

Joint Submittal by the Michigan South Central Power Agency

Renewable Energy Plan Annual Report for Calendar 2020

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 - MPSC Case No. U-16616,

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

Village of Union City - MPSC Case No. 16636

Revised May 2021

Electric Provider:

Reporting Period: Calendar Year 2020

- Section 51(1) of 2008 PA 295, as amended by 2016 PA 342, 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.
- The purpose of this annual report is to provide information regarding activities that occurred within calendar year 2020, not simply activity regarding energy credits with the vintage of 2020.

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 Coldwater 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 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 the MIRECS report titled: My Credit Transfers using the transfer tabs indicated below and filtering the report by date (only activity occurring in 2020).

Credits From	Renewable Energy Credits	Incentive Credits	MWh Electricity Generated/Acquired
Generated (Intra-Account Transfer, only "Issued" in the Action column)	2020 Vintage: 2,233	2020 Vintage: 212	2,233
Purchased (Inter-Account Transfer, only "Confirm" or "Forward Transfer" in the Action column)			
Menominee PPA	2020 Vintage: 28,934	2020 Vintage: 2,707	28,934
Oconto Falls PPA	2020 Vintage: 22,618	2020 Vintage: 2,113	22,618
Total Credits	53,785	5,032	53,785

"Issued" within the Action column refers to an account holder accepting the generation data after which energy credits are created. "Confirm" within the Action column refers to both the transferee and transferor agreeing to the non-recurring transfer. "Forward Transfer" within the Action column indicates a recurring transfer of which subsequent transfers of credits do not need to be accepted by both parties.

Explain any differences between the data provided and MIRECS reports.

N/A

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	N/A	N/A
Expired (not in compliance sub-account)	N/A	N/A

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 the MIRECS report titled: My Credit Transfer using the transfer tabs indicated below and filtering the report by date (only activity occurring in 2020).

	Advanced Cleaner Energy Credits	MWh Electricity Generated/Acquired
Generated (Intra-Account Transfer, only "Issued" in the Action column)	N/A	N/A
Purchased (Inter-Account Transfer, only "Confirm" or "Forward Transfer" in the Action column)	N/A	N/A
Total Credits acquired	N/A	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	946	100% RE
GEN 65	City of Marshall Hydroelectric Project No. 6514 - #3 Hydro	RES	.144	0.000	100% RE
GEN 75	Riley Dam - Union City #19432-Riley Dam	RES	.418	1,287	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.

MIRECS	System Name	System Type (RES or ACES)	Electricity Purchased (MWh)	Energy Credits Purchased ¹	Allocation Factor and Method
IMP 151	Menominee PPA	RES	28,934.000	28,934	N/A
IMP 212	Oconto Falls PPA	RES	22,618.000	22,618	N/A
N/A	AMP Hydro 1 PPA	RES	61,407.635	0 (see note)	N/A
N/A	AMP Greenup PPA	RES	7,018.858	0 (see note)	N/A
N/A	AMP Meldahl PPA	RES	14,692.113	0 (see note)	N/A

¹Distinguish 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).

AMP Hydro 1 PPA Note:

Please note that although the AMP Hydro 1 REC's are qualified for the MIRECS program under Section 29 (2) (f) and Section 11 (g) (iv) (B) of Public Act 295 of 2008 and under Section 29 (2) (e) and Section 11 (g) (iv) (B) of Public Act 342 of 2016, all RECS that were generated for 2020 were both created and sold into other markets, therefore they are not counted or included in this annual report.

AMP Greenup and Meldahl PPA's Note:

Please note that although the AMP Greenup and AMP Meldahl REC's are qualified for the MIRECS program under Section 29 (2) (e) and Section 11 (g) (iv) (B) of Public Act 342 of 2016, all RECS that were generated for 2020 were both created and sold into other markets, therefore they are not counted or included in this annual report.

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?

¹System 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 2020
\$0

Forecast of total expenditures for the remaining plan period of 2020-2030
N/A

Total Expenditures: ICC + Transfer Cost

Total Transfer Cost for 2020 (if any)
N/A

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

Total ICC for 2020
N/A

Forecast of the ICC for the remaining plan period (2020-2030)	Monthly residential surcharge (\$3 or less)
N/A	N/A

Capital Expenditures for 2020 (if any)
N/A

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

Section 51(2)(f).

Compliance: List the energy credits used for compliance for the 2020 compliance year. This number should agree with the compliance requirement listed in the 2020 compliance subaccount in MIRECS. Take into account any energy optimization or advanced cleaner energy credit substitutions and limits on their use.

Clinton	2,906
Coldwater	60,237
Hillsdale	15,264
Marshall	13,094
Union City	1,943
Agency Total	93,444

Does the “energy credits used for compliance for the 2020 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 2020 generation are included?

N/A

Village of Clinton 2019 Energy Waste Reduction Program Results and 2020 Goals

Program Portfolio	2019 Plan Filing		2019 Revised Goals		2019 Actual		2019 Over/(under)		2020 Plan Filing		2020 Revised Goals	
	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget	Gross First Year kWh Savings	Program Budget
Low Income Services	2,164	\$1,000	2,164	\$1,000	3,346	\$287	1182	(\$713)	2,164	\$1,000	2,164	\$1,000
Efficient Lighting	97,380	\$12,100	97,188	\$12,100	96,652	\$8,072	(536)	(\$4,028)	97,380	\$12,100	96,734	\$12,100
Educational Services	3,246	\$300	3,246	\$300	3,246	\$300	0	(\$300)	3,246	\$300	3,246	\$300
Subtotal - Residential Solutions	102,790	\$13,400	102,598	\$13,400	103,244	\$8,359	646	(\$5,041)	102,790	\$13,400	102,144	\$13,400
Business Efficient Lighting	110,365	\$3,300	107,277	\$3,300	107,294	\$2,191	17	(\$1,109)	110,365	\$3,300	110,349	\$3,300
Educational Services	3,246	\$300	3,246	\$300	3,246	\$300	0	\$0	3,246	\$300	3,246	\$300
Subtotal - Business Solutions	113,611	\$3,600	110,523	\$3,600	110,540	\$2,491	17	(\$1,109)	113,611	\$3,600	113,595	\$3,600
Total Program Portfolio	216,401	\$17,000	213,121	\$17,000	213,783	\$10,850	662	(\$8,150)	216,401	\$17,000	215,739	\$17,000
Program Administration		\$2,000		\$2,000		\$2,000		\$0		\$2,000		\$2,000
Evaluation (EM&V)		\$1,000		\$1,000		\$300		(\$700)		\$1,000		\$1,000
Subtotal - Admin/Evaluation		\$3,000		\$3,000		\$2,300		(\$700)		\$3,000		\$3,000
Projected Annual Totals	216,401	\$20,000	213,121	\$20,000	213,783	\$13,150	662	(\$8,850)	216,401	\$20,000	215,739	\$20,000

Notes and Assumptions:

Low Income Programs

140 CFLs handed out @ 23.9 kWh each =	3346
Cost of CFLs was \$1.731 each X 140 =	\$242.34
Cost of Flyers, bags, delivery (\$1116 X 4%)	\$44.64
Total Cost	\$286.98

MEMD for 2019	
Res. CFLs	23.9 kWh
Bus. CFLs	84.75 kWh

Residential Efficient Lighting

4,044 CFLs handed out @ 23.0 kWh each =	96,652
Cost of CFLs was \$1.731 each X 4044 =	\$7,000
Cost of Flyers, bags, delivery (\$1116 X 96%)	\$1,071
Total Cost	\$8,072

Applied LI overage of 646 kWh to Res goal for 2020

Residential Education

Assumed staff assisted and educated customers on programs and how to save energy

Business Efficient Lighting

1266 CFLs handed out @ 84.75 kWh each	107,294
Cost of CFLs was \$1.73 each x 1266	\$2,191

Business Education

Assumed staff assisted and educated customers on programs and how to save energy

Program Administration

Assumed all of the budget was spent on staff time to order lights, coordinate distribution and track results

Program Evaluation

Payment to local police officer for \$300 to verify the CFLs were distributed