

THUMB ELECTRIC COOPERATIVE



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April 28, 2023

Lisa Felice
Executive Secretary
Michigan Public Service Commission
PO Box 30221
Lansing, MI 48909-7721

Re: Case No. U-17801
Thumb Electric Cooperative
2022 Renewable Energy Annual Report

Dear Ms. Felice:

Enclosed, for electronic filing, please find our Renewable Energy Annual Report on behalf of Thumb Electric Cooperative, in the above-referenced matter.

If you have any questions, please contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Brad Essenmacher".

Brad Essenmacher
General Manager

Renewable Energy Annual Report

Electric Provider: **THUMB ELECTRIC COOPERATIVE**

Reporting Period: Calendar Year 2022

- 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.
- The purpose of this annual report is to provide information regarding activities that occurred within calendar year 2022.
- 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-17801, U-17812 and U-17639

b. Summary of actions taken during reporting period

TEC ACQUIRED 27,164 RECS and 0 IRECS FOR A TOTAL OF 27,164. ALL RECS WERE TRANSFERRED FROM CMS ENERGY'S MIRECS ACCOUNT. CMS ENERGY IS OUR WHOLESALE ENERGY PROVIDER.

Section 51(2)(a).

Within this section, list the combined total number of vintage 2022 renewable energy credits and incentive credits generated, and renewable energy credits purchased by vintage during the reporting period, including those credits transferred from a 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 2022**).

Credits	Combined Renewable Energy Credits and Incentive Credits
Generated (Intra-Account Transfer, only "Issued" in the Action column)	NA
Purchased (Inter-Account Transfer, only "Confirm" or "Forward Transfer" in the Action column)	None for 2022. Only vintage 2018 RECs were acquired for reporting year 2022.
Total Credits	

"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.

NONE

Within this section, list the type of and number of energy credits sold, traded or otherwise transferred during the reporting period (**only activity occurring in 2022**).

	Combined Renewable Energy Credits and Incentive Credits
Sold, traded or otherwise transferred	All RECs secured were vintage 2018.

To get a count of energy credits that have been sold, traded or otherwise transferred data may be found in the MIRECS report titled: My credit transfers; inter-account transfer; filter by 1) year (2022) 2) transferor (the company) and 3) action (“confirm”).

Section 51(2)(c).

Within this section, list each renewable energy system (RES) 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).

System Name¹	System Type (RES)	Nameplate Capacity (MW)	Electricity Generated (MWh)	% of Electricity generated by RE/ACE
NA	NA	NA	NA	NA
NA	NA	NA	NA	NA
NA	NA	NA	NA	NA

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) 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)	Electricity Purchased (MWh)	Energy Credits Purchased¹	Allocation Factor and Method
NA	NA	NA	NA	NA
NA	NA	NA	NA	NA
NA	NA	NA	NA	NA

¹Distinguish between different types of credits (REC).

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.

System Name ¹	Resource (technology, RE)	Nameplate Capacity (MW)	Construction start date or acquisition date	Commercial operation date	Owned by electric provider?
NA		NA	NA	NA	NA
NA		NA	NA	NA	NA
NA		NA	NA	NA	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 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 2022
\$0

Forecast of total expenditures for the remaining plan period of 2022-2029
\$200,000

Total Expenditures: ICC + Transfer Cost

Total Transfer Cost for 2022 (if any)
\$0

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

Total ICC for 2022
\$0

Forecast of the ICC for the remaining plan period (2022-2029)	Monthly residential surcharge (\$3 or less)
\$200,000	\$0

Capital Expenditures for 2022 (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 2019-2021 retail sales or the 2021 weather normalized retail sales.

Average of 2019-2021 retail sales.

The method chosen should be consistent with the method approved in the initial plan case from 2019. 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).

2019-172,848 MWh, 2020-177,684 MWh, 2021-192,746 MWh = AVERAGE 181,093 MWh

(B) Compliance: List the energy credits used for compliance for the 2022 compliance year. This number should agree with the compliance requirement listed in the 2022 compliance subaccount in MIRECS. Take into account any energy waste reduction substitutions and limits on their use.

27,164 RECs AND IRECS

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

15%