MPSC

MICHIGAN PUBLIC SERVICE COMMISSION

Status of Electric Competition in Michigan

In compliance with Public Act 141 of 2000

February 1, 2023

Dan Scripps, Chair
Tremaine Phillips, Commissioner
Katherine Peretick, Commissioner

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LICENSING AND REGULATORY AFFAIRS

Contents

Introduction 1

Status of Competition for Electric Supply 2

- Overview 2
- Michigan's Electric Choice Program 2
- 2016 Energy Laws 3
- Alternative Electric Suppliers 4
- Load Served Through Electric Customer Choice Program 4
  - Consumers Energy Electric Customer Choice Program 4
  - DTE Electric Company Customer Choice Program 5
  - Upper Peninsula Power Company (UPPCo) Electric Customer Choice Program 5
  - Upper Michigan Energy Resources Corporation (UMERC) Electric Customer Choice Program 6
  - Cloverland Electric Cooperative Electric Customer Choice Program 7
  - Indiana Michigan Power Company Electric Customer Choice Program 7
- Benchmarking Michigan's Electric Prices 9
  - Residential Rates 9
  - Commercial Rates 13
  - Industrial Rates 15

Commission Action Related to Electric Choice and Customer Protections 16

Commission Action on Customer Education 17

Recommendation for Legislation 17

Appendix 1 18

Appendix 2 31

Appendix 3 33

Introduction

The Customer Choice and Electricity Reliability Act (Public Act 141 of 2000, referred to throughout as Act 141) requires the Michigan Public Service Commission (Commission or MPSC) to file a report with the Governor and the Legislature by February 1 each year. This report represents the 19th year of electric choice in Michigan and includes a discussion of the following topics, pursuant to MCL 460.10u:

a. The status of competition for the supplying of electricity in Michigan.

b. Recommendations for legislation, if any.

c. Actions taken by the Commission to implement measures necessary to protect consumers from unfair or deceptive business practices by utilities, alternative electric suppliers, and other market participants.

d. Information regarding consumer education programs approved by the Commission to inform consumers of all relevant information regarding the purchase of electricity and related services from alternative electric suppliers.

An important goal of Act 141 is to have competition within the electric industry by offering Michigan customers the opportunity to purchase electric generation services from their incumbent utility or an Alternative Electric Supplier (AES). The Commission does not regulate the prices charged by an AES for its services. Customers may choose between an unregulated AES rate or a regulated utility rate.

Public Act 286 of 2008 (Act 286) was enacted on October 6, 2008, and amended Act 141. Section 10a(1)(a) of Act 286, MCL 460.10a, provides that no more than 10 percent of an electric utility's average weather-adjusted retail sales for the preceding calendar year may take service from an alternative electric supplier at any time[1]. On December 21, 2016, Public Act 341 (Act 341) of 2016 was signed and became effective on April 20, 2017. Act 341 amended Act 286. The Commission outlined the specific procedures pertaining to the implementation of the 10 percent cap and established a cap tracking system that utilities are required to make available online[2].

The electric choice programs for Consumers Energy Company, Upper Michigan Energy Resource Corporation, Upper Peninsula Power Company, Indiana Michigan Power and DTE Electric Company were fully subscribed at the 10 percent cap throughout the year and there continues to be approximately 6,213 customers statewide in the queue to participate in the choice program if space becomes available.

To date, Michigan remains one of 20 states that had full or limited restructuring of the competitive electric market. Benchmark information comparing Michigan's

[1] With the exception of Section 10a(1)(d) of Act 286 which excludes iron ore mining or processing facilities.

[2] Order dated April 28, 2018 in Case No. U-15801.

electric retail rates to the 20 restructured states, Midwest states, and the national average can be found starting on page 11.

In 2022, the Commission issued multiple orders that adhere to the established framework for Michigan's electric customer choice programs and implement the provisions of Public Act 141 of 2000, Public Acts 286 and 295 of 2008, and Public Act 341 of 2016.

Status of Competition for Electric Supply

Overview

Retail Open Access (referred to throughout as "ROA", "electric customer choice" or "electric choice") for all customers of Michigan investor-owned electric utilities took effect on January 1, 2002. AESs currently serve electric choice customers in the Consumers Energy Company (Consumers Energy), DTE Electric Company (DTE Electric), Upper Peninsula Power Company (UPPCo), Upper Michigan Energy Resources Corporation (UMERC), Cloverland Electric Cooperative (Cloverland), and Indiana Michigan Power Company (I&M) territories.

Michigan is one of 20 jurisdictions that had full or limited restructuring of retail electric markets in 2022[3]. In Michigan, Public Act 286 caps electric choice participation at 10 percent of an electric utility's average weather-adjusted retail sales for the preceding year. The 10 percent cap is reset annually to reflect the average weather-adjusted retail sales for the preceding year.

Specific information pertaining to the status of electric choice participation for each utility can be found at their respective websites.[4]

Michigan's Electric Choice Program

Electric customer choice is available to all customers of regulated electric utilities, excluding members of electric cooperatives with loads of less than one megawatt (MW)[5]. Michigan's current retail electric market maintains regulation of most utility generation and distribution while allowing for competitive energy supply.

As of December 2022, there were approximately 5,760 customers participating in the electric choice programs (compared to 5,939 in 2021). This represents approximately 2,138 MW of electric demand, which is a decrease of about 37 MW from 2021. As of December 2022, approximately 6,213 customers remain in the queue, an increase from 5,962 in 2021. There was a decrease in the total electric choice load in 2022 and electric choice participation remained around 10 percent for each utility.

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[3] Figure 1 (Appendix 1).

[4] https://www.michigan.gov/mpsc/regulatory/electricity/customer-choice

[5] MCL 460.10x and MCL 460.10y outline different requirements for implementation for customer choice for cooperatively owned and municipal electric utilities. MCL 460.10x allows any retail customer of a rural electric cooperative with a peak of 1 megawatt or above to select an alternative electric supplier. MCL 460.10y provides that the governing body of a municipally owned utility determines whether it will permit choice programs in its service territory.

2016 Energy Laws

Public Acts 341 and 342 were passed on December 15, 2016, and signed by Governor Rick Snyder on December 21, 2016. Act 341 updates Michigan's energy laws relating to utility rate cases, electric customer choice, certificate of necessity, and electric capacity resource adequacy, and establishes an integrated resource planning process. Act 341 amended Public Act 3 of 1939 and Public Act 286 of 2008. On September 29, 2009, the Commission adopted procedures, regarding the allocation of the amount of load to be served by AESs. The Commission approved changes to these procedures pursuant to Act 341, which are attached as Appendix A to the April 28, 2017, order in Case No. U-15801[6].

Pursuant to MCL 460.10a(1)(c), the Commission issued orders adjusting the choice caps to zero for any utility serving fewer than 200,000 Michigan customers and that did not have any load served by an AES during the four-year period of April 20, 2013, to April 20, 2017. These orders were issued on July 12, 2017 for 12 utilities[7] and directed that the cap for each utility automatically be reset to 10 percent on February 1, 2019. On February 1, 2019, I&M's cap was reset to 10 percent and the utility began enrolling customers in its electric choice program.

Additionally, every Michigan licensed AES is subject to the capacity demonstration and state reliability mechanism (SRM) provisions outlined in Section 6w of Act 341. Section 6w requires all electric providers, including AESs, to demonstrate to the MPSC that they have enough resources to serve the anticipated needs of their customers four years forward. If an AES cannot or chooses not to arrange generating capacity to meet the new requirement, all or a portion of its load would be subject to an SRM capacity charge. The SRM capacity charge is set by the MPSC and is paid to the utility in exchange for the utility serving as the provider of last resort for capacity service.

In 2022, the MPSC completed its fifth round of capacity demonstrations. On February 9, 2022, Wolverine Power Supply Cooperative filed its demonstration on behalf of all its members including AES Spartan Renewable Energy, Inc (Spartan). Based on the filing and follow up discussions, the Commission directed Spartan to show cause why it should not be found in violation of statutory capacity demonstration obligations, and whether and how state reliability mechanism capacity charges should be assessed in Case No. U-21250. The issue, spurred by Spartan not renewing an existing contract with an undisclosed 9.4 MW customer, was resolved when the incumbent electric utility in Spartan's territory, Cloverland Electric Cooperative, filed an updated capacity demonstration, which the Commission accepted on December 9, 2022. Cloverland's updated filing indicates

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[6] Order dated April 28, 2017 in Case No.U-15801

[7] These utilities include: Alger Delta Cooperative Electric Association (U-18372), Alpena Power Company (U- 16086), Bayfield Electric Cooperative (U-18373), Cherryland Electric Cooperative (U-18374), Great Lakes Energy Cooperative (U-18376), Indiana Michigan Power Company (U-16090), HomeWorks Tri-County Electric Cooperative (U-18377), Midwest Energy Cooperative (U-18378), Northern States Power Company (U-16091), Thumb Electric Cooperative (U-18379), Presque Isle Electric & Gas Co-Op (U-18388), Ontonagon County Rural Electrification Association (U-18389).

alternative capacity arrangements associated with the former Spartan customer, removing the need to implement the state reliability mechanism capacity charge.

Alternative Electric Suppliers

There were 21 licensed AESs with eight of those actively serving customers as of December 2022[8]. The Commission revoked one AES license during 2022, Liberty Power Delaware LLC in Case No. U-15140.

Load Served Through Electric Customer Choice Program

Commercial and industrial customers accounted for almost all the participation in the electric choice programs during 2022. Typical choice participants are large industrial manufacturers and mid-size commercial customers, including retailers, restaurants, healthcare facilities, school systems, and other service providers. The number of residential choice customers participating in the electric choice program is negligible.

Consumers Energy Electric Customer Choice Program

The number of customers and the electric demand served by each AES in the Consumers Energy service territory at the end of each year is shown in Figure 2 (Appendix 1). The electric choice load served in the Consumers Energy service territory at year-end 2022 totaled 701 MW. This compares to 709 MW in 2021. There were 938 customers served by AESs at year-end 2022 compared to 963 in 2021[9].

Additional information depicting trends in the Consumers Energy electric customer choice program is included in Appendix 1. Figure 3) shows the number of customers participating and the load served on a monthly basis from June 2021 through December 2022.

Below is a summary of cap related data for Consumers Energy for 2020 – 2022. To date, Consumers Energy is fully subscribed at the 10 percent cap.

Consumers Energy			
	2020	**2021**	**2022**
Weather-Adjusted Retail Sales	36,473,374 MWh	34,763,615 MWh	35,895,190 MWh
Participation Level	3,753,969 MWh	3,565,547 MWh	3,569,719 MWh
Participation Percent	10.29%	10.26%	9.94%
Customers in Service	976	989	938
Customers in Queue	3,481	3,394	3,295
Total Load in Queue	5,542,678 MWh	4,244,107 MWh	4,213,208
Participation Percent w/o Cap	*25.49%*	*22.47%*	*21.68%*

[8] See Figure 2, Figure 4, Figure 6, Figure 8, Figure 10 (Appendix 1).
[9] Figure 2 (Appendix 1).

Consumers Energy experienced a decrease in the number of customers in the queue, the load in the queue, as well as the participation percent of load served from 2021 to 2022, Hypothetically, if the cap did not exist, choice participation would be approximately 22 percent in Consumers Energy's service territory.

DTE Electric Company Customer Choice Program

The number of customers and the electric demand served by each AES in the DTE Electric service territory at the end of the year is shown in Figure 4 (Appendix 1). The electric choice load served in the DTE Electric service territory at year-end 2022 totaled 1,279 MW compared to 1,319 MW in 2021. The number of customers served by AESs totaled 4,624 at year-end 2022 compared to 4,746 in 2021[10].

Additional information depicting trends in the DTE Electric's electric customer choice program is included in Appendix 1. Figure 5 shows the number of customers participating and the load served on a monthly basis from July 2021 through December 2022.

Below is a summary of cap related data for DTE Electric for 2020 – 2022. To date, DTE Electric is fully subscribed at the 10 percent cap.

DTE Electric Company			
	2020	2021	2022
Weather-Adjusted Retail	46,222,336 MWh	44,002,518 MWh	45,441,151 MWh
Participation Level	4,521,578 MWh	4,389,383 MWh	4,465,551 MWh
Participation Percent	9.78%	9.98%	9.83%
Customers in Service	4,551	4,746	4,624
Customers in Queue	2,856	2,526	2,884
Total Load in Queue	3,623,334 MWh	2,822,146 MWh	2,749,599 MWh
Participation Percent w/o	*17.62%*	*16.39%*	*15.89%*

DTE Electric experienced an increase in the number of customers and a decrease in the load in the queue from 2021 to 2022. DTE Electric also experienced a decrease in the participation percent of its load served by AESs. Hypothetically, if the cap did not exist, choice participation would be approximately 16 percent in DTE Electric's service territory.

Upper Peninsula Power Company (UPPCo) Electric Customer Choice Program

The number of customers and the electric demand served by each AES in the UPPCo service territory at the end of the year is shown in Figure 6 (Appendix 1). The electric choice load served in the UPPCo service territory at year-end 2022 totaled

[10] Figure 4 (Appendix 1).

14.1 MW compared to 14.761 MW in 2021. The number of customers served decreased at year-end 2022 to 71 compared to 73 in 2021[11].

Additional information depicting trends in the UPPCo electric customer choice program is included in Appendix 1. Figure 7 shows the number of customers participating and the load served on a monthly basis from July 2020 through December 2022.

Below is a summary of cap related data for UPPCo for 2020 – 2022. The current level of choice participation is approximately 10.89 percent. Hypothetically, if the cap did not exist, choice participation would be approximately 13.36 percent in UPPCo's service territory.

Upper Peninsula Power Company			
	2020	2021	2022
Weather-Adjusted Retail Sales	833,168 MWh	835,036 MWh	741,288 MWh
Participation Level	71,609 MWh	71,609 MWh	80,703 MWh
Participation Percent	8.59%	8.58%	10.89%
Customers in Service	53	73	71
Customers in Queue	63	25	17
Total Load in Queue	41,472 MWh	22,878 MWh	18,309 MWh
Participation Percent w/o Cap	*13.57%*	*11.32%*	*13.36%*

Upper Michigan Energy Resources Corporation (UMERC) Electric Customer Choice Program

On December 9, 2016, the Commission approved a settlement agreement in Case No. U-18061[12] that permitted the creation of a new Michigan-only jurisdictional utility in the Upper Peninsula. UMERC was established on January 1, 2017 as a new Michigan-only jurisdictional utility in the Upper Peninsula. Former WEPCo and WPSC customers are now being served by UMERC.

The number of customers and electric demand served by each AES in the UMERC service territory at the end of the year is shown in Figure 8 (Appendix 1). The electric choice load served in the UMERC service territory at year-end 2022 totaled 80.5 MW compared to 69 MW in 2021. The number of customers served decreased from 82 at 2021 year-end to 79 at 2022 year-end.[13]

Additional information depicting trends in the UMERC electric customer choice program is included in Appendix 1. Figure 9 shows the number of customers participating and the load served on a monthly basis from July 2021 through December 2022.

[11] Figure 6 (Appendix 1).
[12] See Case No. U-18061.
[13] Figure 8 (Appendix 1).

Below is a summary of cap related data for UMERC for 2020 – 2022. The Tilden Mining Company (Tilden) load was transferred from WEPCo to UMERC in the first quarter of 2019, which is reflected in the Weather-Adjusted Retail Sales.

Note: MCL 460.10a(1)(f) provides that any customer operating an iron ore mining facility, iron ore processing facility, or both, located in the Upper Peninsula of this state shall be permitted to purchase all or any portion of its electricity from an alternative electric supplier, regardless of whether the sales exceed 10% of the serving electric utility's average weather-adjusted retail sales. Because of this, the current level of choice participation is approximately 12.49 percent in UMERC's service territory.

Upper Michigan Energy Resources Corporation			
	2020	2021	2022
Weather-Adjusted Retail Sales	2,237,922 MWh	1,998,123 MWh	2,197,650 MWh
Participation Level	275,916 MWh	270,019 MWh	274,388 MWh
Participation Percent	12.33%	13.51%	12.49%
Customers in Service	83	82	79
Customers in Queue	1	1	1
Total Load in Queue	106,250 MWh	128,923 MWh	102,562 MWh
Participation Percent w/o Cap	*17.08%*	*19.97%*	*17.15%*

Hypothetically, if the cap did not exist, choice participation would be approximately 20 percent in UMERC's service territory.

Cloverland Electric Cooperative Electric Customer Choice Program

Beginning in December 2016, Cloverland had one customer taking electric choice. The electric choice load served in the Cloverland service territory at year-end 2022 totaled 9.07 MW, as shown in Appendix 1, Figure 10.

Below is a summary of cap related data for Cloverland Electric for 2020 – 2022.

Cloverland Electric Cooperative			
	2020	2021	2022
Weather-Adjusted Retail Sales	715,832 MWh	734,683 MWh	772,115 MWh
Participation Level	68,978 MWh	73,468 MWh	75,494 MWh
Participation Percent	9.63%	10.0%	9.78%
Customers in Service	1	1	1
Customers in Queue	0	0	0
Total Load in Queue	0 MWh	0 MWh	0 MWh
Participation Percent w/o Cap	*9.63%*	*10.0%*	*9.78%*

Indiana Michigan Power Company Electric Customer Choice Program

The number of customers and the electric demand served by each AES in the I&M service territory at the end of the year is shown in Figure 12 (Appendix 1). The electric

choice load served in the I&M service territory decreased from 55.1 MW for year-end 2021 to 54.58 MW for year-end 2022. The number of customers served by AESs also decreased from 48 at year-end 2021 to 47 at year-end 2022[14].

Additional information depicting trends in I&M's electric customer choice program is included in Appendix 1. Figure 13 shows the number of customers participating and the load served on a monthly basis from January 2022 through December 2022.

Below is a summary of cap related data for I&M for 2020-2022. To date, I&M is fully subscribed at the 10 percent cap.

Indiana Michigan Power Company			
	2020	2021	2022
Weather-Adjusted Retail Sales	2,737,437 MWh	2,708,477 MWh	2,718,870 MWh
Participation Level	279,602 MWh	265,815 MWh	283,957 MWh
Participation Percent	10.21%	9.81%	10.44%
Customers in Service	41	48	47
Customers in Queue	4	16	16
Total Load in Queue	13,486 MWh	26,817 MWh	24,363 MWh
Participation Percent w/o Cap	*10.71%*	*10.80%*	*11.34%*

Hypothetically, if the cap did not exist, choice participation would be approximately 11 percent in I&M's service territory.

[14] Figure 12 (Appendix 1).

Benchmarking Michigan's Electric Prices[15]

This report provides benchmark data that compares Michigan's electric prices to those of other jurisdictions based on customer class. The data shown in the following figures for 2022 reflects January through September 2022.

Residential Rates

The figure below reflects the 2022 average residential retail rates. In 2022, Michigan's average residential retail rates ranked seventh highest among the 20 jurisdictions with some type of restructured market at $0.1771/kWh.

Average Residential Retail Price, 2022

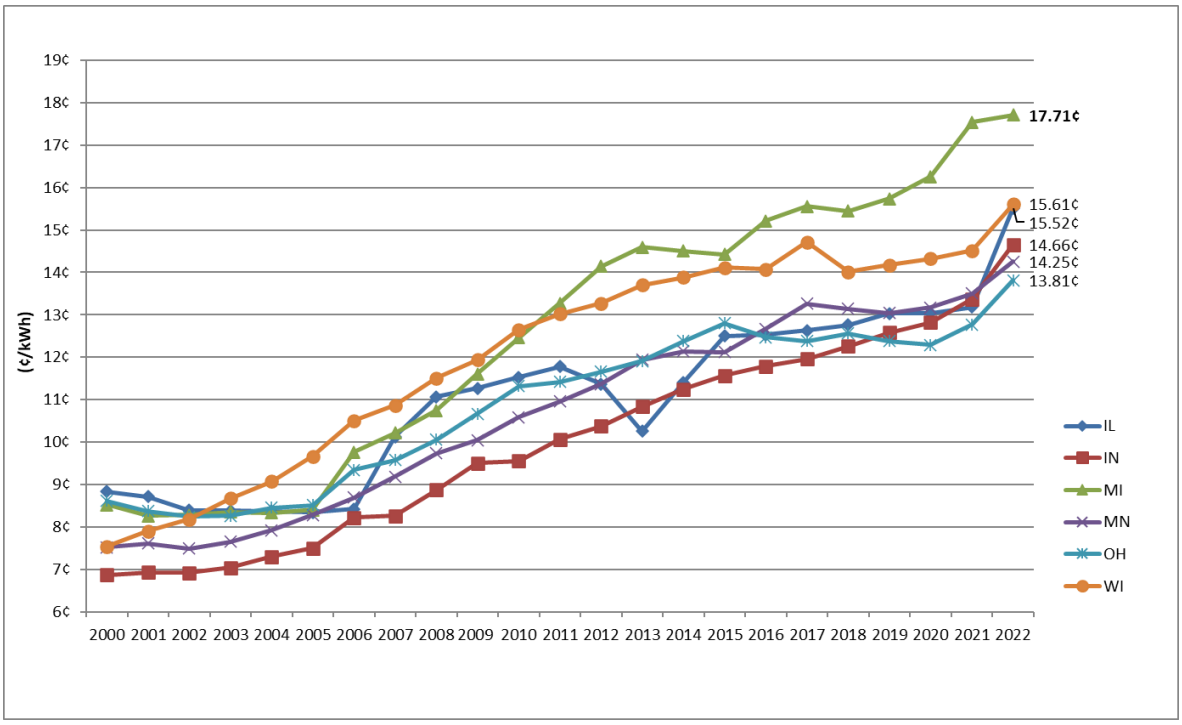
Source: Form EIA-861M (formerly EIA-826) detailed data (https://www.eia.gov/electricity/data/eia861m/). Current and Historical Monthly Retail Sales, Revenues, and Average Retail Price by State and By Sector (Form EIA-826). 2022.*

*2022 data is only through September and may change.

[15] Benchmarking data is sourced from the U.S. Energy Information Administration (EIA). EIA's data may include some minor inconsistencies and is subject to change retroactively.

The figure below reflects the average residential retail rates for neighboring Midwest states from 2000 through 2022. In 2022, Michigan's average residential retail rates ranked the highest among six Midwest states at $0.1771/kWh. Prices are based on actual reported statewide utility sales and revenues for each year and are not adjusted for inflation.

Average Residential Retail Rates for Midwest 2001-2022*

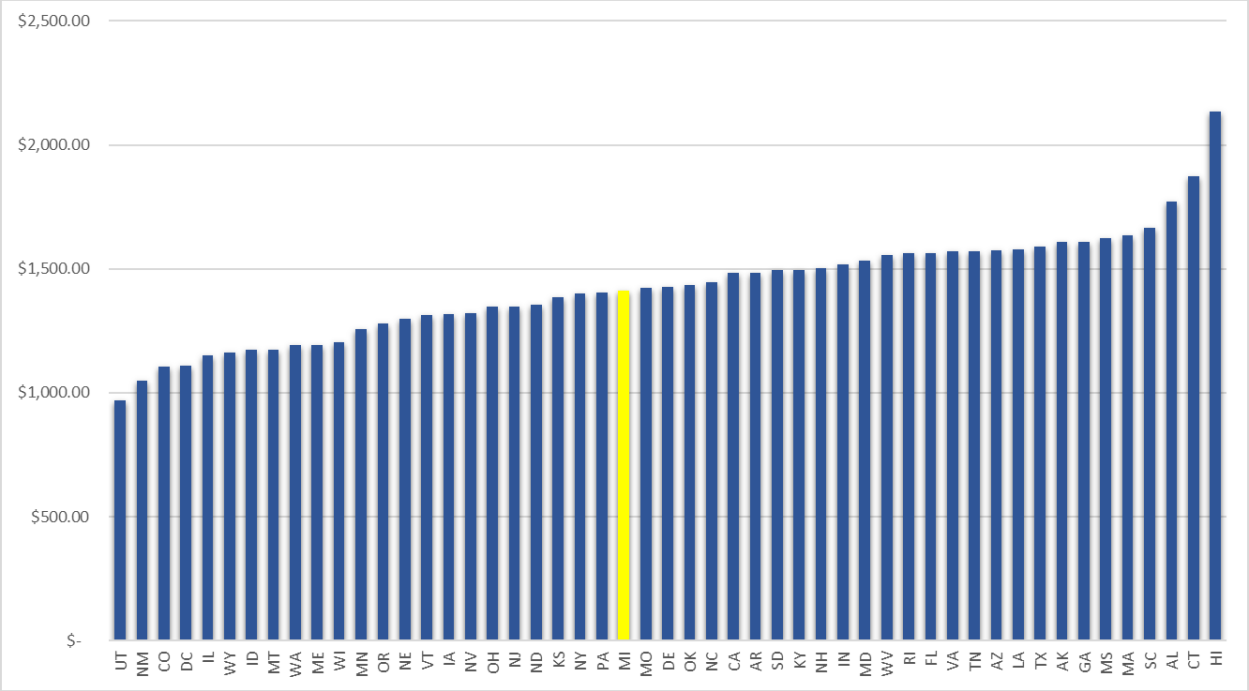


Source: Form EIA-861M (formerly EIA-826) detailed data (https://www.eia.gov/electricity/data/eia861m/). Current and Historical Monthly Retail Sales, Revenues, and Average Retail Price by State and By Sector (Form EIA-826). 2022.*

*2022 data is only through September and may change.

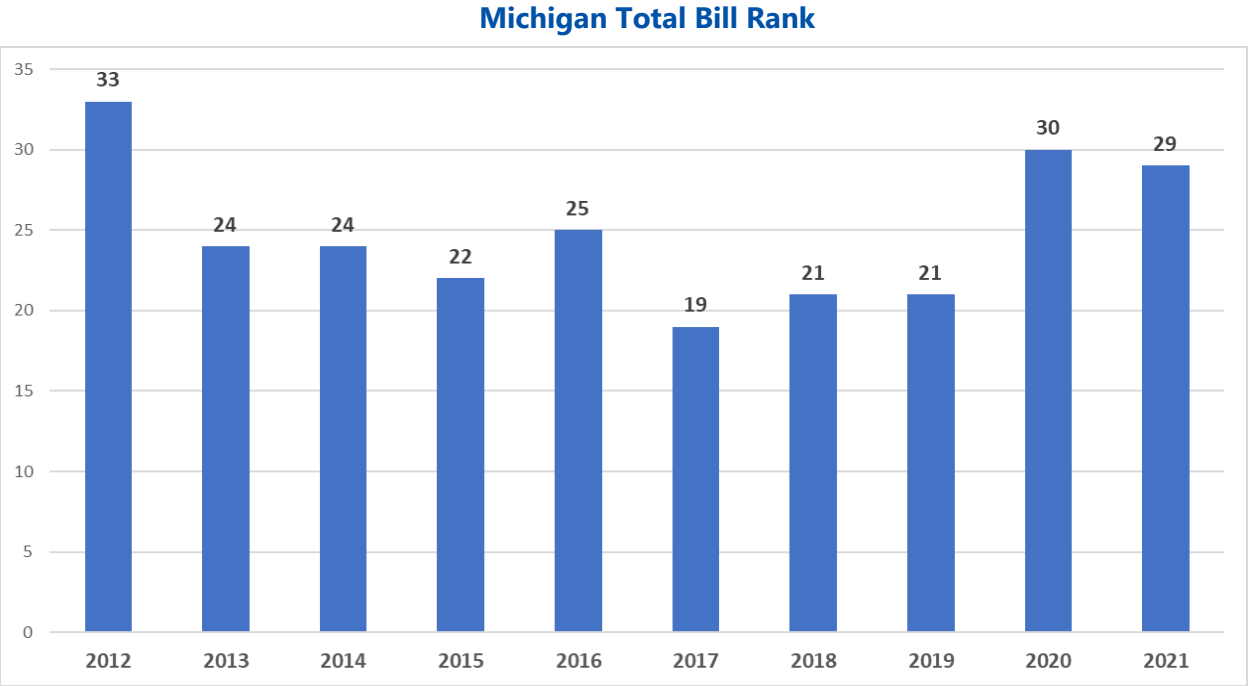
The figure below reflects combined average residential electric and natural gas bills. While average rates are important, the actual amount paid by residential customers in bills for electric and natural gas service provides a sense of the impact of energy costs on Michigan residents relative to customers in other states. Utility services are typically billed based on usage per unit (e.g., one kilowatt-hour of electricity), so states with higher energy usage have more unit sales over which to recover energy costs and may end up with lower average rates (total revenues divided by total sales) as a result. Michigan ranks below the national average in this regard.

2021 Average Residential Electric and Natural Gas Bill



Source: https://www.eia.gov - Data through 2021

The figure below reflects Michigan's combined average residential electric and natural gas bill rankings (from lowest to highest) from 2012 through 2021 compared to all other states. Michigan's residential bills are 29th lowest among other states.



Source: https://www.eia.gov - Data through 2021

Commercial Rates

The figures below reflect the 2022 average commercial retail rates. In 2022, Michigan's commercial average retail rates ranked ninth highest of the jurisdictions with some type of restructured market at $0.1243/kWh.

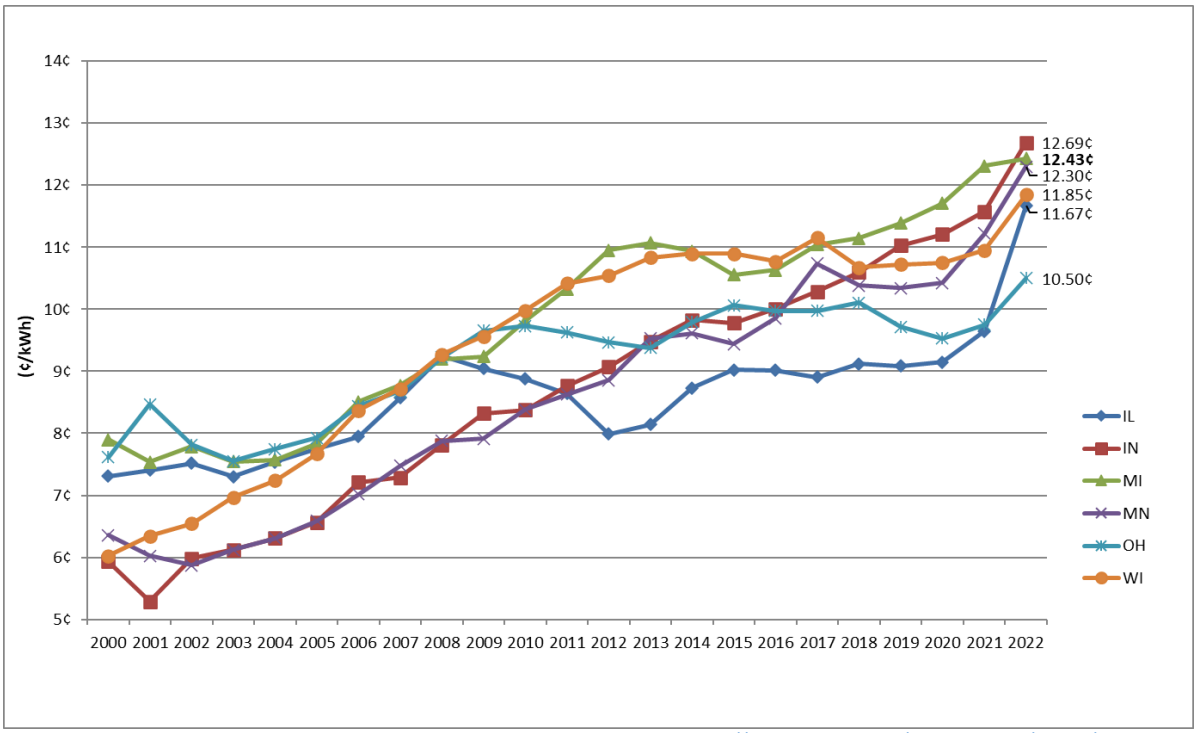
Average Commercial Retail Price, 2022

Source: Form EIA-861M (formerly EIA-826) detailed data (https://www.eia.gov/electricity/data/eia861m/). Current and Historical Monthly Retail Sales, Revenues, and Average Retail Price by State and By Sector (Form EIA-826). 2022.*

*2022 data is only through September and may change.

The figure below reflects the average commercial retail rates for neighboring Midwest states from 2000 through 2022. In 2022, Michigan's average commercial retail rates ranked the second highest among six Midwest states at $0.1243/kWh. Prices are based on actual reported statewide utility sales and revenues for each year and are not adjusted for inflation.

Average Commercial Retail Rates for Midwest 2000-2022*



Source: Form EIA-861M (formerly EIA-826) detailed data (https://www.eia.gov/electricity/data/eia861m/). Current and Historical Monthly Retail Sales, Revenues, and Average Retail Price by State and By Sector (Form EIA-826). 2022.*

*2022 data is only through September and may change.

Industrial Rates

The figure below reflects the 2022 average industrial retail rates. In 2022, Michigan's industrial retail rates ranked eleventh highest among jurisdictions with some type of restructured market at $0.0833/kWh.

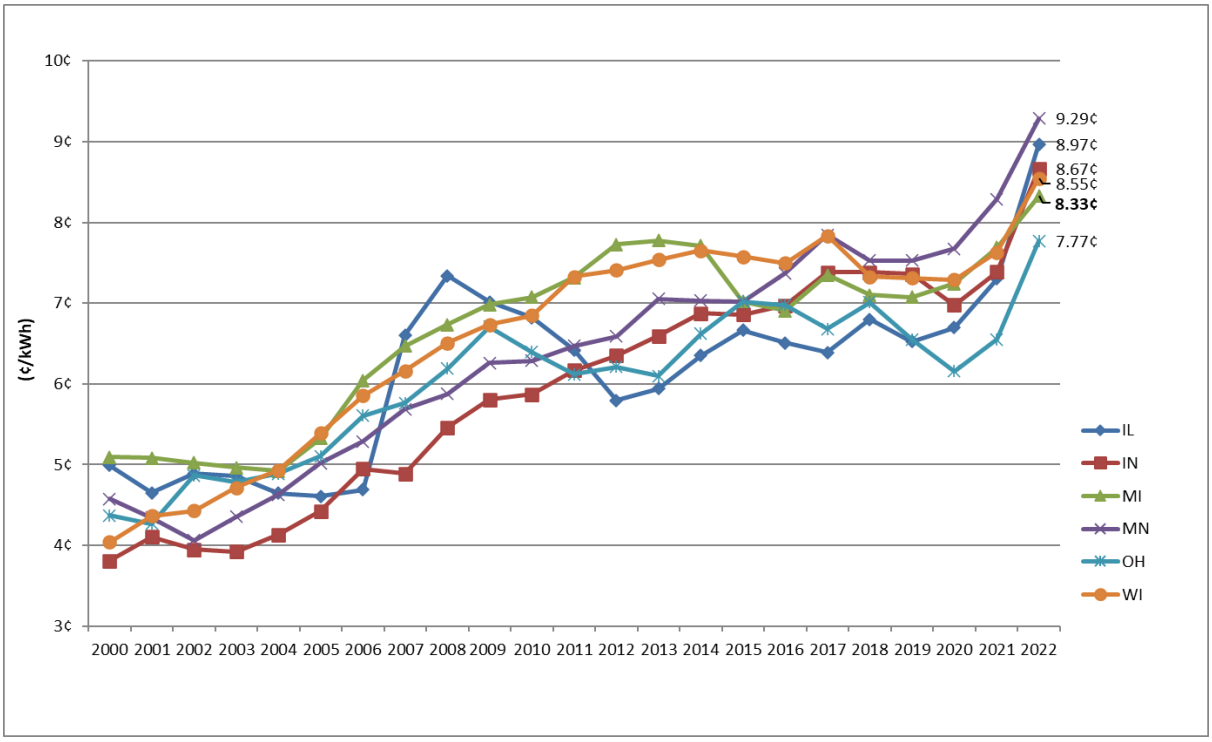
Average Industrial Retail Price, 2022

Source: Form EIA-861M (formerly EIA-826) detailed data (https://www.eia.gov/electricity/data/eia861m/). Current and Historical Monthly Retail Sales, Revenues, and Average Retail Price by State and By Sector (Form EIA-826). 2022.*

*2022 data is only through September and may change

The figure below reflects the average industrial retail rates for the neighboring Midwest states from 2000 through 2022. In 2022, Michigan's average industrial retail rates ranked the second lowest among the six Midwest states at $0.0833/kWh. Prices are based on actual reported statewide utility sales and revenues for each year and are not adjusted for inflation.

Average Industrial Retail Rates for Mi Average Industrial Retail Rates for Midwest 2000-



2022*

Source: Form EIA-861M (formerly EIA-826) detailed data (https://www.eia.gov/electricity/data/eia861m/). Current and Historical Monthly Retail Sales, Revenues, and Average Retail Price by State and By Sector (Form EIA-826). 2022.*

*2022 data is only through September and may change.

Commission Action Related to Electric Choice and Customer Protections

The following orders further supported and implemented the framework for Michigan's electric customer choice programs, the provisions of Act 141, and the amendments of Act 286, Act 295 and Act 341[16]. Throughout 2022 the Commission issued the following orders in relation to Electric Customer Choice:

[16] Commission orders are available on the Commission website at https://mi-psc.force.com/s/

- Three orders relating to capacity demonstration requirements provided for in Act 341;
- Two orders setting state reliability mechanism capacity rates that may be applicable to retail open access load if AES capacity demonstration requirements are not met by AESs serving in Michigan;
- Two orders rescinding an AES license and closing a Renewable Energy Plan

See **Appendix 2** for a complete list and further detail on these orders.

Commission Action on Customer Education

Due to the limit on participation, no licensed AESs are currently marketing or enrolling residential customers. Because of this, there is no current customer education campaign by the MPSC. The MPSC does have a dedicated webpage[17] for consumer information, which includes a Consumer Tip page regarding Michigan's Electric Choice program.

Recommendation for Legislation

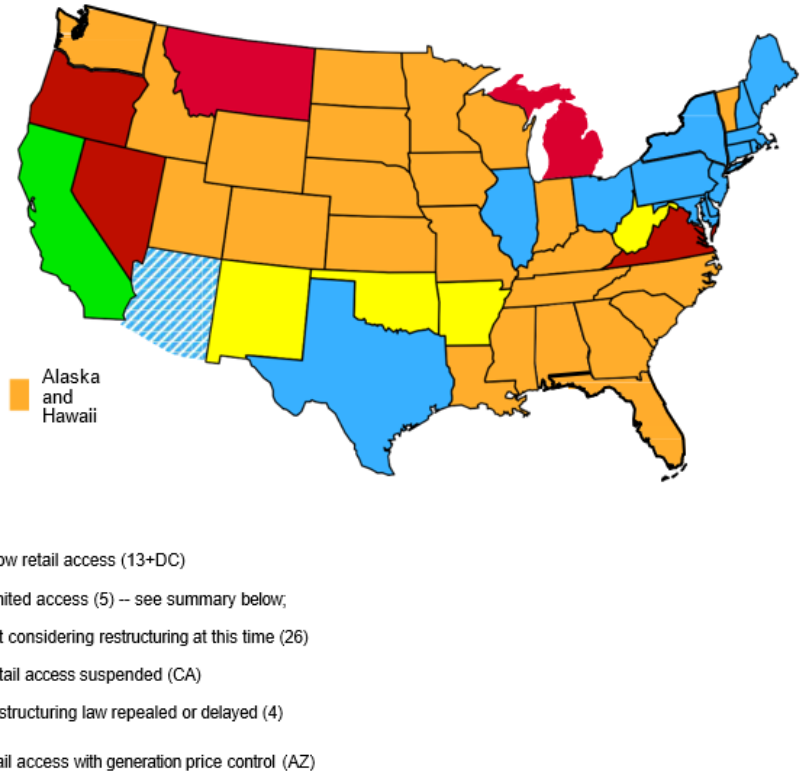
The Commission is continually implementing the provisions outlined in PA 341 and has no recommendations for legislation at this time. Throughout 2022, the Commission continued to engage with stakeholders regarding the resource adequacy and state reliability mechanism provisions within the 2016 energy law[18]. The Commission will continue to closely monitor the impact of the implementation of the 2016 energy law on energy providers and customers in Michigan. Although the Commission does not recommend any legislative changes at this time, the Commission stands ready to assist the Legislature for any reason.

[17] https://www.michigan.gov/mpsc/0,9535,7-395-93308_93325_93423_93501_93509---,00.html

[18] See https://www.michigan.gov/mpsc/0,4639,7-159-80741_80743-411741--,00.html and http://www.michigan.gov/mpsc/0,4639,7-159-80741_80743-406252--,00.html

Appendix 1

Figure 1



MI: alternative suppliers limited to maximum of 10% of electric utility's retail sales
MT: Retail access repealed for customers < 5 MW and for all customers that choose utility service
NV: retail access limited to large customers > or = 1 MW, with permission of the PUC
OR: nonresidential consumers of PGE and Pacific Power have option to buy electricity from an alternative provider
VA: Retail access ended for most customers -- except those >5 MW (w/conditions for return)

Source: Ken Rose, August 2018 58th IPU Annual Regulatory Studies Program.

Figure 2

AES Customers in Consumers Energy Service Territory, Year End

AES Name	Number of Customers						MW Served					
	2017	2018	2019	2020	2021	2022	2017	2018	2019	2020	2021	2022
Constellation NewEnergy Inc.	819	833	841	831	822	821	376	372	398	382	392	419
Direct Energy Business[1]	71	43	40	37	31	13	15	7	6	6	5	3
Energy Harbor fka FirstEnergy Solutions[2]	15	22	12	12	13	10	127	149	101	94	98	64
Calpine Energy Solutions, LLC fka Noble[4]	71	65	65	65	65	61	70	56	69	66	64	63
Spartan Renewable Energy	2	5	5	5	4	4	14	27	28	28	25	25
Wolverine Power Marketing	22	24	26	26	28	29	136	135	137	121	125	127
Totals	1,000	992	989	976	963	938	738	746	739	697	709	701

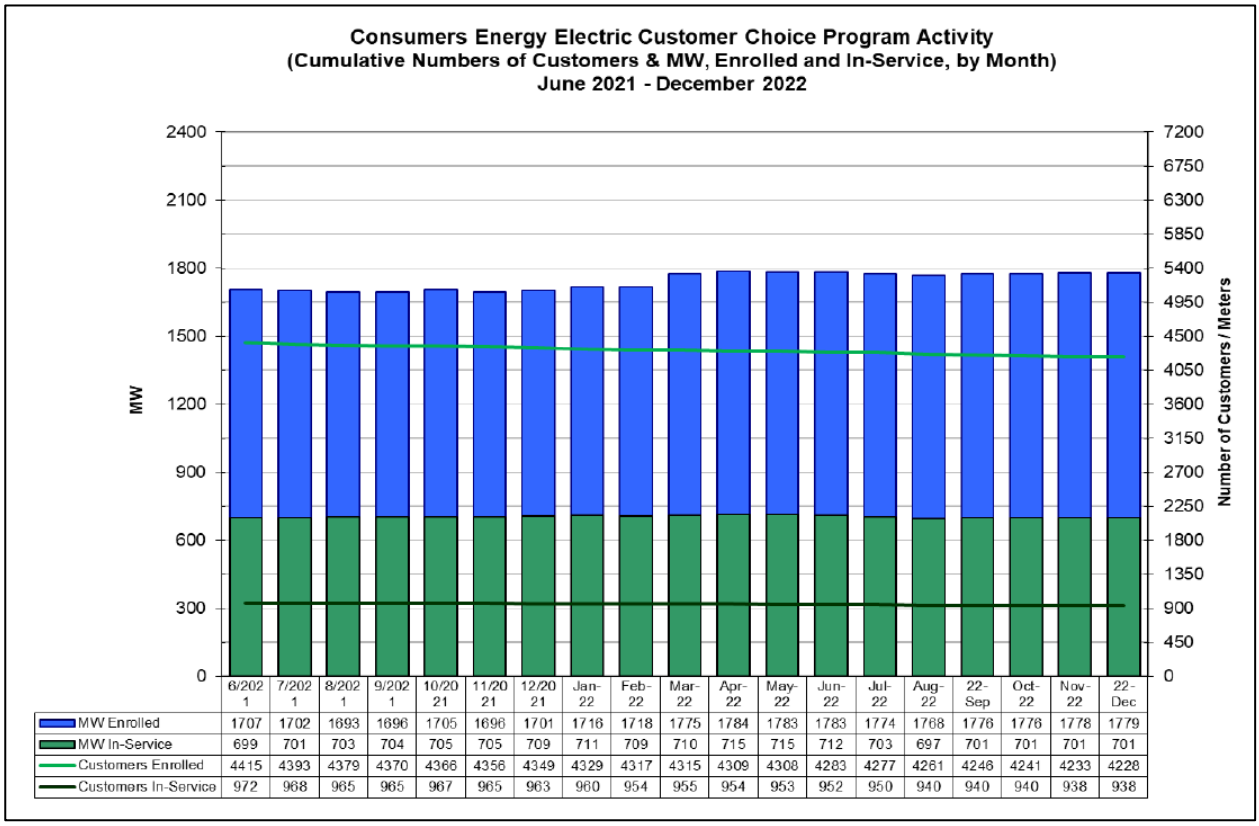
Note: [1]On September 1, 2008, Strategic Energy, LLC, changed its name to Direct Energy Business, LLC.

[2] On May 29, 2020, First Energy Solutions Corp., changed its name to Energy Harbor.

[3] On November 3, 2014, Integrys Energy Services, Inc., merged with Constellation, a subsidiary of Exelon Corporation. A legal name change from Integrys Energy Services, Inc. to Constellation Energy Services, Inc. became effective on April 1, 2015. Customers enrolled with Constellation Energy Services fka Integrys were transferred to Constellation NewEnergy Inc. during 2017.

[4] On November 1, 2010, Sempra Energy Solutions, LLC, changed its name to Noble Americas Energy Solutions, LLC. On December 1, 2016, Noble Americas Energy Solutions, LLC changed its name to Calpine Energy Solutions, LLC.

Figure 3



	6/2021	7/2021	8/2021	9/2021	10/2021	11/2021	12/2021	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	22-Sep	Oct-22	Nov-22	22-Dec
MW Enrolled	1707	1702	1693	1696	1705	1696	1701	1716	1718	1775	1784	1783	1783	1774	1768	1776	1776	1778	1779
MW In-Service	699	701	703	704	705	705	709	711	709	710	715	715	712	703	697	701	701	701	701
Customers Enrolled	4415	4393	4379	4370	4366	4356	4349	4329	4317	4315	4309	4308	4283	4277	4261	4246	4241	4233	4228
Customers In-Service	972	968	965	965	967	965	963	960	954	955	954	953	952	950	940	940	940	938	938

Source: Consumers Energy Company, December 2022.

Notes:

MW Enrolled – Total megawatts actively being served by an AES plus the total megawatts held by the queued customers.

MW In Service – Total megawatts actively being served by an AES.

Customers Enrolled – Total number of customers actively being served by an AES plus the total number of queued customers.

Customers In Service – Total customers actively being served by an AES.

Figure 4

AES Customers in DTE Electric Company Service Territory, Year End

AES Name	Number of Customers						MW Served					
	2017	2018	2019	2020	2021	2022	2017	2018	2019	2020	2021	2022
CMS ERM MI	12	12	12	12	12	20	35	35	35	35	35	35
Just Energy Solutions fka Commerce[1]	130	111	93	84	75	68	3	3	3	2	2	2
Constellation NewEnergy	2,014	2,161	2,227	2,191	2,487	2,348	470	503	515	505	603	583
Direct Energy Business[2]	1,476	1,342	1,271	1,219	1,181	1,100	399	387	370	364	361	332
Eligo Energy, MI LLC	18	15	0	0	0	0	2	1	0	0	0	0
Energy Harbor fka FirstEnergy Solutions[3]	55	20	19	19	53	64	30	8	7	7	35	36
Constellation Energy Services fka Integrys[4]	16	0	0	0	0	0	6	0	0	0	0	0
MidAmerican[5]	40	0	0	0	0	0	5	0	0	0	0	0
Calpine Energy Solutions, LLC fka Noble[6]	899	905	907	905	901	1,014	105	116	123	122	124	133
Wolverine Power Marketing	119	115	120	121	37	10	79	79	79	79	160	158
Totals[7]	4,779	4,681	4,649	4,551	4,746	4,624	1,134	1,132	1,132	1,116	1,320	1,279

Note: [1] On April 5, 2017, Commerce Energy Inc. changed its name to Just Energy Solutions, Inc.

[2] On September 1, 2008, Strategic Energy, LLC, changed its name to Direct Energy Business, LLC.

[3] On May 29, 2020, First Energy Solutions Corp., changed its name to Energy Harbor.

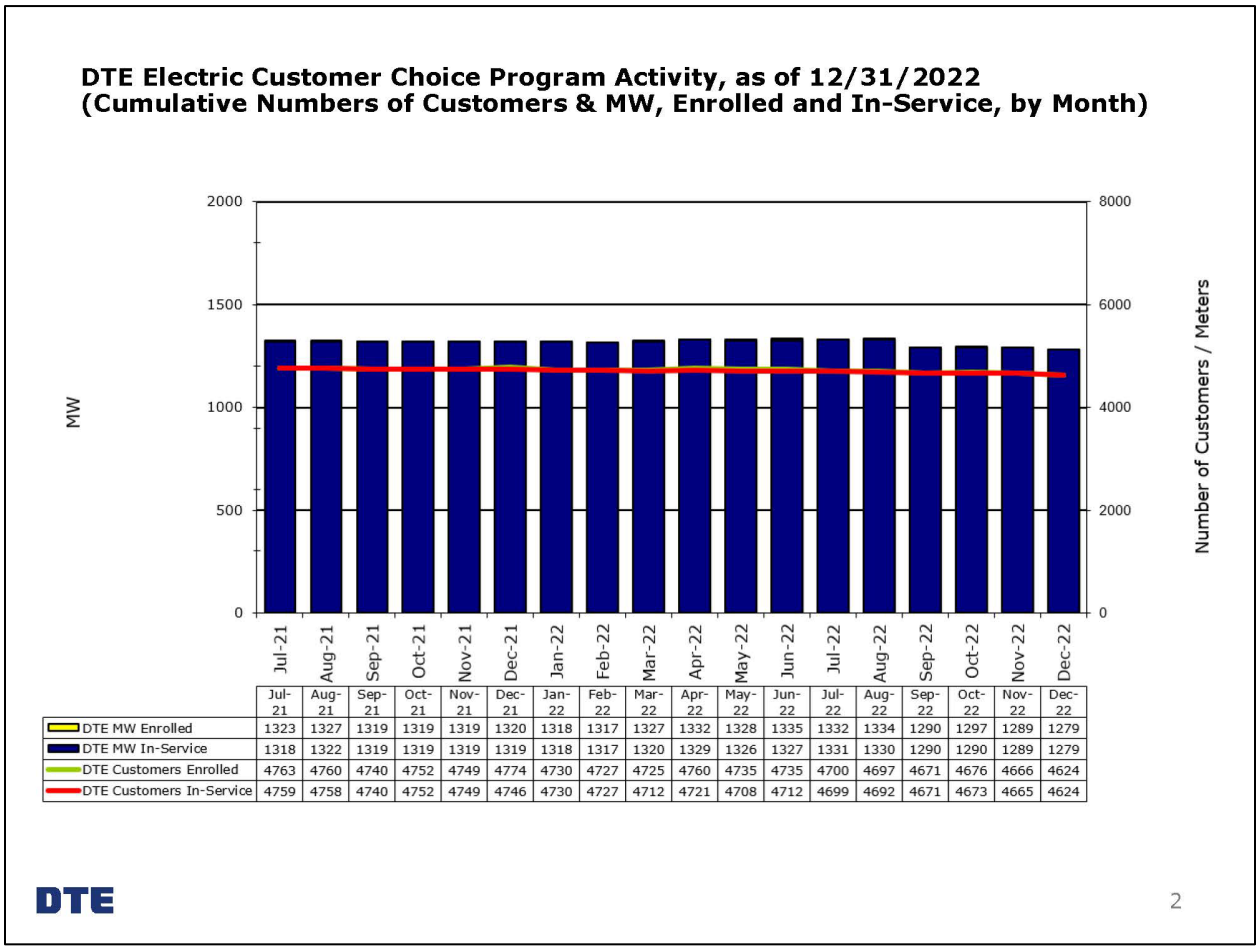
[4] On November 3, 2014, Integrys Energy Services, Inc., merged with Constellation, a subsidiary of Exelon Corporation. A legal name change from Integrys Energy Services, Inc. to Constellation Energy Services, Inc. became effective on April 1, 2015. Constellation Energy Services, Inc. customers were moved to Constellation NewEnergy in 2018.

[5] During 2016, MidAmerican Energy Company transferred their customers to MidAmerican Energy Services and voluntarily rescinded its AES license. MidAmerican now refers to MidAmerican Energy Services.

[6] On November 1, 2010, Sempra Energy Solutions, LLC, changed its name to Noble Americas Energy Solutions, LLC On December 1, 2016, Noble Americas Energy Solutions, LLC changed its name to Calpine Energy Solutions, LLC.

[7] Total does not add correctly due to rounding

Figure 5



	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
DTE MW Enrolled	1323	1327	1319	1319	1319	1320	1318	1317	1327	1332	1328	1335	1332	1334	1290	1297	1289	1279
DTE MW In-Service	1318	1322	1319	1319	1319	1319	1318	1317	1320	1329	1326	1327	1331	1330	1290	1290	1289	1279
DTE Customers Enrolled	4763	4760	4740	4752	4749	4774	4730	4727	4725	4760	4735	4735	4700	4697	4671	4676	4666	4624
DTE Customers In-Service	4759	4758	4740	4752	4749	4746	4730	4727	4712	4721	4708	4712	4699	4692	4671	4673	4665	4624

Source: DTE Electric Company, December 2022.

Notes:

MW Enrolled – Megawatts that have requested to switch to another AES.

MW In Service - Total megawatts actively being served by an AES.

Customers Enrolled –Customers who have requested to switch to another AES.

Customers In Service – Total customers actively being served by an AES.

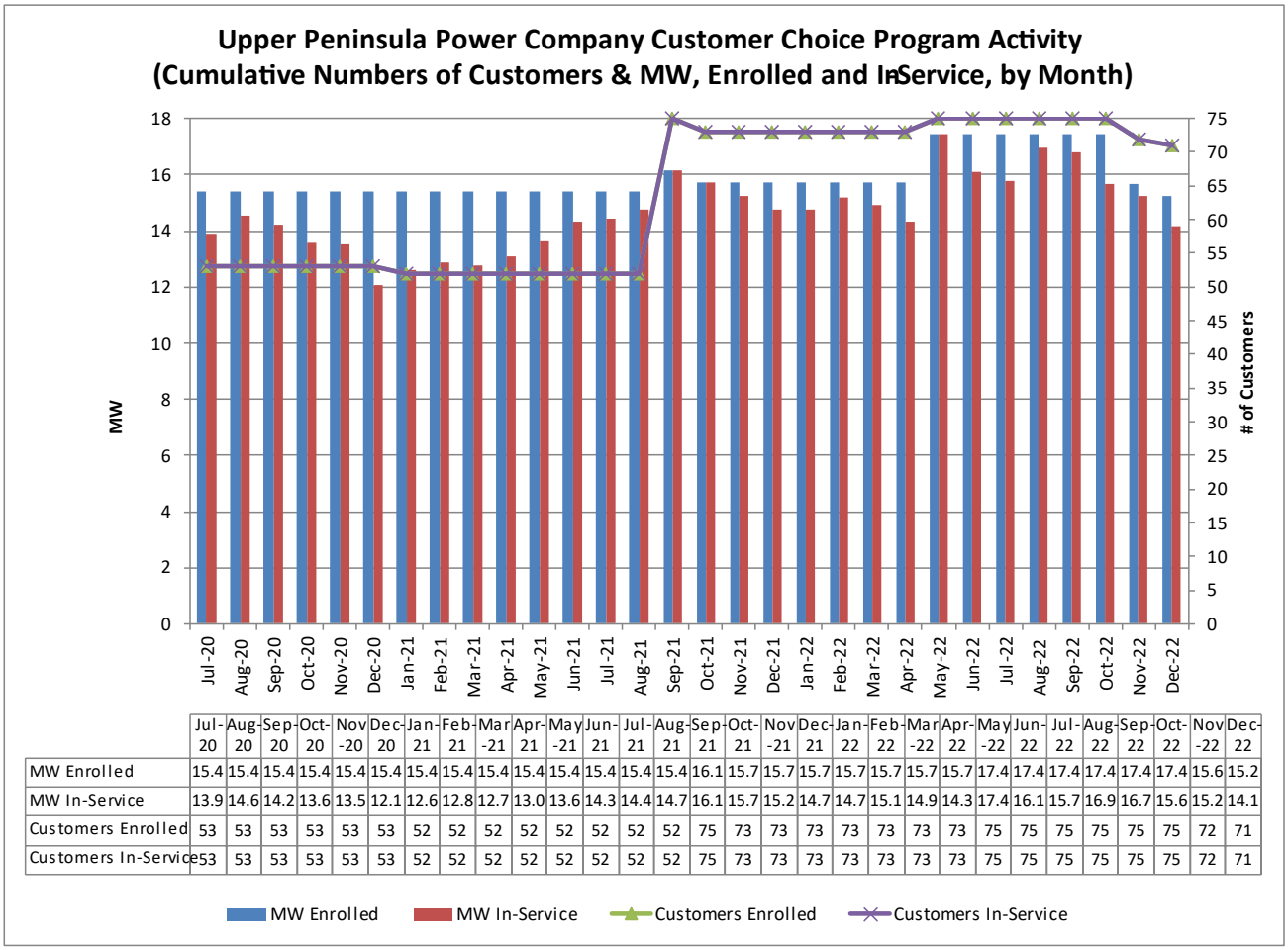
Figure 6

AES Customers in the UPPCo Service Territory, Year End

AES Name	Number of Customers						MW Served					
	2017	2018	2019	2020	2021	2022	2017	2018	2019	2020	2021	2022
Constellation Energy Services fka Integrys[1]	31	0	0	0	0	0	4.54	0	0	0	0	0
Constellation NewEnergy	0	56	51	51	71	69	0	6.614	6.33	6.174	7.712	7.125
UP Power Marketing	30	0	0	0	0	0	4.17	0	0	0	0	0
Wolverine Power Marketing	1	2	2	2	2	2	5.48	6.877	6.95	5.908	7.049	7.025
Totals	62	58	53	53	73	71	14.19	13.491	13.28	12.082	14.761	14.150

Note: [1]On November 3, 2014, Integrys Energy Services, Inc., merged with Constellation, a subsidiary of Exelon Corporation. A legal name change from Integrys Energy Services, Inc. to Constellation Energy Services, Inc. became effective on April 1, 2015. Constellation Energy Services, Inc. customers were moved to Constellation NewEnergy in 2018.

Figure 7



	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
MW Enrolled	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	16.1	15.7	15.7	15.7	15.7	15.7	15.7	15.7	17.4	17.4	17.4	17.4	17.4	17.4	15.6	15.2
MW In-Service	13.9	14.6	14.2	13.6	13.5	12.1	12.6	12.8	12.7	13.0	13.6	14.3	14.4	14.7	16.1	15.7	15.2	14.7	14.7	15.1	14.9	14.3	17.4	16.1	15.7	16.9	16.7	15.6	15.2	14.1
Customers Enrolled	53	53	53	53	53	53	52	52	52	52	52	52	52	52	75	73	73	73	73	73	73	73	75	75	75	75	75	75	72	71
Customers In-Service	53	53	53	53	53	53	52	52	52	52	52	52	52	52	75	73	73	73	73	73	73	73	75	75	75	75	75	75	72	71

Source: Upper Peninsula Power Company, December 2022.

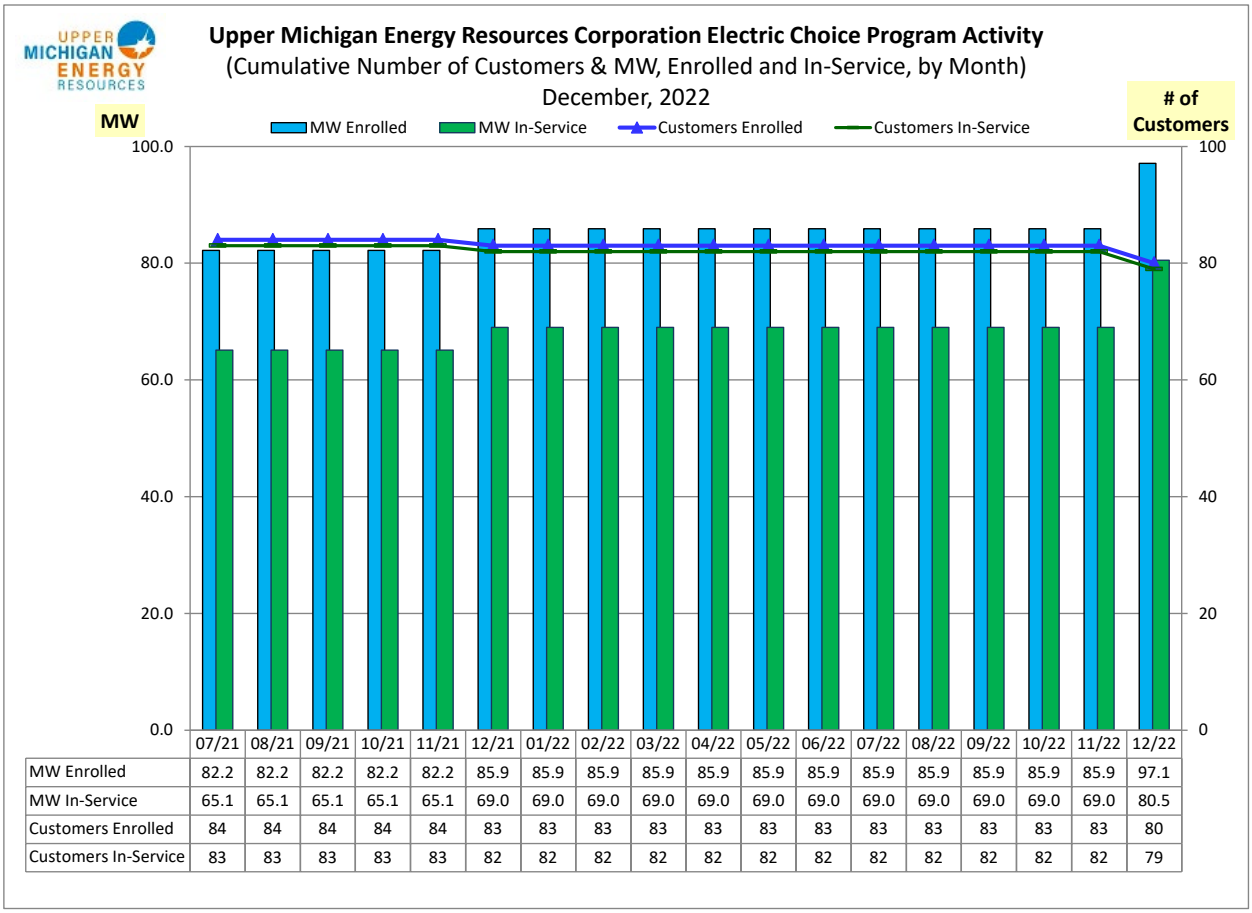
Figure 8

AES Customers in the UMERC Service Territory, Year End

AES Name	Number of Customers					MW Served				
	2018	2019	2020	2021	2022	2018	2019	2020	2021	2022
Constellation Energy Services fka Integrys[1]	0	0	0	0	0	0	0	0	0	0
Constellation NewEnergy, Inc.	87	84	84	82	79	68.9	72.2	72.2	69	80.5
Totals	87	84	83	82	79	68.9	72.2	65.1	69	80.5

Note: [1]On November 3, 2014, Integrys Energy Services, Inc., merged with Constellation, a subsidiary of Exelon Corporation. A legal name change from Integrys Energy Services, Inc. to Constellation Energy Services, Inc. became effective on April 1, 2015. Constellation Energy Services, Inc. customers were moved to Constellation NewEnergy in 2018.

Figure 9



	07/21	08/21	09/21	10/21	11/21	12/21	01/22	02/22	03/22	04/22	05/22	06/22	07/22	08/22	09/22	10/22	11/22	12/22
MW Enrolled	82.2	82.2	82.2	82.2	82.2	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	85.9	97.1
MW In-Service	65.1	65.1	65.1	65.1	65.1	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	80.5
Customers Enrolled	84	84	84	84	84	83	83	83	83	83	83	83	83	83	83	83	83	80
Customers In-Service	83	83	83	83	83	82	82	82	82	82	82	82	82	82	82	82	82	79

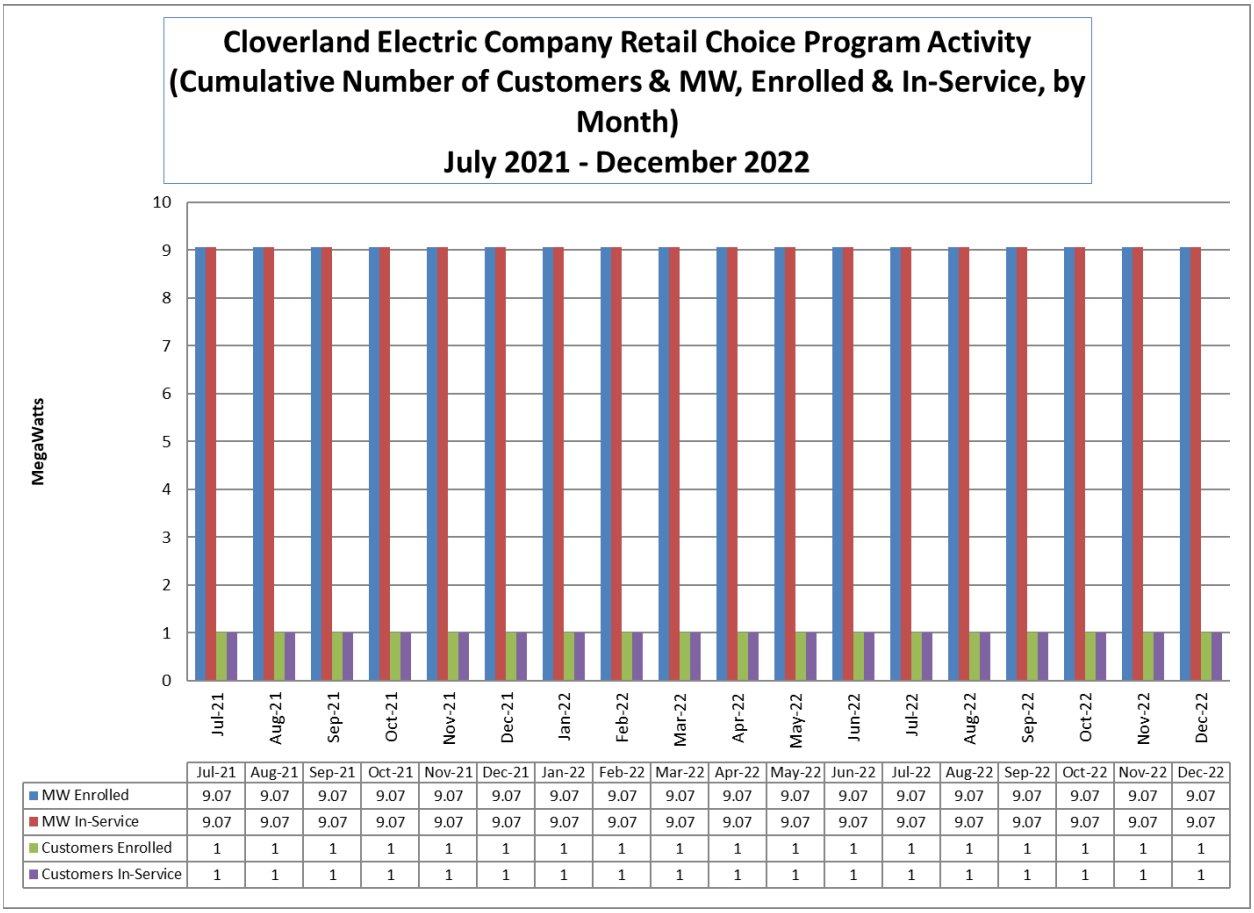
Source: Upper Michigan Energy Resources Corporation, December

Figure 10

AES Customers in the Cloverland Service Territory, Year End

AES Name	Number of Customers						MW Served					
	2017	2018	2019	2020	2021	2022	2017	2018	2019	2020	2021	2022
Spartan Renewable	1	1	1	1	1	1	8	8.7	9.07	9.07	9.07	9.07
Totals	1	1	1	1	1	1	8	8.7	9.07	9.07	9.07	9.07

Figure 11



	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
MW Enrolled	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07
MW In-Service	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07	9.07
Customers Enrolled	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Customers In-Service	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

Source: Cloverland Electric Cooperative, December 2022.

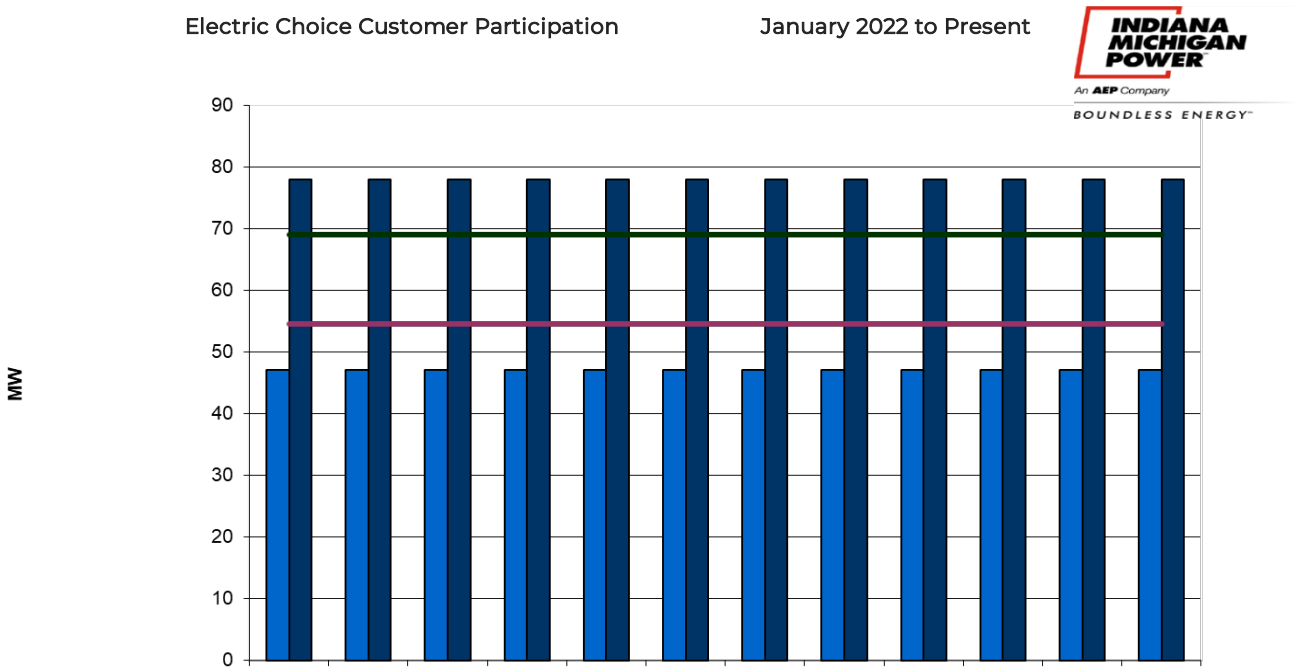
Figure 12

AES Customers in the Indiana Michigan Power Service Territory, Year End

AES Name	Number of Customers				MW Served			
	2019	2020	2021	2022	2019	2020	2021	2022
Constellation NewEnergy, Inc.	41	41	48	47	52.86	52.86	55.1	54.6
Totals	41	41	48	47	52.86	52.86	55.1	54.6

Figure 13

Electric Choice Customer Participation



	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Customers In-Service	47	47	47	47	47	47	47	47	47	47	47	47
Customers Enrolled	78	78	78	78	78	78	78	78	78	78	78	78
MW Enrolled	68.9682	68.9682	68.9682	68.9682	68.9682	68.9682	68.9682	68.9682	68.9682	68.9682	68.9682	68.9682
MW In-Service	54.584	54.584	54.584	54.584	54.584	54.584	54.584	54.584	54.584	54.584	54.584	54.584

Source: Indiana Michigan Power, December 2022.

Appendix 2

Michigan Public Service Commission Orders Related to Implementation of Public Acts 141 of 2000, 286 of 2008 and 341 of 2016

Provisions in 2016 Act 341 Sec. 6w require all electric providers, including AESs, to demonstrate to the MPSC that they have enough resources to serve the anticipated needs of their customers four years forward. If an AES cannot or chooses not to arrange generating capacity to meet the new requirement, they would be subject to the SRM Charge. The SRM Charge is set by the MPSC and would be paid to the utility. The following are SRM cases that impact AESs:

- Consumers Energy Company – U-20963, order dated December 22, 2021
- Upper Peninsula Power Company – U-21104, order dated November 4, 2021
- Upper Michigan Energy Resources Corporation – U-21222, order dated September 8, 2022
- Cloverland Electric Cooperative – U-20508, order dated July 2, 2019
- DTE Electric Company – U-20836, order dated November 18, 2022
- Indiana Michigan Power Company – U-20359, order dated January 23, 2020

U-21099 - In the matter, on the Commission's own motion, to open a docket for load serving entities in Michigan to file their capacity demonstrations as required by MCL 460.6w. On June 23, 2022, the Commission accepted in part Staff's Report and adopted the recommendations with respect to the 2025-2026 planning year capacity demonstration. The Commission found that one show cause proceeding was necessary and opened U-21250 for Spartan Renewable Energy Inc. (Spartan).

U-21250 - In the matter, on the Commission's own motion, directing Spartan Renewable Energy, Inc., to show cause why it should not be found to be in violation of MCL 460.6w. On October 27, 2022, the Commission found Spartan's capacity demonstration to be deficient. On December 9, 2022, the U-21250 docket was closed after Cloverland Electric Cooperative filed an updated capacity demonstration, indicating alternative capacity arrangements associated with the former Spartan customer. No AES customers are being levied an SRM capacity charge for the 2025-2026 planning year.

U-21225 - In the matter, on the Commission's own motion, to open a docket for load serving entities in Michigan to file their capacity demonstrations as required by MCL 460.6w. On June 23, 2022, the Commission opened this docket for all electric providers, including AESs, to file their capacity demonstrations.

U-18444 - In the matter on the Commission's own motion to open a contested case proceeding for determining the process and requirements for a forward locational requirement under MCL 460.6w. On October 11, 2017, the Commission opened a contested case proceeding for determining the process and requirement for a forward locational

U-15140 - Liberty Power Delaware LLC: Application for Alternative Electric Supplier in Michigan. On April 14, 2022, the Commission approved Liberty Power Delaware's request to surrender their AES license.

Appendix 3

Michigan Licensed Alternative Electric Suppliers

Company Name, Address, Contact Information	Case Number	Authorization Date
AEP Energy, Inc. 2723 South State Street, Suite 150, Ann Arbor, MI 48104 Phone: 866-258-3782 Fax: 734-794-4701 Email: care@AEPenergy.com URL: www.AEPenergy.com	U-14764	2/9/2006
Calpine Energy Solutions f/k/a Noble Americas Energy Solutions, LLC 2000 Town Center, Suite 1900, Southfield, MI 48075 Phone: 877-273-6772 Fax: 619-684-8355 Email: customerservice@CalpineSolutions.com URL: www.CalpineSolutions.com	U-13361	4/16/2002
CMS ERM Michigan LLC One Energy Plaza, Suite 1060, Jackson, MI 49201- 2277 Phone: 517-788-0493 Fax: 517-787-4606	U-12567	8/17/2000
Constellation NewEnergy, Inc. 38779 6 Mile Rd., Livonia, MI 48152 Phone: 877-465-1244 Email: home@constellation.com URL: www.constellation.com	U-13660	12/20/2002
Dillon Power, LLC 23409 Jefferson Ave., Suite 110, St, Clair Shores, MI 48080 Phone: 866-919-2679 Email: info@dillonpower.com URL: www.dillonpower.com	U-17723	1/13/2015
Direct Energy Business, LLC 110 W Michigan Ave., Suite 500, Lansing, MI 48933 Phone: 866-348-4193 Email: DEBSales@directenergy.com URL: www.business.directenergy.com	U-13609	11/7/2002
Direct Energy Services, LLC 110 W Michigan Ave., Suite 500, Lansing, MI 48933 Phone: 866-326-8559 Email: csdirectenergy@directenergy.com URL: www.directenergy.com	U-14724	12/20/2005
EDF Energy Services, LLC 40600 Ann Arbor Rd. E, Suite 200 Plymouth, MI 48170 Phone: 877-432-4530 Fax: 281-653-1436 Email: Cherie.fuller@edfenergyservices.com URL: www.edfenergyservices.com	U-17937	2/23/2016
Eligo Energy MI, LLC 2000 Town Center, Suite 1900, Southfield, MI, 48075 Phone: 888-744-8125 Email: customerservice@eligoenergy.com URL: www.eligoenergy.com	U-17697	6/15/2015
ENGIE Gas & Power f/k/a Plymouth Energy 40600 Ann Arbor Rd. E, Ste. 201, Plymouth, MI 48170 Phone: 855-327-6937 Fax: 516-295-1417 Email: customercare@plymouthenergy.com URL: www.plymouthenergy.com	U-17492	1/23/2014
Energy Harbor LLC f/k/a FirstEnergy Solutions 30600 Telegraph Rd. #2345, Bingham Farms, MI 48025 Phone: 888-254-6359 Fax: 888-820-1416 Email: firstchoice@fes.com URI: www.energyharbor.com	U-13244	1/08/2002

Company Name, Address, Contact Information	Case Number	Authorization Date
AEP Energy, Inc. 2723 South State Street, Suite 150, Ann Arbor, MI 48104 Phone: 866-258-3782 Fax: 734-794-4701 Email: care@AEPenergy.com URL: www.AEPenergy.com	U-14764	2/9/2006
Calpine Energy Solutions f/k/a Noble Americas Energy Solutions, LLC 2000 Town Center, Suite 1900, Southfield, MI 48075 Phone: 877-273-6772 Fax: 619-684-8355 Email: customerservice@CalpineSolutions.com URL: www.CalpineSolutions.com	U-13361	4/16/2002
CMS ERM Michigan LLC One Energy Plaza, Suite 1060, Jackson, MI 49201-2277 Phone: 517-788-0493 Fax: 517-787-4606	U-12567	8/17/2000
Constellation NewEnergy, Inc. 38779 6 Mile Rd., Livonia, MI 48152 Phone: 877-465-1244 Email: home@constellation.com URL: www.constellation.com	U-13660	12/20/2002
Dillon Power, LLC 23409 Jefferson Ave., Suite 110, St, Clair Shores, MI 48080 Phone: 866-919-2679 Email: info@dillonpower.com URL: www.dillonpower.com	U-17723	1/13/2015
Direct Energy Business, LLC 110 W Michigan Ave., Suite 500, Lansing, MI 48933 Phone: 866-348-4193 Email: DEBSales@directenergy.com URL: www.business.directenergy.com	U-13609	11/7/2002
Direct Energy Services, LLC 110 W Michigan Ave., Suite 500, Lansing, MI 48933 Phone: 866-326-8559 Email: csdirectenergy@directenergy.com URL: www.directenergy.com	U-14724	12/20/2005
EDF Energy Services, LLC 40600 Ann Arbor Rd. E, Suite 200 Plymouth, MI 48170 Phone: 877-432-4530 Fax: 281-653-1436 Email: Cherie.fuller@edfenergyservices.com URL: www.edfenergyservices.com	U-17937	2/23/2016
Eligo Energy MI, LLC 2000 Town Center, Suite 1900, Southfield, MI, 48075 Phone: 888-744-8125 Email: customerservice@eligoenergy.com URL: www.eligoenergy.com	U-17697	6/15/2015
ENGIE Gas & Power f/k/a Plymouth Energy 40600 Ann Arbor Rd. E, Ste. 201, Plymouth, MI 48170 Phone: 855-327-6937 Fax: 516-295-1417 Email: customercare@plymouthenergy.com URL: www.plymouthenergy.com	U-17492	1/23/2014
Energy Harbor LLC f/k/a FirstEnergy Solutions 30600 Telegraph Rd. #2345, Bingham Farms, MI 48025 Phone: 888-254-6359 Fax: 888-820-1416 Email: firstchoice@fes.com URl: www.energyharbor.com	U-13244	1/08/2002

This list is current as of December 2022. An up-to-date AES directory is maintained on the MPSC Website.