	260	395	152%	87
Wyandotte Municipal Services	1,892	1,226	65%	1,552
Zeeland Board of Public Works	2,925	2,868	98%	3,903

**ATTACHMENT C**

Actual 2017 Expenditures

<b>Electric Municipals</b>	Total 2017	Residential w/o Low Income	Residential With Low Income	Commercial & Industrial	Low Income	Admin & Eval
Bay City Electric Light & Power	\$520,974	\$152,317	\$235,527	\$248,730	\$83,210	\$36,717
City of Charlevoix	\$90,341	\$28,789	\$33,224	\$52,742	\$4,435	\$4,375
Chelsea Electric Department	\$124,792	\$25,205	\$29,060	\$90,205	\$3,855	\$5,527
Village of Clinton	\$19,579	\$7,299	\$7,499	\$9,780	\$200	\$2,300
Coldwater Board of Public Utilities	\$369,210	\$33,307	\$36,347	\$208,595	\$3,040	\$124,268
Croswell Light & Power Department	\$36,106	\$656	\$729	\$31,983	\$73	\$3,394
Daggett Electric Department	\$3,995	\$2,041	\$2,561	\$1,029	\$520	\$405
City of Eaton Rapids	\$77,661	\$26,612	\$31,938	\$41,377	\$5,326	\$4,346
Escanaba Electric Department	\$315,781	\$80,614	\$85,240	\$221,604	\$4,626	\$8,937
Grand Haven Board of Light & Power	\$415,429	\$127,030	\$132,030	\$259,813	\$5,000	\$23,586
City of Hart Hydro Electric	\$65,741	\$10,447	\$13,525	\$48,550	\$3,078	\$3,666
Holland Board of Public Works	\$1,004,204	\$210,606	\$245,818	\$655,545	\$35,212	\$102,841
Lansing Board of Water & Light	\$4,193,257	\$1,265,408	\$1,467,810	\$2,245,441	\$202,402	\$480,006
Lowell Light and Power	\$101,770	\$21,536	\$23,584	\$70,412	\$2,048	\$7,774
Marquette Board of Light and Power	\$614,189	\$250,913	\$272,811	\$320,942	\$21,898	\$20,436
City of Marshall Electric Department	\$66,184	\$20,320	\$21,496	\$29,395	\$1,176	\$15,293
Newberry Water & Light Board	\$33,994	\$12,080	\$17,380	\$12,709	\$5,300	\$3,906
Niles Utilities Department	\$170,896	\$52,916	\$63,001	\$100,811	\$10,085	\$7,084
Village of Paw Paw	\$68,308	\$18,021	\$22,970	\$41,513	\$4,949	\$3,825
City of Petoskey	\$173,549	\$34,657	\$44,836	\$122,414	\$10,179	\$6,299
Portland Light and Power Board	\$64,351	\$30,065	\$32,329	\$28,536	\$2,264	\$3,486
Sebewaing Light & Water Dept.	\$50,026	\$7,758	\$10,510	\$34,116	\$2,752	\$5,400
South Haven Dept. of Public Works	\$234,953	\$93,323	\$100,780	\$126,684	\$7,457	\$7,489
City of St. Louis	\$61,352	\$16,798	\$20,734	\$36,692	\$3,936	\$3,926
City of Stephenson	\$10,758	\$2,030	\$2,198	\$7,055	\$168	\$1,505
City of Sturgis	\$348,786	\$111,652	\$123,625	\$214,156	\$11,973	\$11,005
Traverse City Light & Power	\$409,902	\$75,336	\$78,652	\$308,365	\$3,316	\$22,885
Union City	\$16,542	\$2,983	\$3,051	\$10,066	\$68	\$3,425
City of Wakefield	\$24,248	\$14,508	\$16,120	\$5,704	\$1,612	\$2,425
Wyandotte Municipal Services	\$242,950	\$41,120	\$42,490	\$161,988	\$1,370	\$38,472
Zeeland Board of Public Works	\$384,528	\$66,558	\$77,338	\$296,161	\$10,780	\$11,029

**ATTACHMENT D**

<b>Energy Waste Reduction Administration and Residential Surcharges for 2017</b>			
<b>Electric Municipals</b>	<b>Docket No.</b>	<b>Administration 2017</b>	<b>EWR Residential Surcharge per \$/kWh or Per Meter</b>
Bay City Electric Light & Power	U-18282	MPPA	0.000825
City of Charlevoix	U-18283	MPPA	\$0.00178
Chelsea Department of Electric and Water	U-18284	MPPA	\$0.00100
Village of Clinton	U-18285	Independently	\$0.00000
Coldwater Board of Public Utilities	U-18286	Independently	\$0.00252
Croswell Municipal Light & Power Department	U-18287	MPPA	\$0.00169
Daggett Electric Department	U-18289	MECA	\$0.01280
City of Eaton Rapids	U-18292	MPPA	\$0.00180
Escanaba Electric Department	U-18293	MECA	\$0.00216
Grand Haven Board of Light and Power	U-18295	MPPA	\$0.00000
City of Hart Hydro Electric	U-18297	MPPA	\$0.00130
Holland Board of Public Works	U-18299	MPPA	\$0.00175
Lansing Board of Water & Light	U-18301	Independently	\$0.00185
Lowell Light and Power	U-18302	MPPA	\$0.00000
Marquette Board of Light and Power	U-18303	MECA	\$0.00171
City of Marshall Electric Department	U-18304	Independently	\$0.00000
Newberry Water & Light Board	U-18306	MECA	\$0.00137
Niles Utilities Department	U-18307	MPPA	\$0.00000
Village of Paw Paw	U-18309	MPPA	\$0.00120
City of Petoskey	U-18310	MPPA	\$0.00182
Portland Light and Power Board	U-18311	MPPA	\$0.00132
Sebewaing Light & Water Dept.	U-18312	Independently	\$0.00174
South Haven Dept. of Public Works	U-18313	MECA	\$0.00161
City of St. Louis	U-18341	MPPA	\$0.00114
City of Stephenson	U-18315	MECA	\$0.00224
City of Sturgis	U-18316	MPPA	\$0.00191
Traverse City Light & Power	U-18317	MPPA	\$0.00000
Union City	U-18318	Independently	\$0.00090
City of Wakefield	U-18319	Independently	\$0.00170
Wyandotte Municipal Services	U-18320	MPPA	\$0.00197
Zeeland Board of Public Works	U-18321	MPPA	\$1.00 Per Meter