

Energy Optimization 2016 Annual Report for Michigan Electric Municipal Utilities

Introduction

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

- Section 1 will address the requirements under PA 295 Section 97, Subsections 1-3 and Section 71, Subsection 3 (i).
- Section 2 will summarize the EO programs implemented in 2016.

SECTION 1: PA 295 SECTION 97 AND SECTION 71 REQUIREMENTS

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

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

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

The number of energy optimization credits (in megawatt hours) generated for 2016 and the targets for 2017 are shown in Attachment B for the municipal utilities. The expenditures for 2016 for the Low Income, Residential, Commercial/Industrial programs and Administration/EM&V can be found in Attachment C. The EO Residential surcharge for each municipal in cost per kilowatt hour (or cost per meter) along with the responsible party for administration of programs is listed in Attachment D.

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

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

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

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

SECTION 2: SUMMARY OF EO PROGRAMS IMPLEMENTED IN 2016

Residential Low Income Services

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

Residential Solutions

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

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

Business Solutions

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

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

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

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

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

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

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

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

MWh Data

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

Actual 2016 Expenditures

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

| Energy Optimization Administration and Residential Surcharges for 2016 | | | |
|---|-------------------|----------------------------|---|
| Electric Municipals | Docket No. | Administration 2016 | EO Residential Surcharge per \$/kWh or Per Meter |
| Bay City Electric Light & Power | U-17382 | MPPA | 0.000825 |
| City of Charlevoix | U-17383 | MPPA | \$0.00178 |
| Chelsea Electric Department | U-17384 | MPPA | \$0.00100 |
| Village of Clinton | U-17385 | Independently | \$0.00000 |
| Coldwater Board of Public Utilities | U-17386 | Independently | \$0.00252 |
| Croswell Light & Power Department | U-17387 | MPPA | \$0.00169 |
| Daggett Electric Department | U-17389 | MECA | \$0.01280 |
| City of Eaton Rapids | U-17392 | MPPA | \$0.00080 |
| Escanaba Electric Department | U-17393 | MECA | \$0.00216 |
| Grand Haven Board of Light and Power | U-17395 | MPPA | \$0.00180 |
| City of Hart Hydro Electric | U-17397 | MPPA | \$0.00130 |
| Holland Board of Public Works | U-17399 | MPPA | \$0.00166 |
| Lansing Board of Water & Light | U-17401 | Independently | \$0.00185 |
| Lowell Light and Power | U-17402 | MPPA | \$0.00163 |
| Marquette Board of Light and Power | U-17403 | MECA | \$0.00171 |
| City of Marshall Electric Department | U-17404 | Independently | \$0.00000 |
| Newberry Water & Light Board | U-17406 | MECA | \$0.00137 |
| Niles Utilities Department | U-17407 | MPPA | \$0.00000 |
| Village of Paw Paw | U-17409 | MPPA | \$0.00120 |
| City of Petoskey | U-17410 | MPPA | \$0.00182 |
| Portland Light and Power Board | U-17411 | MPPA | \$0.00132 |
| Sebewaing Light & Water Dept. | U-17412 | Independently | \$0.00174 |
| Southaven Dept. of Public Works | U-17413 | MECA | \$0.00161 |
| City of St. Louis | U-17414 | MPPA | \$0.00114 |
| City of Stephenson | U-17415 | MECA | \$0.00224 |
| City of Sturgis | U-17416 | MPPA | \$0.00191 |
| Traverse City Light & Power | U-17417 | MPPA | \$0.00000 |
| Union City | U-17418 | Independently | \$0.00090 |
| City of Wakefield | U-17419 | Independently | \$0.00170 |
| Wyandotte Municipal Services | U-17420 | MPPA | \$0.00197 |
| Zeeland Board of Public Works | U-17421 | MPPA | \$1.00 Per Meter |