Renewable Energy Annual Report

Revised February 2016

Electric Provider: **Lansing Board of Water & Light (BWL)**
Reporting Period: **Calendar Year 2015**

- Section 51(1) of 2008 PA 295 requires the filing of this document with the Michigan Public Service Commission.
- Many of the requested figures are available from MIRECS reports; names of which are noted within this template. If your figures agree with those within MIRECS, you may submit the MIRECS report as an attachment to this annual report. If your figures differ from those within MIRECS, please explain any discrepancies. Staff from the MPSC and MIRECS Administrator, APX, Inc., are available to help reconcile.

Section 51(1).
Within this section, list and describe actions taken by the electric provider to comply with the renewable energy standards.

a. Filings to the Commission (case numbers)

U-16619

b. Summary of actions taken during reporting period

– Continued development of a solar energy project with contractor groSolar for up to 20 MW of capacity and associated energy. – Continued development of a community solar program with a Michigan based project group. – Commenced an integrated resource planning (IRP) process involving community stakeholders to determine the BWL's energy and capacity needs over the next 20 years. – Conducted a survey of BWL residential and commercial customers to better understand their interest in BWL providing renewable energy. – Continued to pursue and explore renewable energy projects that would provide an increased renewable energy portfolio for our customers.

Section 51(2)(a).

Within this section, list the number of energy credits obtained and, if bundled credits, the MWh of electricity generated or otherwise acquired during the reporting period, including those credits transferred from ones wholesale electric supplier. This data may be found in MIRECS reports titled: My Generation Report and My Credit Transfers.

Credits From	Renewable Energy Credits	Incentive Credits	MWh Electricity Generated/Acquired
Generated (My Generation Report)	190	414	190.4
Purchased (My Credit Transfers)	147,252	8,397	146,833.5
Total Credits	147,442	8,811	147,023.9

Explain any differences between the data provided and MIRECS reports.

The MWh readings are taken from the accounting system. By contractual agreement with Tower Kleber and Beebe 1b, the financial reporting may not reflect the actual meter reads at the generator or the information entered into MIRECS.

Within this section, list the type of and number of energy credits sold, traded or otherwise transferred during the reporting period.

	Renewable Energy Credits	Incentive Credits
Sold, traded or otherwise transferred	0	0
Expired (not in compliance sub-account)	0	0

This data may be found in MIRECS reports titled: My Sub-Accounts (filtered by Michigan eligibility and its end date) and My Credit Transfers.

Section 51(2)(b).

Within this section, list the number of advanced cleaner energy credits obtained and, if bundled, the MWh of advanced cleaner energy generated or otherwise acquired during this reporting period. This data may be found in MIRECS reports titled: My Generation Report and My Credit Transfers.

	Advanced Cleaner Energy Credits	**MWh Electricity Generated/Acquired**
Generated (My Generation Report)	N/A	N/A
Purchased (My Credit Transfers)	N/A	N/A
Total Credits acquired	N/A	N/A

Did the percentage limits in Section 27(7) affect development of advanced cleaner energy by the electric provider? How so?

No

Section 51(2)(c).

Within this section, list each renewable energy system (RES) and advanced cleaner energy system (ACES) owned, operated or controlled by the electric provider. List the capacity of each system, the amount of electricity generated by each system and the percentage of electricity which was generated from renewable energy (RE) or advanced cleaner energy (ACE).

System Name[1]	**System Type (RES or ACES)**	**Nameplate Capacity (MW)**	**Electricity Generated (MWh)**	**% of Electricity generated by RE/ACE**
Moores Park Dam	RES	0.5	0	N/A
Cedar Street Solar Facility	RES	0.054	123.3	100%
REO Town Solar Facility	RES	0.013	18.4	100%
Cedar Street Solar Expansion	RES	0.104	48.7	100%

[1]System name should agree with the project name listed within MIRECS.
This data may be found in the Project Management module within MIRECS.

Within this section, list the renewable energy system (RES) and advanced cleaner energy systems (ACES) the electric provider is purchasing energy credits from. These include purchase power agreements. However, unbundled (credit only) purchases do not need to be listed here. Projects (generators) serving multijurisdictional electric providers should be listed here.

System Name	System Type (RES or ACES)	Electricity Purchased (MWh)	Energy Credits Purchased[1]	Allocation Factor and Method
Tower Kleber Hydro Plant	RES	6,298.1	7,019	100%
Granger Electric Company – Grand River #1, Wood Road #1, #2	RES	83,739.4	91,534	100%
Excelon Generation Company – Beebe 1B	RES	56,796.0	57,096	38% 19.2MW of 50.4MW

[1]Distinguish between different types of credits (REC or ACEC).

Allocation Factor and Method: For use if 100% of system output is not purchased. For instance, a system selling to multiple parties: list how the energy and credits are allocated – if by percentage, list the percentage as well.

Allocation Factor and Method: If used by multijurisdictional electric providers please include which percentage of energy and credits are to be distributed to Michigan (list allocation method as well, for example: system load).

Section 51(2)(d).

Within this section, list whether, during the reporting period, the electric provider entered into a contract for, began construction on, continued construction of, acquired, or placed into operation a renewable energy (RE) system or advanced cleaner energy (ACE) system.

System Name[1]	Resource (technology, RE/ACE)		Nameplate Capacity (MW)	Construction start date or acquisition date	Commercial operation date	Owned by electric provider?
N/A						
N/A						
N/A						

[1]System name should agree with the project name listed within MIRECS.

Dates may be forecast.

Section 51(2)(e).

Within this section, list the expenditures incurred during the reporting period to comply with the renewable energy standards or the forecasted expenditures for the remaining plan period. Also, electric providers with an approved or planned renewable energy surcharge (as per Section 45), list the incremental cost of compliance (ICC) incurred during the reporting period.

Total Costs to Comply with Renewable Energy Standard in 2015
$9,946,597

Forecast of total expenditures for the remaining plan period of 2016-2029
$189,899,837

Total Expenditures: ICC + Transfer Cost

Total Transfer Cost for 2015 (if any)
N/A

Transfer Cost: The component of renewable energy and capacity revenue recovered from PSCR clause.

Total ICC for 2015 (if had an approved or planned renewable energy surcharge in 2015)
$1,397,359

Forecast of the ICC for the remaining plan period (2016-2029)	Monthly residential surcharge ($3 or less)
$41,105,832	$0.75

Capital Expenditures for 2015 (if any)
$0

Capital Expenditure: An investment in a renewable energy capital asset.

Section 51(2)(f).

Within this section, list the method and the retail sales in MWh for the reporting period.

List the Method: either average of 2012-2014 retail sales or the 2014 weather normalized retail sales.

Average of 2012-2014 retail sales

The method chosen should be consistent with the method approved in the initial plan case from 2009. All sales are retail (net of wholesale).

(A) List the sales in MWh based on the method selected above. Please show the calculation of this figure (including listing the sales of each year if the three year average method is used).

2012 Retail Sales = 2,176,746 2013 Retail Sales = 2,144,520 2014 Retail Sales = 2,112,555 **3-Year Average Retail Sales = 2,144,607**

(B) Compliance: List the energy credits used for compliance for the 2015 compliance year. This number should agree with the compliance requirement listed in the 2015 compliance subaccount in MIRECS. Take into account any energy optimization or advanced cleaner energy credit substitutions and limits on their use.

215,439

Calculate the renewable energy percentage. Figure above divided by sales in MWh above (B divided by A).

10.05%

Does the “energy credits used for compliance for the 2015 compliance year” figure above include any credits representing energy generated within 120 days after the start of the next calendar year? Yes/No.

No

If yes, how many credits from 2016 generation are included?

N/A