# Energy Waste Reduction 2018 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 2018.

#### **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 2018 and the targets for 2019 are shown in Attachment B for the municipal utilities. The expenditures for 2018 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 2018**

#### Residential Low Income Services

All the municipal electric utilities continued to offer low income programs to their customers in 2018.

#### **Residential Solutions**

All the municipal electric utilities continued to offer 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 continued to offer 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

	El	NERGY	WASTE REDUCTION PROGRAMS A	ND CON	ITRACTORS			
INDEPENDENTLY ADMINISTERING								
Utility	Sector		Program Type	Year Imp.	Implementation Contractors			
		1	Residential Low Income	2009	Internally			
	Residential	2	Efficient Lighting Program	2009	Internally			
Village of		3	Residential Education Services	2009	Internally			
Clinton		1	Residential Appliances & HVAC Business Services	2009 2009	Internally Internally			
	C & I	2	Education Services	2009	Internally			
		Eval	Evaluation & Verification	2009	Local Police Officer			
		ı		T				
		1	Residential Low Income	2009	Internally			
		2	Efficient Lighting Program	2009 2009	Internally In transition			
	Residential	<u>3</u>	Appliance Recycling Residential Education Services	2009	Intransition			
Coldwater		5	Residential Appliances & HVAC	2009	Internally			
Board of		7	Residential Pilot Programs	2009	Internally			
Public Utilities		1	Prescriptive Incentive	2009	Internally			
		2	Custom Incentive	2009	Internally			
	C & I	3	Education Services	2009	Internally			
		4	Pilot Programs	2009	Internally			
		Eval	Evaluation & Verification	2010	E3M Solutions			
ı		1 4	Decidential Levy Income	2000	IMEO 9 Internelli			
		2	Residential Low Income Efficient Lighting Program	2009	MEO & Internally MEO/Franklin (2018)			
		3	Appliance Recycling	2009	MEO (2011)			
	Residential	4	Residential Appliances & HVAC	2010	MEO/Franklin (2018)			
	Residential	5	Residential Multi-Family In-Unit Efficiency	2010	MEO/Franklin (2018)			
ansing Board		6	Residential Education Services	2009	National Energy Foundation/Apogee/Interna			
of Water &		7	Residential Pilot Programs	2011	Internally			
Light		1	Prescriptive Incentive	2009	Franklin Energy			
J		2	Custom Incentive	2009	Franklin Energy			
		3	Small Business Direct Install	2011	Franklin Energy			
	C & I	4	Education Services	2009	Questline/Internally			
		5	Pilot Programs	2010	Internally			
		Eval	Evaluation & Verification	2009	DNV-GL			
T		1 .			Te			
	Residential	1	Residential Low Income	2009	Internally			
		3	Residential Services Residential Education Services	2009 2009	Internally Internally			
City of		1	Prescriptive Incentive	2009	Internally			
Marshall		2	Custom Incentive	2009	Internally			
	C & I	3	Education Services	2009	Internally			
		Eval	Evaluation & Verification	2010	Internally			
					· · ·			
		1	Residential Low Income	2009	Internally			
		2	Residential Services	2009				
	Residential	3	Residential Education Services	2009	Internally			
		4	Residential Pilot	2010	Internally			
Sebewaing		5	Residential Appliances & HVAC	2010	Internally			
3		1	Prescriptive Incentive	2009	Internally			
	C 0 1	2	Custom Incentive	2009	Internally			
	C & I	3	Education Services	2009	Internally			
		4 Eval	Pilot Programs  Evaluation & Verification	2010	Internally DNV-GL			
		_ ∟vai	L valuation & verification	2009	DIAN-OF			
I		1	Residential Low Income	2009	Internally			
Union City	Residential	2	Efficient Lighting Program	2009	Internally			
Union City		3	Residential Education Services	2009	Internally			
Electric - Department		1	Prescriptive Incentive Program	2009	Internally			
Department	C&I	2	Education Services	2009	Internally			
		Eval	Evaluation & Verification	2009	Local Police Officer			
ı		1 4	Decidential Levy Income	2000	Internally			
	Desidential	1	Residential Low Income	2009	Internally			
0.11	Residential	2	Residential Services	2009	Internally			
City of		3	Residential Education Services	2009	Internally			
Wakefield	001	1	Business Services	2009	Internally			
	C&I	2	Education Services	2009	Internally			
		Eval	Evaluation & Verification	2009	Internally			

			MECA COLLABORATIVE		
Utility	Utility Sector		Program Type	Year Imp.	Implementation Contractors
		1	Income Qualified	2016	WECC
		2	High Efficiency Products	2016	WECC
<b>.</b>	Residential	3	Education Services	2016	WECC
Daggett		4	Pilot Programs	2016	WECC
Electric		1	General Business Services	2016	WECC
Department	C & I	2	Education Services	2016	WECC
		3	Pilot Programs Evaluation & Verification	2016	WECC
		Eval	Evaluation & Verification	2016	DNV-GL
		1	Income Qualified	2009	WECC
		2	High Efficiency Products	2009	WECC
		3	Appliance Recycling	2009	WECC
	Residential	4	Efficient HVAC	2009	WECC
Escanaba		5	Audit & Weatherization / New Construction	2009	WECC
Electric		6	Education Services	2009	WECC
Department		7	Pilot Programs	2009	WECC
· ·		1	General Business Services	2009	WECC
	0.01	2	Education Services	2009	WECC
	C & I	3	Pilot Programs	2009	WECC
		Eval	Evaluation & Verification	2009	DNV-GL
	-				
Т		1	Residential Low Income	2009	WECC
		2	High Efficiency 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
	C&I	1	General Business Services	2009	WECC
		2	Education Services	2009	WECC
		3	Pilot Programs	2009	WECC
L		Eval	Evaluation & Verification	2009	DNV-GL
T		1	Residential Low Income	2009	WECC
		2	High Efficiency Products	2009	WECC
		3	Appliance Recycling	2009	WECC
	Residential	4	Efficient HVAC	2009	WECC
Newberry		5	Audit & Weatherization / New Construction	2009	WECC
Water & Light	Cel	6	Education Services	2009	WECC
Board		7	Pilot Programs	2009	WECC
		1	General Business Services	2009	WECC
		2	Education Services	2009	WECC
	C&I	3	Pilot Programs	2009	WECC
		Eval	Evaluation & Verification	2009	DNV-GL
		T .			
		1	Residential Low Income	2016	WECC
		2	High Efficiency Products	2016	WECC
		3	Appliance Recycling	2016	WECC
	Residential	5	Efficient HVAC	2016	WECC
South Haven			Audit & Weatherization / New Construction Farm Services	2016	WECC
Dept. of		7	Education Services	2016 2016	WECC
Public Works		8	Pilot Programs	2016	WECC
<u></u>		1	General Business Services	2016	WECC
		2	Education Services	2016	WECC
	C & I	3	Pilot Programs	2016	WECC
		Eval	Evaluation & Verification	2016	DNV-GL
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		1	Residential Low Income	2009	WECC
		2	High Efficiency Products	2009	WECC
	Residential	3	Appliance Recycling	2009	WECC
		4	Efficient HVAC	2009	WECC
City of		5	Audit & Weatherization / New Construction	2009	WECC
Stephenson		6	Education Services	2009	WECC
Stophichson		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

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

	MPPA Collaborative (continued)						
Utility	Sector		Program Type		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		
	Residential	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	2010	Internally		
& Power		1	Prescriptive Incentive	2009	Franklin Energy		
		2	Custom Incentive	2009	Franklin Energy		
	0.01	3	Small Business Direct Install	2011	Franklin Energy		
	C & I	4	Education Services	2009	Internally		
		5	Pilot Programs	2010	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		
		4	Residential Education Services	2009	Franklin Energy (2015)		
City of Hart		5	Residential Appliances & HVAC	2010	Franklin Energy		
Hydro Electric		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		
					Lakeshore Habitat for Humanity,		
		1	Residential Low Income	2009	Community Action House, Salvation Army Ottawa County CAA		
		2	Efficient Lighting Program	2009	Internally (2013)		
		3	Appliance Recycling	2009	PADNOS (2015)		
	Residential	4	Residential Multi-Family In-Unit Efficiency	2009	Internally		
		5	Residential Appliances & HVAC	2009	Internally & Franklin Energy		
Holland Board		6	Home Energy	2012	Internally		
of Public Works		7	Residential Education Services	2009	Internally, National Energy Foundation, West Michigan Environmental Action Council		
L		8	Residential Pilot Programs	2009	Internally, Ottawa County CAA		
		1	Prescriptive Incentive	2009	Internally (2015)		
		2	Custom Incentive	2009	Internally (2015)		
	C & I	3	Small Business Direct Install	2011	Internally (2015)		
	σαι	4	Education Services	2009	Internally		
		5	Pilot Programs	2009	Internally		
		Eval	Evaluation & Verification	2009	DNV-GL		
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		1	Residential Low Income	2009	Internally		
		2	Efficient Lighting Program	2009	Internally  Eropklin Energy		
	Residential	3	Appliance Recycling	2009	Franklin Energy		
		4	Residential Education Services	2009	Internally		
Lowell Light		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	Pilot Programs	2009	Internally		
		Eval	Evaluation & Verification	2009	DNV-GL		

Village of Paw				MPPA Collaborative (continu	ıed)	
Residential     2   Efficient Lighting Program   2009   Franklin Energy   2009   Energy   2015   2009   Energy   2009   Energy   2015   2009   Energy   2015   2009   Energy   2009   Energy   2015	Utility	Sector		Program Type		Implementation Contractors
Residential   3   Appliance Recycling   2009   Franklin Energy   2015   5   Residential Education Sanches   2009   Franklin Energy   2015   5   Residential Appliances & HVAC   2009   Franklin Energy   2   2   2   2   2   2   2   2   2			1	Residential Low Income	2010	Franklin Energy (2015)
A Residential Education Services   2009   Franklin Energy (2015)			2	Efficient Lighting Program	2009	
		Residential	3	Appliance Recycling	2009	Franklin Energy
1			4		2009	
C. & I   2   Custom Incentive   2009   Franklin Energy   Exclusion Services   2009   Franklin Energy   Franklin Energy   Exclusion Services   2009   Franklin Energy   Franklin Energy   Exclusion Exclusion   Exclusion Exclusion Exclusion   2009   Franklin Energy   Exclusion Exclusion   Exclusion Exclusion   2009   Franklin Energy   Exclusion Exclusion   2009   Franklin Energy   2009   2009   Franklin Energy   2009   Franklin Energy   2009   Franklin Energy   2009   2009   Frankli	-					57
C & I   3   Small Business Direct Install   2011   Franklin Energy (2015)	Department				1	
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Eval		C & I			1	
Residential Low Income   2009   Franklin Energy (2015)						
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Residential					2009	
A   Residential Multi-Family In-Unit Efficiency   2009   Franklin Energy			2		2009	<u> </u>
A   Residential Multi-Family In-Unit Efficiency   2009   Franklin Energy		Residential				
Paw				•		
Paw	Village of Paw				1	
C & I   2   Custom Incentive   2009   Franklin Energy   2015   Franklin Energy   2015   Education Services   2009   Franklin Energy   2015   Evaluation & Verification   2009   DNV-GL	•					Ü,
C & I   3   Small Business Direct Install   2011   Franklin Energy   4   Education Services   2009   Franklin Energy (2015)						
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Residential			<u> </u>			
Residential			L vai	Evaluation & Verification	2003	DIVV-GE
Residential			1	Residential Low Income	2009	Franklin Energy (2015)
A		Residential	2	Efficient Lighting Program	2009	Franklin Energy
A   Residential Education Services   2009   Franklin Energy (2015)			3	Appliance Recycling	2009	Franklin Energy
City of Petoskey			4		2009	Franklin Energy (2015)
Petoskey					1	· · · · · · · · · · · · · · · · · · ·
C & I						
C & I   Small Business Direct Install   2011   Franklin Energy (2015)	Petoskey				1	
A   Education Services   2009   Franklin Energy (2015)					1	
S		C & I			1	
Eval					1	
Residential   Residential Low Income   2009   Franklin Energy (2015)						
Residential			Evai	Evaluation & Verification	2009	DNV-GL
Residential   3   Appliance Recycling   2009   Franklin Energy   4   Residential Education Services   2009   Franklin Energy   2015   5   Residential Appliances & HVAC   2010   Franklin Energy   2015   7   2   2   2   2   2   2   2   2   2			1	Residential Low Income	2009	Franklin Energy (2015)
A Residential Education Services   2009   Franklin Energy (2015)			2	Efficient Lighting Program	2009	Franklin Energy
Sortland Light and Power Board   Society		Residential	3	Appliance Recycling	2009	Franklin Energy
S	Portland Light				1	
C & I   Prescriptive Incentive   2009   Franklin Energy	J					37
C & I   2   Custom Incentive   2009   Franklin Energy				•	1	
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Residential   Residential Low Income   2009   Franklin Energy (2015)		C & I				
Residential   Residential Low Income   2009   Franklin Energy (2015)						
Residential   Residential			Evai	Evaluation & Verification	2009	DNV-GL
Residential     2			1	Residential Low Income	2009	Franklin Energy (2015)
Residential   Appliance Recycling   2009   Franklin Energy						
A   Residential Education Services   2009   Franklin Energy (2015)		Desidential			1	
5   Residential Appliances & HVAC   2010   Franklin Energy		Residential		· · · ·		
City of St. Louis         6         Residential Pilot Programs         2010 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 Franklin Energy (2015)			5		+	
2         Custom Incentive         2009         Franklin Energy           3         Small Business Direct Install         2011         Franklin Energy           4         Education Services         2009         Franklin Energy (2015)	,				2010	Internally
C & I 3 Small Business Direct Install 2011 Franklin Energy 4 Education Services 2009 Franklin Energy (2015)	Louis			•	2009	Franklin Energy
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4 Education Services 2009 Franklin Energy (2015)		C&I				
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MPPA Collaborative (continued)							
Utility	Sector		Program Type	Year Imp.	Implementation Contractors		
		1	Residential Low Income	2009	Franklin Energy (2015)		
		2	Efficient Lighting Program	2009	Franklin Energy		
	Residential	3	Residential Home Energy Program	2012	Internally		
		4	Residential Education Services	2009	Franklin Energy (2015)		
		5	Residential Appliances & HVAC	2010	Franklin Energy		
City of Sturgis		1	Prescriptive Incentive	2009	Franklin Energy		
		2	Custom Incentive	2009	Franklin Energy		
	C & I	3	Small Business Direct Install	2011	Franklin Energy		
	Out	4	Pilot Programs	2010	Internally		
		5	Education Services	2009	Franklin Energy (2015)		
		Eval	Evaluation & Verification	2009	DNV-GL		
		1	Residential Low Income	2009	Internally (2018)		
		2	Efficient Lighting Program	2009	Internally (2018)		
	Residential	3	Appliance Recycling	2009	Internally (2018)		
	. 100.001.110.	4	Residential Education Services	2009	Internally (2018)		
Traverse City		5	Residential Appliances & HVAC	2009	Internally (2018)		
Light and		6	Residential Pilot Programs	2009	Internally (2018)		
Power		1	Prescriptive Incentive	2009	Internally (2018)		
	C & I	2	Custom Incentive	2009	Internally (2018)		
		3	Small Business Direct Install	2011	Internally (2018)		
		4	Education Services	2009	Internally (2018)		
		5	Pilot Programs	2009	Internally (2018)		
		Eval	Evaluation & Verification	2009	DNV-GL		
		Τ 4	Desidential Levels and	2000	latera elle		
	Residential	1	Residential Low Income	2009	Internally		
		2	Efficient Lighting Program	2009	Internally Franklin Energy		
		4	Appliance Recycling Residential Education Services	2009			
Wyandotte				2009	Internally		
Municipal		5 6	Residential Pilot Programs	2009	Internally		
Services		1	Residential Appliances & HVAC Prescriptive Incentive	2010	Franklin Energy Franklin Energy		
Services		2	Custom Incentive	2009	Franklin Energy		
	C & I	3	Pilot Programs	2009	Internally		
	Odi	4	Education Services	2009	Internally		
		Eval	Evaluation & Verification	2009	DNV-GL		
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		1 1	Residential Low Income	2009	Franklin Energy (2015)		
		2	Efficient Lighting Program	2009	Franklin Energy		
	5	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		
	Out	4	Education Services	2009	Internally		
		Eval	Evaluation & Verification	2010	DNV-GL		

#### MWh Data

		1.00%		1.00%
Electric Municipals	2018	2018	%	1.00 /6
Electric marnolpais	Target	Actual	Achieved	2019 Target
Bay City Electric Light & Power	2,191	2,680	122%	2,260
City of Charlevoix	454	496	109%	562
Chelsea Electric Department	649	936	144%	683
Village of Clinton	210	213	102%	213
Coldwater Board of Public Utilities	3,643	7,463	205%	2,430
Croswell Light & Power Department	319	229	72%	410
Daggett Electric Department	11	12	105%	11
City of Eaton Rapids	667	558	84%	1,035
Escanaba Electric Department	1,414	1,503	106%	1,411
Grand Haven Board of Light and Power	2,022	3,171	157%	2,053
City of Hart Hydro Electric	324	302	93%	525
Holland Board of Public Works	7,300	12,613	173%	7,420
Lansing Board of Water & Light	19,488	21,845	112%	21,823
Lowell Light and Power	541	735	136%	550
Marquette Board of Light and Power	3,025	3,300	109%	2,987
City of Marshall Electric Department	1,019	1,105	108%	975
Newberry Water & Light Board	172	190	110%	167
Niles Utilities Department	1,130	848	75%	1,285
Village of Paw Paw	275	303	110%	287
City of Petoskey	685	993	145%	688
Portland Light and Power Board	241	242	101%	246
Sebewaing Light & Water Dept.	269	283	105%	269
South Haven Dept. of Public Works	1,380	1,445	105%	1,387
City of St. Louis	245	239	98%	245
City of Stephenson	61	67	111%	59
City of Sturgis	1,569	1,437	92%	1,590
Traverse City Light & Power	2,342	2,426	104%	3,214
Union City	141	141	100%	150
City of Wakefield	87	NO	DATA AVAII	LABLE
Wyandotte Municipal Services	1,552	882	57%	1,541
Zeeland Board of Public Works	3,903	3,340	86%	3,944

Actual 2018 Expenditures

Actual 2018 Expenditures						
Electric Municipals	Total 2018	Residential w/o Low Income	Residential With Low Income	Commercial & Industrial	Low Income	Admin & Eval
Bay City Electric Light & Power	\$532,965	\$196,238	\$252,223	\$237,542	\$55,985	\$43,200
City of Charlevoix	\$88,297	\$30,147	\$38,615	\$45,456	\$8,468	\$4,226
Chelsea Electric Department	\$115,982	\$31,490	\$33,230	\$77,374	\$1,740	\$5,378
Village of Clinton	\$16,476	\$7,348	\$7,632	\$5,844	\$284	\$3,000
Coldwater Board of Public Utilities	\$467,884	\$39,345	\$48,808	\$299,578	\$9,463	\$119,498
Croswell Light & Power Department	\$38,839	\$2,544	\$2,827	\$32,826	\$283	\$3,186
Daggett Electric Department	\$3,611	\$788	\$1,183	\$1,666	\$395	\$762
City of Eaton Rapids	\$105,270	\$39,729	\$46,283	\$54,745	\$6,554	\$4,242
Escanaba Electric Department	\$213,981	\$53,237	\$57,562	\$146,925	\$4,325	\$9,494
Grand Haven Board of Light & Power	\$400,151	\$139,767	\$140,281	\$243,395	\$514	\$16,475
City of Hart Hydro Electric	\$59,968	\$10,106	\$11,904	\$44,581	\$1,798	\$3,483
Holland Board of Public Works	\$1,051,787	\$267,062	\$323,084	\$605,691	\$56,022	\$123,012
Lansing Board of Water & Light	\$3,833,012	\$1,017,378	\$1,256,625	\$2,156,979	\$239,247	\$419,408
Lowell Light and Power	\$101,097	\$15,737	\$16,909	\$75,637	\$1,172	\$8,551
Marquette Board of Light and Power	\$464,290	\$181,916	\$190,274	\$254,978	\$8,358	\$19,038
City of Marshall Electric Department	\$68,559	\$15,681	\$18,662	\$34,604	\$2,981	\$15,293
Newberry Water & Light Board	\$36,149	\$9,587	\$10,886	\$22,138	\$1,299	\$3,125
Niles Utilities Department	\$148,650	\$53,622	\$64,758	\$76,868	\$11,136	\$7,024
Village of Paw Paw	\$49,052	\$18,161	\$20,365	\$25,032	\$2,204	\$3,655
City of Petoskey	\$120,401	\$38,989	\$44,963	\$69,325	\$5,974	\$6,113
Portland Light and Power Board	\$53,148	\$25,936	\$31,910	\$17,928	\$5,974	\$3,310
Sebewaing Light & Water Dept.	\$56,281	\$6,380	\$9,375	\$41,506	\$2,995	\$5,400
South Haven Dept. of Public Works	\$241,307	\$74,379	\$85,446	\$146,919	\$11,067	\$8,942
City of St. Louis	\$47,839	\$17,944	\$22,178	\$21,926	\$4,234	\$3,735
City of Stephenson	\$12,752	\$3,721	\$4,569	\$6,948	\$848	\$1,235
City of Sturgis	\$241,546	\$49,463	\$66,863	\$163,741	\$17,400	\$10,942
Traverse City Light & Power	\$264,869	\$30,605	\$31,681	\$154,561	\$1,076	\$78,627
Union City	\$15,020	\$5,787	\$5,950	\$5,645	\$163	\$3,425
City of Wakefield			NO DATA A	/AILABLE		
Wyandotte Municipal Services	\$108,862	\$35,729	\$37,800	\$58,354	\$2,071	\$12,708
Zeeland Board of Public Works	\$437,086	\$75,687	\$84,329	\$341,631	\$8,642	\$11,126

Energy Waste Reduction Administration and Residential Surcharges for 2018							
Electric Municipals	Docket No.	Administration 2018	EWR Residential Surcharge per \$/kWh or Per Meter				
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	\$0.00268				
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	\$0.00225				
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	\$0.75 Per Meter				