STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

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In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the CITY OF BAY CITY to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.) Case No. U-18282)))))))
In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the CITY OF CHARLEVOIX to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.) Case No. U-18283))))))
In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the CHELSEA DEPARTMENT OF ELECTRIC AND WATER to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.) Case No. U-18284)))))))))))))))))))
In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the VILLAGE OF CLINTON to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.)) Case No. U-18285)))
In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the COLDWATER BOARD OF PUBLIC UTILITIES to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.	Case No. U-18286))))

In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the CROSWELL MUNICIPAL LIGHT & POWER DEPARTMENT to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.) Case No. U-18287) Case No. U-18287)
In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the DAGGETT ELECTRIC DEPARTMENT to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.))) Case No. U-18289))
In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the CITY OF EATON RAPIDS to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.))) Case No. U-18292)))
In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the CITY OF ESCANABA to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.	Case No. U-18293
In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the GRAND HAVEN BOARD OF LIGHT AND POWER to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.	Case No. U-18295)
In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the CITY OF HART HYDRO to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.	Case No. U-18297

In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the Case No. U-18299 HOLLAND BOARD OF PUBLIC WORKS to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the Case No. U-18301 LANSING BOARD OF WATER & LIGHT to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for Case No. U-18302 LOWELL LIGHT AND POWER to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the Case No. U-18303 MARQUETTE BOARD OF LIGHT AND POWER to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the Case No. U-18304 CITY OF MARSHALL ELECTRIC DEPARTMENT to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the Case No. U-18306 NEWBERRY WATER & LIGHT BOARD to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.

In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the Case No. U-18307 NILES UTILITY DEPARTMENT to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for Case No. U-18309 the VILLAGE OF PAW PAW to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for Case No. U-18310 the CITY OF PETOSKEY to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for Case No. U-18311 the CITY OF PORTLAND to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for Case No. U-18312 the CITY OF SEBEWAING to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for Case No. U-18313 the CITY OF SOUTH HAVEN to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.

In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for Case No. U-18314 the CITY OF ST. LOUIS to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for Case No. U-18315 the CITY OF STEPHENSON to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for Case No. U-18316 the CITY OF STURGIS to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, Case No. U-18317 determinations, and/or approvals necessary for TRAVERSE CITY LIGHT & POWER to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for the Case No. U-18318 UNION CITY ELECTRIC DEPARTMENT to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016. In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for Case No. U-18319 the CITY OF WAKEFIELD to fully comply with Public Act 295 of 2008, as amended by Public Act 342 of 2016.

In the matter, on the Commission's own motion,	
regarding the regulatory reviews, revisions,	
determinations, and/or approvals necessary for	Case No. U-18320
the WYANDOTTE DEPARTMENT OF	
MUNICIPAL SERVICE to fully comply with	
Public Act 295 of 2008, as amended by	
Public Act 342 of 2016.	
In the matter, on the Commission's own motion,	
regarding the regulatory reviews, revisions,	
determinations, and/or approvals necessary for the	Case No. U-18321
ZEELAND BOARD OF PUBLIC WORKS to	
fully comply with Public Act 295 of 2008, as	
amended by Public Act 342 of 2016.	
)

JOINT SUBMITTAL OF ENERGY WASTE REDUCTION 2017 ANNUAL REPORT

Pursuant to the Michigan Public Service Commission's Order issued February 5, 2018, the utilities listed in the above caption hereby submit the attached Energy Waste Reduction 2017 Annual Report.

Respectfully submitted,

DICKINSON WRIGHT PLLC
Attorneys for Michigan Municipal Electric Association

By:

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MICHIGAN MUNICIPAL ELECTRIC ASSOCIATION

By:

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Dated: May 31, 2018

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

·		1	INDEPENDENTLY ADMINISTE		1
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 Residential Appliances & HVAC	2009 2009	Internally Internally
Clinton		1	Business Services	2009	Internally
	C & I	2	Education Services	2009	Internally
		Eval	Evaluation & Verification	2009	Local Police Officer
I		1	Residential Low Income	2009	Internally
		2	Efficient Lighting Program	2009	Internally
	Residential	3	Appliance Recycling	2009	In transition
Coldwater	rtoolaoritiai	4	Residential Education Services	2009	Internally
		5	Residential Appliances & HVAC	2009	Internally
Board of		7	Residential Pilot Programs	2009	Internally
ublic Utilities		1	Prescriptive Incentive	2009	Internally
	C & I	3	Custom Incentive Education Services	2009 2009	Internally Internally
	σαι	4	Pilot Programs	2009	Internally
		Eval	Evaluation & Verification	2010	E3M Solutions
		1 1	Residential Low Income	2009	MEO & Internally
		2	Efficient Lighting Program	2009	MEO/WECC
		3	Appliance Recycling	2009	MEO/WECC
_ansing Board of Water & Light	Residential	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
		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 Pilot Programs	2009 2010	Internally Internally
		Eval	Evaluation & Verification	2009	DNV-GL
I		1 1	Residential Low Income	2009	Internally
	Residential	2	Residential Services	2009	Internally
City of		3	Residential Education Services	2009	Internally
City of Marshall		1	Prescriptive Incentive	2009	Internally
Marshall	C & I	2	Custom Incentive	2009	Internally
	Cai	3	Education Services	2009	Internally
		Eval	Evaluation & Verification	2010	Internally
		1	Residential Low Income	2009	Internally
		2	Residential Services	2009	Internally
	Residential	3	Residential Education Services	2009	Internally
		4	Residential Pilot	2010	Internally
Sebewaing		5	Residential Appliances & HVAC	2010	Internally
		2	Prescriptive Incentive Custom Incentive	2009	Internally Internally
	C & I	3	Education Services	2009	Internally
	0 4 1	4	Pilot Programs	2010	Internally
		Eval	Evaluation & Verification	2009	DNV-GL
I		1 1	Residential Low Income	2009	Internally
Libera Con	Residential	2	Efficient Lighting Program	2009	Internally
Union City		3	Residential Education Services	2009	Internally
Electric		1	Prescriptive Incentive Program	2009	Internally
Department	C&I	2	Education Services	2009	Internally
		Eval	Evaluation & Verification	2009	Local Police Officer
		1	Residential Low Income	2009	Internally
	Residential	2	Residential Services	2009	Internally
City of		3	Residential Education Services	2009	Internally
Wakefield		1	Business Services	2009	Internally
	C&I	2	Education Services	2009	Internally

			MECA COLLABORATIVE		ATTACHWENT
Utility	Sector		Program Type	Year Imp.	Implementation Contractors
		1	Income Qualified	2016	WECC
	Docido-41-1	2	High Efficiency Products	2016	WECC
Daggett	Residential	3	Education Services Pilot Programs	2016 2016	WECC
Electric		1	General Business Services	2016	WECC
Department	~ • •	2	Education Services	2016	WECC
_	C & I	3	Pilot Programs	2016	WECC
		Eval	Evaluation & Verification	2016	DNV-GL
		1	Income Qualified	2009	WECC
		2	High Efficiency Products	2009	WECC
	Residential	3	Appliance Recycling Efficient HVAC	2009	WECC
Escanaba	เรองเนติแนน์	5	Audit & Weatherization / New Construction	2009 2009	WECC
Electric		6	Education Services	2009	WECC
Department		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
		1	Residential Low Income	2009	WECC
		2	High Efficiency Products	2009	WECC
	Residential	3	Appliance Recycling	2009	WECC
		4	Efficient HVAC	2009	WECC
Marquette		5	Audit & Weatherization / New Construction	2009	WECC
Board of Light & Power		6 7	Education Services Pilot Programs	2009	WECC WECC
G F ∪Wel		1	Pilot Programs General Business Services	2009 2009	WECC
	<u> </u>	2	Education Services	2009	WECC
	C&I	3	Pilot Programs	2009	WECC
		Eval	Evaluation & Verification	2009	DNV-GL
I		1	Residential Low Income	2009	WECC
		2	High Efficiency Products	2009	WECC
		3	Appliance Recycling	2009	WECC
	Residential	4	Efficient HVAC	2009	WECC
Newberry Water & Light		5	Audit & Weatherization / New Construction	2009	WECC
Water & Light Board		6 7	Education Services Pilot Programs	2009 2009	WECC
Dodia	1	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
			Posidortial Law Issar-	2012	WECC
		2	Residential Low Income High Efficiency Products	2016 2016	WECC WECC
		3	Appliance Recycling	2016	WECC
		4	Efficient HVAC	2016	WECC
Saute II	Residential	5	Audit & Weatherization / New Construction	2016	WECC
South Haven		6	Farm Services	2016	WECC
Dept. of Public Works		7	Education Services	2016	WECC
. abiic vvOiKS		8	Pilot Programs	2016	WECC
	C & I	1	General Business Services	2016	WECC
		ı			DATE OO
	C & I	2	Education Services	2016	WECC
	C & I	2 3 Eval	Education Services Pilot Programs Evaluation & Verification	2016 2016 2016	WECC WECC DNV-GL
	C & I	3	Pilot Programs	2016	WECC
	C & I	3 Eval	Pilot Programs Evaluation & Verification Residential Low Income	2016 2016 2009	WECC DNV-GL WECC
	C & I	3 Eval	Pilot Programs Evaluation & Verification Residential Low Income High Efficiency Products	2016 2016 2009 2009	WECC DNV-GL WECC WECC
		3 Eval 1 2 3	Pilot Programs Evaluation & Verification Residential Low Income High Efficiency Products Appliance Recycling	2016 2016 2009 2009 2009	WECC DNV-GL WECC WECC WECC
	C & I	3 Eval 1 2 3 4	Pilot Programs Evaluation & Verification Residential Low Income High Efficiency Products Appliance Recycling Efficient HVAC	2016 2016 2009 2009 2009 2009	WECC DNV-GL WECC WECC WECC WECC
City of		3 Eval 1 2 3 4 5	Pilot Programs Evaluation & Verification Residential Low Income High Efficiency Products Appliance Recycling Efficient HVAC Audit & Weatherization / New Construction	2016 2016 2009 2009 2009 2009 2009 2009	WECC DNV-GL WECC WECC WECC WECC WECC WECC
City of Stephenson		3 Eval 1 2 3 4 5 6	Pilot Programs Evaluation & Verification Residential Low Income High Efficiency Products Appliance Recycling Efficient HVAC Audit & Weatherization / New Construction Education Services	2016 2016 2009 2009 2009 2009 2009 2009 2009	WECC DNV-GL WECC WECC WECC WECC WECC WECC WECC
-		3 Eval 1 2 3 4 5	Pilot Programs Evaluation & Verification Residential Low Income High Efficiency Products Appliance Recycling Efficient HVAC Audit & Weatherization / New Construction Education Services Pilot Programs	2016 2016 2009 2009 2009 2009 2009 2009 2009 200	WECC DNV-GL WECC WECC WECC WECC WECC WECC WECC WE
-	Residential	3 Eval 1 2 3 4 5 6 7	Pilot Programs Evaluation & Verification Residential Low Income High Efficiency Products Appliance Recycling Efficient HVAC Audit & Weatherization / New Construction Education Services	2016 2016 2009 2009 2009 2009 2009 2009 2009	WECC DNV-GL WECC WECC WECC WECC WECC WECC WECC
		3 Eval 1 2 3 4 5 6 7	Pilot Programs Evaluation & Verification Residential Low Income High Efficiency Products Appliance Recycling Efficient HVAC Audit & Weatherization / New Construction Education Services Pilot Programs General Business Services	2016 2016 2009 2009 2009 2009 2009 2009 2009 200	WECC DNV-GL WECC WECC WECC WECC WECC WECC WECC WE

MPPA Collaborative						
Utility	Sector		Program Type	Year Imp.	Implementation Contractors	
		1	Residential Low Income	2009	Internally	
		2	Efficient Lighting Program	2009	Internally	
		3	Appliance Recycling	2009	Internally	
	Residential	4	Residential Education Services	2009	Internally	
		5	Residential Appliances & HVAC	2010	Internally	
Bay City		6	Residential Home Energy Programs	2010	Internally	
Electric Light		8	Electric Water Heater Saving Kits Residential Pilot Programs	2010 2010	Internally Internally	
& Power		1	Prescriptive Incentive	2010	Franklin Energy	
		2	Custom Incentive	2009	Franklin Energy	
		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	2009	Franklin Energy (2015)	
		2	Efficient Lighting Program	2009	Franklin Energy	
	Residential	3	Appliance Recycling	2009	Franklin Energy	
0		4	Residential Education Services	2009	Franklin Energy (2015)	
City of		5	Residential Appliances & HVAC	2010	Franklin Energy	
Charlevoix		1	Prescriptive Incentive	2009	Franklin Energy	
	C & I	2	Custom Incentive	2009	Franklin Energy	
	Cai	3	Small Business Direct Install	2011	Franklin Energy (2015)	
		Eval	Education Services Evaluation & Verification	2009	Franklin Energy (2015) DNV-GL	
		Lvai	Evaluation & Verification	2009	JDIVV-GL	
		1 1	Residential Low Income	2009	Franklin Energy (2015)	
	Do de la consta	2	Efficient Lighting Program	2009	Franklin Energy	
Chelsea		3	Appliance Recycling	2009	Franklin Energy	
	Residential	4	Residential Education Services	2009	Franklin Energy (2015)	
		6	Residential Appliances & HVAC	2010	Franklin Energy	
Electric		7	Residential Pilot Programs	2010	Franklin Energy (2015)	
Department		1	Prescriptive Incentive	2009	Franklin Energy	
Верантен		2	Custom Incentive	2009	Franklin Energy	
	C & I	3	Small Business Direct Install	2011	Franklin Energy	
	0 4 1	4	Education Services	2009	Franklin Energy (2015)	
		5	Pilot Programs	2010	Franklin Energy (2015)	
		Eval	Evaluation & Verification	2009	DNV-GL	
		T 1	Residential Low Income	2009	Internally	
		2	Efficient Lighting	2009	Internally	
		3	Appliance Recycling	2009	Franklin Energy	
	Residential	4	Efficient Appliances & HVAC	2009	Franklin Energy	
		5	Residential Pilot Programs	2009	Internally	
Croswell Light & Power		6	Educational Services	2009	Internally	
α rower		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	
			Decidential Law Income	0000	Frenklin Frence (0045)	
		1	Residential Low Income	2009	Franklin Energy (2015)	
		3	Efficient Lighting Program Appliance Recycling	2009	Franklin Energy Franklin Energy	
	Residential	4	Residential Education Services	2009	Franklin Energy (2015)	
	ROSIGORIUM	5	Residential Pilot Programs	2010	Franklin Energy (2015)	
		6	Residential Appliances & HVAC	2010	Franklin Energy	
City of Eaton		7	Residential Home Energy Program	2012	Franklin Energy (2015)	
Rapids		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	
I		5	Pilot Programs	2010	Internally	
		Eval	Evaluation & Verification		DNV-GL	

			MPPA Collaborative (continu	ıed)	
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
	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
& I Owel		1	Prescriptive Incentive	2009	Franklin Energy
		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	2010	Internally
		Eval	Evaluation & Verification	2009	DNV-GL
				T	
		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
	C & I	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
		1		T	Tr. 1 1119 / 2 11 9
					Lakeshore Habitat for Humanity,
					Community Action House, Salvation Arm
		1	Residential Low Income	2009	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					Internally, National Energy Foundation,
Works		_	Built date Lordon Control		West Michigan Environmental Action
		7	Residential Education Services	2009	Council
-		8	Residential Pilot Programs	2009	Internally, Ottawa County CAA
_		8	Residential Pilot Programs Prescriptive Incentive	2009 2009	Internally, Ottawa County CAA Internally (2015)
-		8 1 2	Residential Pilot Programs Prescriptive Incentive Custom Incentive	2009 2009 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015)
	C & I	8 1 2 3	Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install	2009 2009 2009 2011	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015)
	C & I	8 1 2 3 4	Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install Education Services	2009 2009 2009 2011 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally
	C & I	8 1 2 3 4 5	Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install Education Services Pilot Programs	2009 2009 2009 2011 2009 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally Internally
	C & I	8 1 2 3 4	Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install Education Services	2009 2009 2009 2011 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally
	C & I	8 1 2 3 4 5 Eval	Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install Education Services Pilot Programs Evaluation & Verification	2009 2009 2009 2011 2009 2009 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally Internally Internally DNV-GL
	C & I	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	2009 2009 2009 2011 2009 2009 2009 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally Internally Internally Internally Internally Internally
		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	2009 2009 2009 2011 2009 2009 2009 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally Internally Internally Internally Internally Internally Internally Internally Internally
	C & I	8 1 2 3 4 5 Eval 1 2 3	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	2009 2009 2009 2011 2009 2009 2009 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally Franklin Energy
		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	2009 2009 2009 2011 2009 2009 2009 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally
Lowell Light		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 Residential Appliances & HVAC	2009 2009 2009 2011 2009 2009 2009 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally Franklin Energy Internally Franklin Energy
_		8 1 2 3 4 5 Eval 1 2 3 4 5 6	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 Appliances & HVAC Residential Pilot Programs	2009 2009 2009 2011 2009 2009 2009 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally Internally Internally Internally Internally Internally Internally Internally Internally Franklin Energy Internally Franklin Energy Internally Internally
Lowell Light and Power		8 1 2 3 4 5 Eval 2 3 4 5 6 1 1	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 Appliances & HVAC Residential Pilot Programs Prescriptive Incentive	2009 2009 2009 2011 2009 2009 2009 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally Internally Internally Internally Internally Internally Internally Internally Franklin Energy Internally Franklin Energy Internally Franklin Energy Internally Franklin Energy
_	Residential	8 1 2 3 4 5 Eval 2 3 4 5 6 6 1 2	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 Appliances & HVAC Residential Pilot Programs Prescriptive Incentive Custom Incentive	2009 2009 2009 2011 2009 2009 2009 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally Internally Internally Internally Internally Internally Internally Internally Iranklin Energy Internally Franklin Energy Franklin Energy
		8 1 2 3 4 5 Eval 2 3 4 5 6 1 2 3 3	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 Appliances & HVAC Residential Pilot Programs Prescriptive Incentive Custom Incentive Small Business Direct Install	2009 2009 2009 2011 2009 2009 2009 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally Internally Internally Internally Internally Internally Internally Internally Iranklin Energy Internally Franklin Energy Franklin Energy Franklin Energy
Lowell Light and Power	Residential	8 1 2 3 4 5 Eval 2 3 4 5 6 6 1 2	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 Appliances & HVAC Residential Pilot Programs Prescriptive Incentive Custom Incentive	2009 2009 2009 2011 2009 2009 2009 2009	Internally, Ottawa County CAA Internally (2015) Internally (2015) Internally (2015) Internally Internally Internally Internally Internally Internally Internally Iranklin Energy Internally Franklin Energy Franklin Energy

ATTACHMENT A							
		1	MPPA Collaborative (continu	lea)			
Utility	Sector		Program Type	Year Imp.	Implementation Contractors		
		1	Residential Low Income	2010	Franklin Energy (2015)		
		2	Efficient Lighting Program	2009	Franklin Energy		
	Residential	3	Appliance Recycling	2009	Franklin Energy		
Niles Utilities		5	Residential Education Services Residential Appliances & HVAC	2009	Franklin Energy (2015) Franklin Energy		
Department		1	Prescriptive Incentive	2009	Franklin Energy		
Dopartificht		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		
	Desidential	3	Appliance Recycling	2009	Franklin Energy		
	Residential	4	Residential Multi-Family In-Unit Efficiency	2009	Franklin Energy		
Village of Paw		5	Residential Education Services	2009	Franklin Energy (2015)		
Paw		6	Residential Appliances & HVAC	2010	Franklin Energy		
1 aw		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) DNV-GL		
		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)		
		5	Residential Appliances & HVAC	2010	Franklin Energy		
City of		6	Pilot Programs	2010	Franklin Energy (2015)		
Petoskey		1	Prescriptive Incentive	2009	Franklin Energy		
	C & I	2	Custom Incentive	2009	Franklin Energy		
		3 4	Small Business Direct Install Education Services	2011	Franklin Energy Franklin Energy (2015)		
		5	Pilot Programs	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		
Portland Light		4	Residential Education Services Residential Appliances & HVAC	2009	Franklin Energy (2015)		
and Power		5 1	Prescriptive Incentive	2010 2009	Franklin Energy Franklin Energy		
Board		2	Custom Incentive	2009	Franklin Energy		
	C & I	3	Small Business Direct Install	2011	Franklin Energy		
	- u	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 4	Appliance Recycling	2009	Franklin Energy (2015)		
		5	Residential Education Services Residential Appliances & HVAC	2009	Franklin Energy (2015)		
City of St.		6	Residential Pilot Programs	2010	Franklin Energy Internally		
Louis		1	Prescriptive Incentive	2009	Franklin Energy		
200.0		2	Custom Incentive	2009	Franklin Energy		
	_	3	Small Business Direct Install	2011	Franklin Energy		
	C & I	4	Education Services	2009	Franklin Energy (2015)		
		5	Pilot Programs	2010	Internally		
1							

			MPPA Collaborative (cont	inued)	
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
	0 4 1	4	Pilot Programs	2010	Internally
		5	Education Services	2009	Franklin Energy (2015)
		Eval	Evaluation & Verification	2009	DNV-GL
		1 1	Residential Low Income	2009	Franklin Energy (2016)
		2	Efficient Lighting Program	2009	Franklin Energy (2016)
	Residential	3	Appliance Recycling	2009	Franklin Energy (2016)
		4	Residential Education Services	2009	Franklin Energy (2016)
		5	Residential Appliances & HVAC	2009	Internally & Franklin Energy
raverse City		6	Residential Pilot Programs	2009	Internally & Franklin Energy (2015)
Light and - Power		1	Prescriptive Incentive	2009	Franklin Energy (2016)
		2	Custom Incentive	2009	Franklin Energy (2016)
		3	Small Business Direct Install	2011	Franklin Energy (2016)
	C & I	4	Education Services	2009	Franklin Energy (2016)
		5	Pilot Programs	2009	Franklin Energy (2016)
		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
	rtoolaoritiai	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
	0.01	2	Custom Incentive	2009	Franklin Energy
	C & I	3	Pilot Programs	2009	Internally
		4	Education Services Evaluation & Verification	2009	Internally DNV-GL
		Eval	Evaluation & Verification	2009	JDNV-GL
		1	Residential Low Income	2009	Franklin Energy (2015)
		2	Efficient Lighting Program	2009	Franklin Energy
	Docidontial	3	Appliance Recycling	2010	Franklin Energy
	Residential	4	Residential Education Services	2009	Internally
eeland 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

MWh Data		1.00%		1.00%
Electric Municipals	2017	2017	%	2018
	Target	Actual	Achieved	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

Actual 2017 Expenditures

Actual 2017 Expenditures						
Electric Municipals	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

Energy Waste Reduction Administratio	n and Resid	dential Surcharg	es for 2017
Electric Municipals	Docket No.	Administration 2017	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	\$0.00185
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