

**Lansing Board of Water & Light
Renewable Energy Annual Report
MPSC Case No U-16619**

Electric Provider: Lansing Board of Water & Light

Reporting Period: Calendar Year 2012

- 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

- Filed the Renewable Energy Plan Biennial Review (U-16619) on July 1, 2011 as required by PA 295; and on October 4, 2011 the MPSC issued an order that found the BWL's plan complies with PA 295.
- Plans for considering biomass test burns have been put on hold until technology advances and availability of product increases.
- Pursuing potential wind energy options and collected data from a wind monitoring system.
- Issued a RFP for wind energy and evaluating proposals.
- Contracted for the refurbishment of one BWL owned existing hydro turbine.
- Considering solar projects.

Section 51(2)(a).

Within this section, list the type of and number of energy credits (either renewable energy credits or incentive renewable energy credits) obtained and the MWh of electricity generated or otherwise acquired during the reporting period. Distinguish between different vintages (years) obtained.

Credits From	Renewable Energy Credits	Incentive Credits	MWh Electricity Generated/Acquired
Existing, Co. Owned, pre PA 295	0	0	0
Built, Co. Owned (post PA 295)	65	140	67.6
Contracted (credits only)			
Contracted (energy and credits)	84,712	7,914	84,730.8
Total Credits acquired	84,777	8,054	84,798.4

This data may be found in MIRECS reports titled: My Generation Report and My Credit Transfers.

**Note: all the energy credits were 2009 Vintage.

Explain any differences between total credits acquired and the sum of the first four rows above.

Difference between MWh generated and RECs is due to rounding.

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

Credit no longer owned	Renewable Energy Credits	Incentive Credits	List sub-account name (indicate compliance year)
Sold, traded or otherwise transferred*	4856	276	NA
Expired (not in compliance sub-account)	32,014	5354	DefaultACT
Moved to compliance sub-account ¹	42,859	5460	2012 Compliance LBWL

¹Report separate compliance sub-accounts on different rows.

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

(*Sold 708 RECs to City of Croswell but not confirmed in MIRECS)

Within this section, report the total inventory of energy credits at the end of the reporting period. Inventory shall be reported by vintage year and not include credits within the current reporting year compliance sub-account.

Renewable Energy Credits	Incentive Credits	Advanced Cleaner Energy Credits
247,533	32,723	0

This data may be found in the MIRECS report titled: My Credit Breakdown.

Section 51(2)(b).

Within this section, list the number of advanced cleaner energy credits obtained and the MWh of advanced cleaner energy generated or otherwise acquired during this reporting period.

Credits From	Advanced Cleaner Energy Credits	MWh Electricity Generated/Acquired
Existing, Co. Owned, pre PA 295	NA	NA
Built, Co. Owned (post PA 295)	NA	NA
Contracted (credits only)	NA	NA
Contracted (energy and credits)	NA	NA
Total Credits acquired	NA	NA

This data may be found in MIRECS reports titled: My Generation Report and My Credit Transfers.

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
Cedar Street Solar Facility	RES-Solar	.054	67.6	100%
Moore's Park Dam	RES-Hydro	.5	0	100%

¹System 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
Granger Energy	RES-Landfill Gas	78,993.4	86,284	100%
Tower Kleber	RES-Hydro	5737.4	6342	100%

¹Distinguish between different types of credits.

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?
NA					

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

Dates may be forecast.

Section 51(2)(e).

Within this section, list the total expenditures incurred during the reporting period to comply with the renewable energy standards. 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 Transfer Cost for 2012	Total ICC for 2012
NA	\$2,623,402

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

Capital Expenditures for 2012
0

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

List the forecasted total expenditures for the remaining plan period. Also, electric providers with an approved or planned renewable energy surcharge (as per Section 45), list the forecasted incremental cost of compliance (ICC) for the remaining plan period.

Forecast of total remaining expenditures for the residual plan period of 2013-2028	Forecast of the ICC for the remaining plan period (2013-2028)
\$173,370,468	\$52,916,307

Total Expenditures: ICC + Transfer Cost

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 2009-2011 retail sales or the 2011 weather normalized retail sales.

Average of 2009-2011 retail sales
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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).

2009: 2,055,200 MWh 2010: 2,193,195 MWh 2011: 2,200,448 MWh Total: 6,448,844 3-year average; 2,149,615

(B) Inventory: List the number of non-expired energy credits available after submittal of the 2012 MIRECS compliance report. These energy credits may have 2010, 2011 and 2012 vintages. Do not include credits within the 2012 compliance sub-account. This number may differ from the inventory figure given in **Section 51(2)(a)** above. List green pricing program, energy optimization and advanced cleaner energy credits separately and only if they are to be used for RPS compliance in a future year.

286,712 - the sum of RECs for 2010, 2011, 2012

(C) 2012 Renewable Energy: List the number of energy credits with a 2012 vintage. Include 2012 vintage energy credits used for compliance in 2012 as well as those 2012 vintage energy credits not yet used for compliance. Again, take into account green pricing program credits and energy optimization or advanced cleaner energy credit substitutions with a 2012 vintage.

List credits from energy generated during 2012 (C)
92,831

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

Estimated Renewable Energy Percentage based on 2012 vintage energy credits (C divided by A)
92,831 / 2,149,615 = .0432

(D) Compliance: List the energy credits used for compliance for the 2012 compliance year. This number should agree with the compliance requirement listed in the 2012 compliance subaccount in MIRECS. Take into account any energy optimization or advanced cleaner energy credit substitutions and limits on their use.

48,319

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

48,319 / 2,149,615 = .0225

Does the “energy credits used for compliance in this reporting 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 2013 generation are included?

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To be used for 2013 Compliance Year

Similar to (A) from Section 51(2)(f) above.

List the sales in MWh based upon the same method selected above. Sales should either be the average of 2010-2012 retail sales or the 2012 weather normalized retail sales. Please show the calculation of this figure (including listing the sales of each year if the three year average method is used).

2010: 2,193,195 MWh 2011: 2,200,448 MWh 2012: 2,176,746 MWh Total: 6,570,389 3 year average: 2,190,130
