

Joint Submittal by the Michigan South Central Power Agency

Renewable Energy Plan Annual Report for Calendar 2012

On Behalf of Its Members; the

Village of Clinton - MPSC Case No. U-16603,

City of Coldwater - MPSC Case No. U-16604,

City of Hillsdale - MSPC Case No. U-16616,

City of Marshall - MPSC Case No. U-16622, and the

Village of Union City - MPSC Case No. 16636

Revised May 2013

- 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)

Village of Clinton U-16603, City of Coldwater U-16604, City of Hillsdale U-16616,
City of Marshall U-16622, Village of Union City U-16636

b. Summary of actions taken during reporting period

The Michigan South Central Power Agency is located in Litchfield Michigan and consists of 5 municipalities (the Village of Clinton, the City of Coldwater, the City of Hillsdale, the City of Marshall, and the Village of Union City). The Agency is committed to a renewable Energy plan and has designed such to meet the renewable energy requirements of its members through a combination of generation, including current and future projects, along with acquiring REC's in the open market. All REC and IREC inventories are held in the Michigan South Central Power Agency's account and transferred to the accounts of respective municipalities listed above for compliance purposes.

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	2,248	214	2,248.405
Built, Co. Owned (post PA 295)			
Contracted (credits only)	9,451 Purch 2009 Year 17,000 Purch 2010 Year		
Contracted (energy and credits)			
Total Credits acquired	28,699	214	2,248.405

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

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

None

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	0		NA
Expired (not in compliance sub-account)	0		NA
Moved to compliance sub-account¹	443 5,288 2,424 3,195 1,517 8,117	0 327 0 0 0 48	Clinton Compliance 2012 Coldwater Compliance 2012 Hillsdale Compliance 2012 Marshall Compliance 2012 Union City Compliance 2012 Coldwater Compliance 2013

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.

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.

Year	Renewable Energy Credits	Incentive Credits	Advanced Cleaner Energy Credits
Vintage 2010	12,033	263	N/A
Vintage 2011	3,086	302	N/A
Vintage 2012	2,094	201	N/A
Vintage 2010**	8,117	48	** held in Coldwater compliance 2013 acct.
Total @ 12/31/12	25,330	814	**Includes holdings in Coldwater's 2013 compliance acct.

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	N/A	N/A
Built, Co. Owned (post PA 295)	N/A	N/A
Contracted (credits only)	N/A	N/A
Contracted (energy and credits)	N/A	N/A
Total Credits acquired	N/A	N/A

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?

N/A

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).

MIRECS	System Name ¹	System Type (RES or ACES)	Nameplate Capacity (MW)	Electricity Generated (MWh)	% of Electricity generated by RE/ACE
GEN 63	City of Marshall Hydroelectric Project No. 6514- #1 Hydro	RES	.175	551.288	100% RE
GEN 65	City of Marshall Hydroelectric Project No. 6514 - #3 Hydro	RES	.144	493.552	100% RE
GEN 67	Riley Dam - Union City #19432-Riley Dam	RES	.418	1203.565	100% RE

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
N/A	N/A	N/A	N/A	N/A

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.

Municipal	System Name ¹	Resource (technology, RE/ACE)		Nameplate Capacity (MW)	Construction start date or acquisition date	Commercial operation date	Owned by electric provider?
Clinton	AMP Hydro 1	RE		0.7	12/6/2007	2014/2015	N
Coldwater	AMP Hydro 1	RE		6.5	12/6/2007	2014/2015	N
Hillsdale	AMP Hydro 1	RE		3.4	12/6/2007	2014/2015	N
Marshall	AMP Hydro 1	RE		2.8	12/6/2007	2014/2015	N

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
N/A	\$7,186

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

Capital Expenditures for 2012
N/A

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 2013-2029	Forecast of the ICC for the remaining plan period (2013-2029)
N/A	N/A

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

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).

Clinton	20,978 + 23,365 + 22,083 = 66,426 / 3 = 22,142
Coldwater	262,153 + 287,989 + 286,266 = 836,408 / 3 = 278,803
Hillsdale	120,697 + 121,437 + 121,371 = 363,505 / 3 = 121,169
Marshall	103,128 + 107,890 + 110,018 = 321,036 / 3 = 107,012
Union City	14,232 + 15,412 + 15,851 = 45,495 / 3 = 15,615
Agency Total	521,188 + 556,093 + 555,589 = 1,632,870 / 3 = 544,290

(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.

Agency Total REC and IREC Inventory	26,144 (includes 8,165 within Coldwater's 2013 compliance acct.)
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(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)

Agency Total Vintage 2012 Credits	2,462 (Agency total includes REC's and IRECS)
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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)
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2,462 / 544,290 (Agency Total) = .45% for Agency
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(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.

Clinton	443
Coldwater	5,615
Hillsdale	2,424
Marshall	3,195
Union City	1,517
Agency Total	13,194

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

443 / 22,142 Clinton	= 2.00%
5,615 / 278,803 Coldwater	= 2.01%
2,424 / 121,169 Hillsdale	= 2.00%
3,195 / 107,012 Marshall	= 2.99%
1,517 / 15,165 Union City	= 10.00%
13,194 / 544,290 (Agency Total)	= 2.42% for Agency

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?

N/A

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).

Clinton	23,365 + 22,083 + 22,851 =	68,299 / 3 =	22,766
Coldwater	287,989 + 286,266 + 319,087 =	893,342 / 3 =	290,781
Hillsdale	121,437 + 121,371 + 118,701 =	361,509 / 3 =	120,503
Marshall	107,890 + 110,018 + 108,940 =	326,848 / 3 =	108,949
Union City	15,412 + 15,851 + 16,131 =	47,394 / 3 =	15,798
Agency Total	556,093 + 555,589 + 585,710 =	1,697,392 / 3 =	565,797