MPSC
MICHIGAN PUBLIC SERVICE COMMISSION

Status of Renewable Energy, Distributed Generation, and Legacy Net Metering in Michigan

October 8, 2025

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LICENSING AND REGULATORY AFFAIRS

Contents

Executive Summary

This Michigan Public Service Commission (Commission) annual report combines and summarizes renewable energy activities related to the Renewable Energy Portfolio Standard (RPS) pursuant to Public Act 295 of 2008 (PA 295), as amended by Public Act 342 of 2016 (PA 342) and subsequently by Public Act 235 of 2023 (PA 235); Voluntary Green Pricing Programs (VGP); Integrated Resource Plans (IRP); Public Utility Regulatory Policies Act (PURPA); and Distributed Generation and Legacy Net Metering Programs.[1]

PA 235 was signed into law in 2023, requiring electric providers to reach and maintain a renewable portfolio requirement of 15% through 2029, 50% from 2030 through 2034, and finally achieve a 60% renewable portfolio in 2035 and maintain it each year thereafter. While this report specifically addresses the renewable energy portfolio requirements, it should be noted that Section 51 of PA 235 also requires a clean energy portfolio (CEP) in which electric providers must submit a plan, as part of their IRPs, showing that electric load is served with at least 80% clean energy systems[2] in 2035-2039 and 100% in 2040 and maintained each year thereafter.

Overall, a total of 1698 megawatts (MW) of renewable energy was added to the grid in 2024, bringing the total installed capacity to 7580 MW. This represents an increase of 28.9% over the 5882 MW of renewable energy that was online at the end of 2023.

Pursuant to PA 235, the Commission's February 8, 2024 Order in Case No. U-21568 set forth a staggered amended renewable energy plan (REP) filing schedule. The statute gives the Commission 300 days, from the date of filing, to issue a final order on each of the REPs with final Commission orders expected in all cases by the end of 2025.

Because compliance requirements under PA 235 begin with Commission approval of amended REPs which will be completed in December 2025, the 2024 data included in this report still utilizes compliance requirements under PA 342, the predecessor statute to PA 235. In 2024, electric providers voluntarily retired within the Michigan Renewable Energy Certification System (MIRECS) a total of 14,216,008 renewable energy credits (RECs[3]), or 15% of their portfolio, to meet the renewable portfolio standard.

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[1] Subject to Section 51 of Public Act 295, as amended, the MPSC was directed to prepare an annual report summarizing the Commission's activities related to PA 295 and electric provider's annual reports. Section 51 was repealed effective January 1, 2023. The final reports issued pursuant to Section 51 are available at the MPSC's website: https://www.michigan.gov/mpsc/regulatory/reports/legislative.

[2] A clean energy system is a facility that generates electricity without emitting greenhouse gases, including nuclear, or a natural gas facility that is 90% effective in capturing and permanently storing carbon dioxide.

[3] The term "renewable energy credit" includes renewable energy credits, Michigan incentive renewable energy credits, and energy waste reduction credits when substituted for renewable energy credits. One megawatt hour of renewable energy creates one credit.

PA 342 extended the life for RECs generated after April 1, 2017, to five years from the previous three-year REC "banking" allowance, continuing with the amended PA 235. All RECs are tracked through the MIRECS system.[4]

By the end of 2025, Michigan's rate-regulated electric providers will have approximately 8.3 gigawatts of renewable energy projects within Michigan, as shown in the contract summary in **Appendix A**. When factoring in rate-regulated electric provider projections in amended REPs, it is expected that Michigan's rate-regulated electric providers will have approximately 17.8 gigawatts of operational renewable energy by the end of 2030.

In addition to increasing the renewable portfolio standard (RPS) and the inclusion of a CEP, PA 235 included several changes to the Distributed Generation (DG) program, most notably the minimum DG program size increased from 1% of a utility's average in-state peak load for the previous 5 years to 10%. During 2024, the capacity of the generation participating in the DG program increased from 189.6 megawatts (MW) in 2023 to 222.4 MW in 2024, an increase of more than 17%.

[4] MIRECS website: https://mirecs.org/.

Introduction

This Michigan Public Service Commission (Commission or MPSC) annual report provides information on renewable energy activities through calendar year 2024 and summarizes data from electric provider 2024 annual reports and the contract summary showing all Commission-approved contracts approved to date as shown in **Appendix A**. Locations of these contracts and all Michigan generation are shown on the Commission's website.[5] Additionally, this report shows renewable energy projections through the end of the 20-year amended renewable energy plan (REP) period based on the renewable portfolio standard (RPS), voluntary green pricing programs (VGP), integrated resource plans (IRPs), Public Utility Regulatory Policies Act (PURPA) resources, and the distributed generation and legacy net metering programs.[6]

Public Act 235 of 2023 (PA 235) will significantly transform Michigan's electric generation portfolio over the next several years. PA 235 requires electric providers to maintain a renewable portfolio requirement of 15% through 2029, 50% from 2030 through 2034, and finally achieve a 60% renewable portfolio in 2035 and maintain it each year thereafter. In addition, PA 235 increases the distributed generation program requirement for rate-regulated electric providers and alternative electric suppliers (AES) from 1% of average in-state peak load to 10%. Some rate-regulated electric providers had voluntarily increased their programs prior to this requirement, but none had reached 10% as is now legislatively required. PA 235 also established a clean energy standard for electric providers which will ultimately require 100% of Michigan's electric generation to come from resources that do not emit greenhouse gases or that capture and store carbon dioxide, as well as establishing a statewide energy storage target of 2,500 MW.

In addition to PA 235 and to help facilitate these new legislative requirements, Governor Whitmer signed Public Act 233 of 2023 (PA 233) into law, which provides siting authority to the Commission for utility scale wind, solar, and energy storage facilities under certain specific circumstances.

While this report specifically focuses on renewable energy and distributed generation, the clean energy plan, storage requirements, and renewable energy and energy storage siting legislation will inevitably affect the future generation portfolio. Therefore, these requirements and the MPSC's related efforts are discussed in more detail below in subsequent sections.

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[5] Commission's GIS Generation Maps: https://data-michiganpsc.hub.arcgis.com/.

[6] Subject to Section 51 of Public Act 295, as amended, the MPSC was directed to prepare an annual report summarizing the Commission's activities related to PA 295 and electric provider's annual reports. Section 51 was repealed effective January 1, 2023. The final reports issued pursuant to Section 51 are available at the MPSC's website: https://www.michigan.gov/mpsc/regulatory/reports/legislative.

State-Level Legislation

Clean Energy Plan

PA 235 established a clean energy standard of 80% by 2035 and 100% by 2040. Electric providers will need to file plans with the Commission beginning no later than January 1, 2028. The Commission will need to establish formats and guidelines for the Clean Energy Plans by January 1, 2026.

On February 8, 2024, the Commission issued an Order in Case No. U-21570 that directed Staff to provide a straw proposal related to providing formats and guidelines for investor-owned utilities, municipal electric utilities, cooperative electric utilities, and AESs to submit a clean energy plan pursuant to the requirements of Act 235. In accordance with the February 8 Order, Staff's redline shall be posted to the docket no later than September 30, 2024. Staff is also directed to hold public engagement sessions to discuss formats and guidelines related to the clean energy plan. Staff held the first outreach sessions on October 17, 2024, and the second on March 4, 2025. These ongoing efforts can be followed on the Commission's Clean Energy Plan web page.[7]

Statewide Energy Storage Target

PA 235 establishes a statewide energy storage target of 2,500 MW. By December 31, 2029, rate-regulated utilities will need to make filings for approvals related to the storage target as part of their IRPs pursuant to MCL 460.6t. Each AES will need to file plans detailing how it will comply with the target followed by demonstrating compliance with the plan via capacity demonstration filings required under Public Act 341 of 2016 (PA 341), Section 6w(8)(b). Rate-regulated utilities are required to begin filing annual storage reports no later than December 31, 2024.

On February 8, 2024, the Commission issued an Order in Case No. U-21571 that directed Staff to propose a methodology for calculating the proportional share of the statewide storage target for each rate-regulated utility and AES, hold at least one public meeting, and provide a comment period for all interested parties through August 1, 2024. As such, Staff posted its proposed methodology to the docket on May 29, 2024. Following that, Staff held a public meeting on June 12, 2024.

PA 235, Section 7, also directed the Commission to complete a study on long-term energy storage systems and multiday energy storage systems within one year after the effective date of the amendatory act (by February 24, 2025). Staff worked with

[7] Clean Energy Plan webpage: https://www.michigan.gov/mpsc/commission/workgroups/2023-energy-legislation/clean-energy-standard.

the United States Department of Energy (US DOE) to complete this study[8]. In addition, Staff and Commissioners have joined the Long Duration Energy Storage National Consortium to, among other things, develop an informed understanding of the available technology and best practices nationwide. More information is available on the Commission's Statewide Energy Storage Target web page.[9]

Renewable Energy and Energy Storage Siting

On November 28, 2023, Governor Gretchen Whitmer signed House Bill 5120 (PA 233 of 2023 or PA 233) which provides siting authority to the Commission for utility-scale wind, solar, and energy storage facilities under specified conditions.

On February 8, 2024, the Commission issued an Order[10] in Case No. U-21547 directing Staff to hold public meetings starting in March 2024, engage with experts, local units of government, project developers, and other interested parties to consider: issues relating to application filing instructions or guidelines; the potential use of consultants; the assessment of application fees; pre-application consultations; guidance for use in the development of compatible renewable energy ordinances; and any additional issues that may arise during the engagement process. As directed by the order, Staff filed its proposed application instructions and procedures for renewable energy and energy facility siting[11] on June 21, 2024. Comments were filed by July 17, 2024, and reply comments by August 9, 2024. The MPSC created a renewable energy and energy storage web page to provide information about PA 233 implementation activities.[12]

The Renewable Energy and Storage Siting web page[13] contains detailed information regarding Staff's process for its review of the application materials, graphics, key contacts for interagency pre-application consultations, and frequently asked questions. For developers seeking to file an application, the web page also contains the most up-to-date applicant guidance, including the "Pre-Application Meeting Questionnaire," "Application Filing Instructions and Procedures," and the "PA 233 Applicant Checklist." Additionally, the web page includes a data table showing the

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[8] Report available here: https://www.michigan.gov/mpsc/-/media/Project/Websites/mpsc/workgroups/2023-Energy-Legislation/Study-of-LDES-and-MDES.pdf.

[9] Statewide Energy Storage Target web page: https://www.michigan.gov/mpsc/commission/workgroups/2023-energy-legislation/statewide-energy-storage-target.

[10] February 8, 2024, Order in U-21547: https://mi-psc.my.site.com/sfc/servlet.shepherd/version/download/0688y00000BubM7AAJ.

[11] Siting Procedures: https://mi-psc.my.site.com/sfc/servlet.shepherd/version/download/0688y00000E9g7hAAB.

[12] Energy Storage web page: https://www.michigan.gov/mpsc/commission/workgroups/2023-energy-legislation/renewable-energy-and-energy-storage-facility-siting.

[13] Renewable Energy and Storage Siting web page: https://www.michigan.gov/mpsc/regulatory/facility-siting/renewable-energy-and-storage-facility-siting.

status of each current siting application along with additional supporting information.

On July 10, 2025, the Commission issued an order that temporarily waived some of the required fees, including the base application fee, to be submitted at the time of filing.

To date, the MPSC has received three applications for MPSC siting approval, each for construction of new solar energy facilities. The first application, Acceleration Solar, LLC, is for a 90-MW solar facility proposed in Vevay, Onondaga, and Leslie Townships in Ingham County. This was originally filed on June 18, 2025, and was assigned Case No. U-21932. On August 1, 2025, the application was deemed incomplete and supported by a Staff memo filed to the docket describing the deficiencies. The applicant submitted a revised application addressing these items on October 3, 2025, which is currently under Staff review.

On September 8, 2025, a second application was submitted for MPSC siting approval. This case, Otisville Solar PV 1, LLC, is for a proposed 125 MW solar facility in Forest and Thetford Townships in Genesee County. This case was assigned Case No. U-21956.

On September 25, 2025, a third application was filed. This case, Washtenaw Solar Energy, LLC, is for a 150 MW solar facility in Saline Township, Washtenaw County. This case was assigned Case No. U-21962.

The Commission must make a final decision to grant or deny a PA 233 certificate within one year from the time of submission of a complete application. At the time of this report, no PA 233 certificates have been granted.

Federal-Level Legislation

The One Big Beautiful Bill Act and Reciprocal Trade and Tariffs

On July 4, 2025, President Trump signed H.R. 1 into law. The One Big Beautiful Bill Act (OBBBA) replaces certain aspects of its predecessor bill, the Inflation Reduction Act. The OBBBA will have significant impacts on the cost of renewable energy going forward with accelerated sunsets for both the Investment Tax Credit (ITC) and the Production Tax Credit (PTC), which has historically been applied to nearly every renewable energy development in Michigan. Under an executive order issued July 7, 2025, President Trump directed the Treasury Secretary to take action to enforce the termination of these tax credits and issue further guidance by August 18, 2025. While the OBBBA will impact several industries, its effect on wind, solar, and storage will be noticed by Michigan electric providers in the next couple of years as projects that have not yet commenced construction or potentially safe harbored equipment by July 4, 2026[14] will see a phase out of tax credits completely, and tax credits for currently operating renewable generation will end in 2033.[15] These industry impacts

[14] Final completion of the project must take place within four years of the start of construction.
[15] https://business.columbia.edu/insights/climate/one-big-beautiful-bill-setback-clean-energy.

are shown by the Columbia Business School in **Figure 1** below. While all amended REPs had been filed prior to the OBBBA and assumed federal tax incentives, Consumers Energy's rebuttal testimony, in support of its amended REP, highlighted the potential effect from the removal of these tax credits. It showed an increase of 37% in the levelized cost of energy (LCOE) for solar and a 48% increase in the LCOE for wind resources.[16]

In addition to the removal of federal tax credits, Michigan electric providers are working to mitigate cost risk due to the February 13, 2025, reciprocal trade and tariff policies.[17] Electric providers have started to include tariff threshold adders into existing renewable procurement contracts. While the total impact is still unknown, Staff has recently started to see tariff threshold contract terms which allow for the reopening of pricing terms in the event that tariffs increase contract costs beyond a set amount.[18]

[16] Kenneth D. Johnston's Rebuttal Testimony, Page 23, Dated April 8, 2025: https://mi-psc.my.site.com/sfc/servlet.shepherd/version/download/068cs00000j55gMAAQ.
[17] https://www.whitehouse.gov/articles/2025/02/reciprocal-trade-and-tariffs/.
[18] Contract reference language, PDF page 28: https://mi-psc.my.site.com/sfc/servlet.shepherd/version/download/068cs000012ofr9AAA.

Figure 1: Industry Impacts From OBBBA

OBBBA

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One Big Beautiful Bill Act phases out incentives for solar & wind, biggest impacts on EV adoption and US manufacturing

Technology	IRA Incentives (2022-2025) vs OBBBA Policy Changes (2025 onward)	Industry Outlook[2] in the U.S. with OBBBA
Solar & Wind	• 48E and 45Y credits available until 2033 • Phased out after 2027[1]; sourcing rules tightened (FEOC)	• Continued growth trend through 2030, significant slow-down by 2035[3] • Overall higher electricity end-user prices
Green Hydrogen	• 45V credit available until 2033 • Phased out by 2028	• Deployment undermined by weak demand, loss of incentives, and sourcing restrictions
Electric Vehicles	• 30D, 25E, and 45W credits for EVs; 30C for charging infrastructure • Phased out by 2026 (30D/25E/45W by Oct 2025, 30C by Jul 2026)	• Consumer adoption hit by loss of credits and policy uncertainty
Manufacturing	• 45X and 28C credits support clean tech supply chain • 45X phased out after 2027 (wind) and 2028 (solar/storage); 48C compromised by sourcing rules	• Clean energy manufacturing hit by loss of credits and supply chain constraints • Subsidy loss threatens existing investments
Carbon Capture	• 45Q credit available until 2033 • Preserved; EOR provisions enhanced	• Growth in oil and gas CCS, challenged by foreign entity restrictions
Energy Storage	• 48E credit available until 2033 • Preserved in full	• Preserved credits support growth, challenged by foreign entity restrictions
Biofuels	• 45Z credit available until 2027 • Extended to 2029; feedstock sourcing rules tightened; capped SAF	• Slow adoption, challenged by foreign entity restrictions
Geothermal	• 48E and 45Y credits available until 2033 • Preserved in full	• Moderate growth from low baseline • R&D support for superhot geothermal
Nuclear	• ITC/PTC for new, 45U for existing plants available until 2033 • Preserved in full; fuel sourcing rules apply after 2028	• Challenges remain for large ~1GW reactors • More optimistic outlook for SMRs, XMRs
Oil, Gas	• No support • Gains tax breaks, public land access, and regulatory rollbacks	• Stable or rising share, as renewables face disadvantage

(1) Construction by 4 July 2026 = 4 years to completion, after = in service before 2028. (2) EV, Carbon Capture, Energy Storage, Biofuels, Hydrogen and Oil, Gas & Coal's Outlook use EIA's reference case and alternative transportation case. (3) Outlook expectations for solar and wind based on EIA's 2025 AEO, using "Reference" Case and "High Zero-Carbon Technology Cost" Case. Sources: Congress, One Big Beautiful Bill Act (2025); DOE, Inflation Reduction Act (2022); Norton Rose Fulbright, Effects of "One Big Beautiful Bill" On Projects (2025); CKI Analysis (2025). Credit: Mariana Castaño, Ariela Farchi, Nicolas Herrera Isaza, Isabel Hoyos, Hyae Ryung Kim, and Gernot Wagner, Share with attribution: Castaño *et al.* "Climate Impact of One Big Beautiful Bill Act" (15 July 2025).

Columbia Business School
Climate Knowledge Initiative

Renewable Portfolio Standard

Public Act 295 of 2008 (PA 295) initially established Michigan's first RPS of 10% through the retirement of renewable energy credits (RECs[19]) equal to 10% of the electric provider's retail sales. Public Act 342 of 2016 (PA 342) amended PA 295 and required electric providers to meet a RPS of 12.5% in 2019 and 2020 and 15% in 2021, which was the final year of statutory RPS requirements up until the amendments from PA 235 as described below. The RPS is applicable to Michigan's rate-regulated electric utilities, cooperative electric utilities, municipal electric utilities, and AES. Electric providers filed initial REPs in 2009 under PA 295.[20] The 74 initial REPs described how each electric provider intended to meet the RPS requirements. Prior to PA 235 and PA 342, PA 295 directed electric providers to file REPs biennially for Commission review. PA 342 directed the Commission to review each electric

[19] The term "renewable energy credit" includes renewable energy credits, Michigan incentive renewable energy credits, and energy waste reduction credits when substituted for renewable energy credits. One megawatt hour of renewable energy creates one credit.

[20] Through the 2021 compliance year, there were 65 electric providers subject to the renewable energy standard including: 7 rate-regulated utilities, 10 cooperative utilities, 40 municipal utilities, and 8 AESs. 15 licensed AESs not currently serving customers are not included in this total.

provider's REP within one year of the PA 342 effective date and eliminated the requirement for biennial REP filings or compliance after 2021.

All of Michigan's seven rate-regulated electric providers continued to maintain a 15% REC portfolio from 2021 through the end of the 20-year plan period initially ending in 2029 under PA 342's REPs. In addition to the portfolio standard, many of Michigan's providers had planned for additional renewable generation growth as part of their IRPs prior to the requirements in PA 235.

Initially, electric providers were directed by Section 51(1) of PA 295 to file annual reports for each plan year beginning with 2009. While this section was repealed in PA 342, the Commission issued Orders in Case No. U-15825 *et al.* on July 27, 2022, requesting that non-rate-regulated electric providers continue to voluntarily submit annual reports through the end of the 20-year plan-period ending in 2029. Rate-regulated electric providers continue to provide reports as part of their annual renewable energy cost reconciliation cases. Michigan electric provider annual reports for 2009 through 2024 are available on the Commission's website.[21]

PA 235 was signed into law in 2023. PA 235 requires electric providers to again meet and maintain a renewable portfolio requirement of 15% through 2029, increasing to 50% from 2030 through 2034, and finally achieve a 60% renewable portfolio in 2035 and maintain it each year thereafter. In addition, PA 235 reinstated the requirement for biennial REP plan filings and a new 20-year planning period through 2045.

The Commission's February 8, 2024, Order in Case No. U-21568 set forth a staggered REP filing schedule. It ordered DTE Electric Company to file no later than July 19, 2024; Consumers Energy to file no later than November 15, 2024; Alpena Power, Indiana Michigan, NSP, UMERC, and UPPCO to file no later than January 17, 2025; and co-operatives, municipally owned utilities, and AES to file no later than February 27, 2025. A list of all electric provider amended REP filings is included as **Appendix B**. While all investor-owned electric provider's amended REPs are contested proceedings, amended REPs of co-operatives, municipally owned utilities, and AESs are reviewed subject to public comment periods. All electric providers are required to file amended REPs every two years. PA 235 Section 28(5) requires that electric providers meet the portfolio requirements by generating renewable electricity, purchasing the renewable energy and capacity, or purchasing RECs without the energy and capacity within the regional transmission organization limiting these REC purchases to 5% of the total renewable portfolio. Combined with the locational requirements contained within PA 235 Section 29(1), the amended RPS will result in a significant amount of new renewable energy resources within Michigan in the coming years.

[21] Link to 2024 electric provider annual reports: https://www.michigan.gov/mpsc/regulatory/electricity/renewable-energy/renewable-energy-filings/2024-renewable-energy-annual-reports.

Voluntary Green Pricing Programs

While PA 342 established a 15% RPS, a growing number of customers had shown interest in additional renewable energy supply beyond the portfolio standard and turned to their electric provider to provide renewable additionality. Prior to the increased RPS requirements established in PA 235, voluntary green pricing (VGP) programs have become a major driver of new renewable energy growth in Michigan. Section 61 of PA 342 (as amended by PA 235) requires each electric provider to "…offer its customers the opportunity to participate in a voluntary green pricing program…". These programs provide customers with the option to match up to 100% of their electric usage with renewable energy. Electric providers whose rates are regulated by the Commission have developed these programs, and the Commission has approved the rates paid by participating customers for renewable energy. After the initial utility VGP case filings were conducted in 2017 and 2018, the Commission established biennial reviews for these cases.

Although VGP programs are intended to provide additionality outside of the RPS and are funded through subscribing participants, both Consumers Energy and DTE Electric have requested and received Commission-approval to utilize the RPS renewable energy cost recovery mechanism for any unsubscribed portion of the VGP program renewable energy supply. This cost recovery mechanism has several advantages over traditional utility cost recovery for these programs, including:

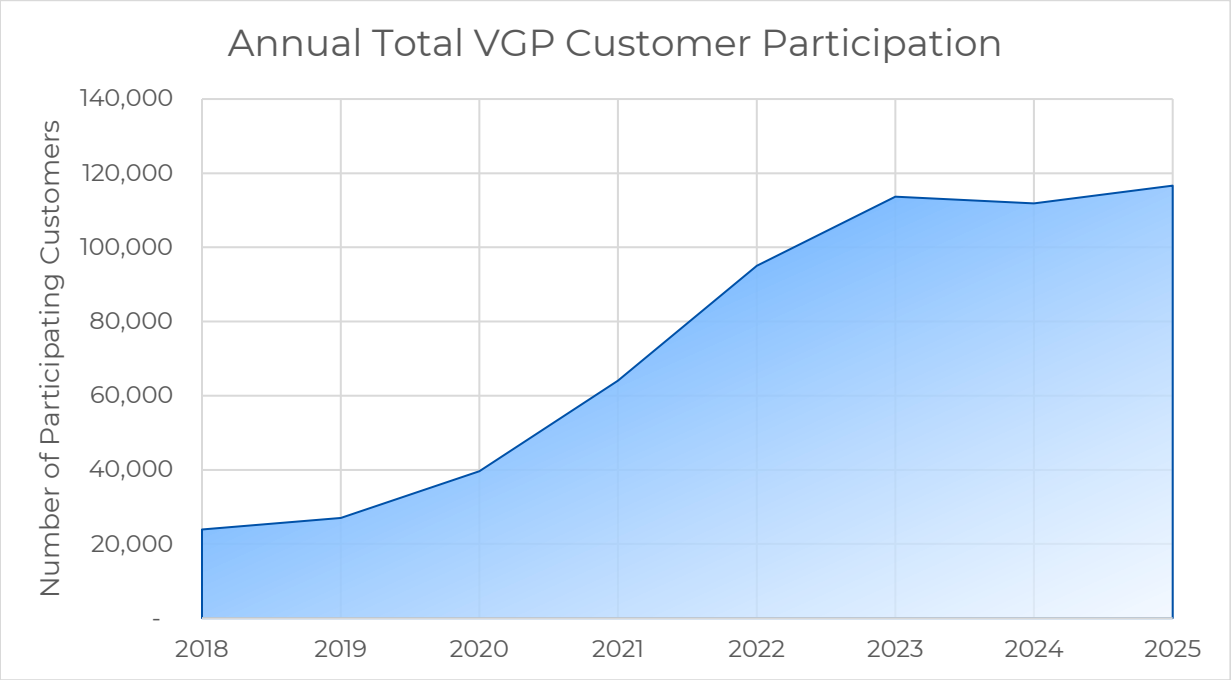
- Under the RPS cost recovery mechanism, utility cost recovery begins when the project achieves commercial operation.

The cost recovery mechanism allows the utility to recover costs according to traditional utility revenue requirement and depreciation accounting methods while the participating customer pays for renewable energy on a levelized cost basis for the life of the project. With the amendments to PA 342 in PA 235, VGP project generation can now offset the proportional load when calculating the electric provider's RPS requirement, although any RECs associated with a customer's participation in a VGP program may not be used for the electric provider's RPS compliance, because, as previously mentioned, the program is intended to promote additionality.

VGP programs in Michigan continue to experience strong growth, particularly from commercial and industrial customers. Most participants in VGP programs are customers of Consumers Energy or DTE Electric. At this time, both electric providers have exhausted the currently available renewable energy supply for their commercial and industrial programs as renewable energy pricing has reached market parity. The demand for VGP program supply is significantly contributing to renewable energy growth, as evidenced in **Figure 2**.[22]

[22] The term "additionality" refers to the renewable generation that is above and beyond any state or federal renewable standards. This graph shows data from the most recently filed annual VGP filings.

Figure 2: Annual Total VGP Customer Participation



*Data for 2025 customer participation is incomplete as of publication.

Utility Integrated Resource Plans

As shown in **Figure 6**, renewable energy costs in Michigan started to show a significant decline from the initial renewable energy supply contracts in 2009 but then normalized around the 2017 time frame. These renewable resources, particularly solar, have continued to be cost-competitive when compared to non-renewable resources. The economic factors and environmental benefits related to renewable generation are key contributors to the selection of renewable energy projects as a supply resource in IRP capacity planning efforts outside of the RPS.

Public Act 341 of 2016 (PA 341), Section 6t, requires utilities to file IRPs every five years that look at anticipated customer electricity needs over the next 5, 10, and 15 years (although many plan out to 20 years and beyond), as well as the appropriate mix of resources to serve those needs. At this point, all rate-regulated electric providers have filed at least one IRP. Subsequent updated IRPs are forthcoming with some electric providers making filings in 2025. Renewable energy, particularly solar, continues to be a key resource in the future supply mix to meet customer electricity needs. Information on IRPs and links to each electric provider's filings is updated on the Commission's web page.[23]

[23] IRP web page: https://www.michigan.gov/mpsc/commission/workgroups/mi-power-grid/phase-iii-integrated-resource-plan-mirpp-filing-requirements-demand-response-study-energy-waste-red.

PURPA Purchases

In 1978, Congress passed the Public Utility Regulatory Policies Act, commonly referred to as PURPA. PURPA requires that electric utilities interconnect with qualifying facilities (QF), purchase energy and capacity at the utility's avoided cost, and sell supplemental, backup, maintenance, and interruptible power to the QF on a non-discriminatory basis. Michigan has seen considerable growth in the number of QFs that have projects, or are planning projects, with investor-owned utilities.

During 2019 and 2020, Consumers had a significant increase in the number of executed PURPA QF Power Purchase Agreements (PPAs) resulting in a vast number of new PURPA resource additions within the state. The surge was the result of a settlement agreement approved on September 11, 2019, in the Commission's Order in Case No. U-20615.[24] In this Order, Consumers agreed to award 170 MWs to PURPA QFs of 20 MW or less at a full avoided cost. Consumers also agreed to award an additional 414 MWs to PURPA QFs of 20 MW or less at the energy-only avoided cost.

In 2020, the Federal Energy Regulatory Commission (FERC) issued Order No. 872, reducing the rebuttable presumption for nondiscriminatory access to power markets from 20 MW to 5 MW for small power production facilities, which includes solar and wind.[25] Since this time, FERC has allowed Consumers Energy, DTE Electric, Indiana Michigan, NSP, UPPCO, and UMERC to terminate the requirement under Section 292.303(a) of PURPA to enter into new contracts or obligations to purchase electric energy and capacity from any small power production qualifying facility (QF) with a net capacity greater than 5 MW. This has resulted in a significant slowdown of PURPA-related contracts filed for the Commission's approval.

Renewable Energy Data

PA 342 required providers to meet the 15% RPS, although it rescinded Section 28 therefore eliminating the statutory requirement to maintain 15% beyond 2021. After 2021, all rate-regulated electric providers and most non-rate-regulated electric providers continued to maintain the 15% standard. While PA 235 again requires that electric providers maintain a 15% standard through 2029, as explained above, these requirements are not in place until approval of amended REPs. It is expected that all amended REPs will be approved by December 2025.

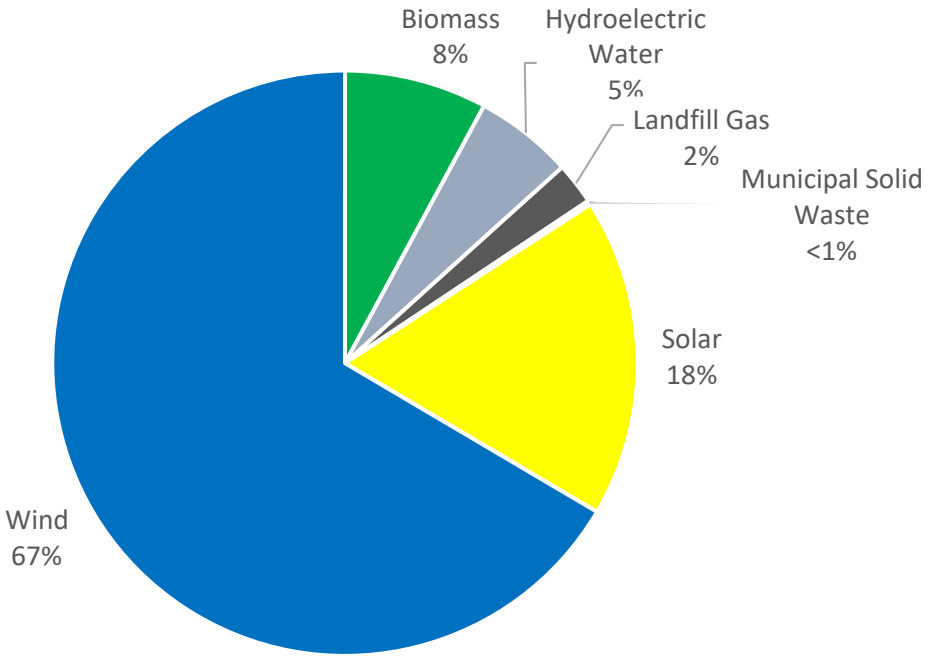
2024 Compliance

A total of 14,216,008 RECs were voluntarily retired in 2024 with wind still being the primary source of renewable energy credits as shown in **Figure 3** below. These REC retirements were calculated by multiplying the applicable electric provider retail sales figure by the 15% compliance percentage. Almost 94% of the RECs used for the 2024 voluntary retirement portfolio were from renewable energy generated in

[24] https://mi-psc.force.com/sfc/servlet.shepherd/version/download/068t0000005XvMxAAK.
[25] https://www.ferc.gov/sites/default/files/2020-07/07-2020-E-1.pdf.

Michigan. Indiana was the source of 1.7%, and just over 4% of RECs came from Iowa, Louisiana, Manitoba, Minnesota, North Dakota, Texas, and Wisconsin.

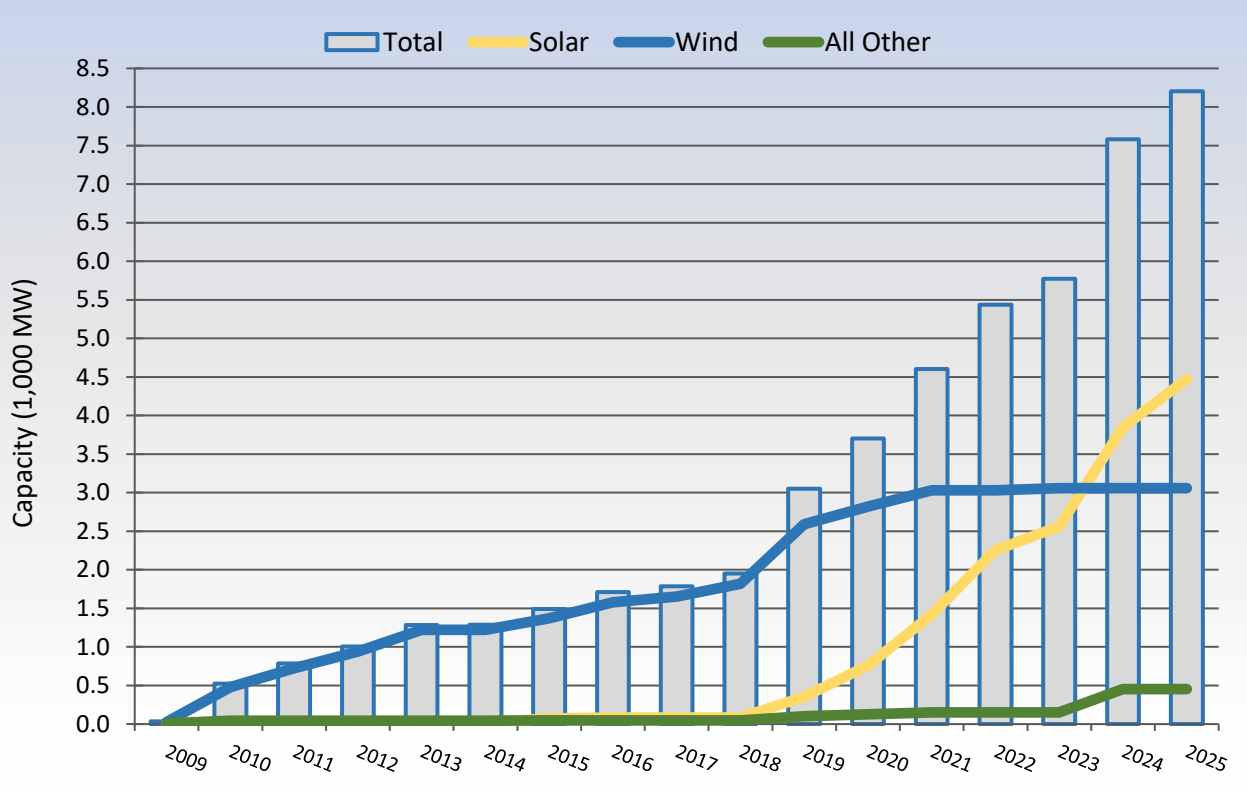
Figure 3: Renewable Energy Generation by Technology Type



While wind made up the bulk of renewable generation in the state, the current growth rate of solar capacity in Michigan far exceeds that of wind. **Figure 4** shows the current growth of renewable capacity based on contracts filed for approval with the Commission as shown in **Appendix A.** Renewable projects developed by non-rate-regulated electric providers, where contracts are not filed for approval with the MPSC, are not reflected in **Figure 4**.[26]

[26] Nearly all AESs are purchasing unbundled renewable energy credits to meet the renewable energy credit portfolio requirements. The terms and conditions of these purchases are unknown.

Figure 4: Cumulative Commission-Approved Renewable Energy Portfolio Capacity

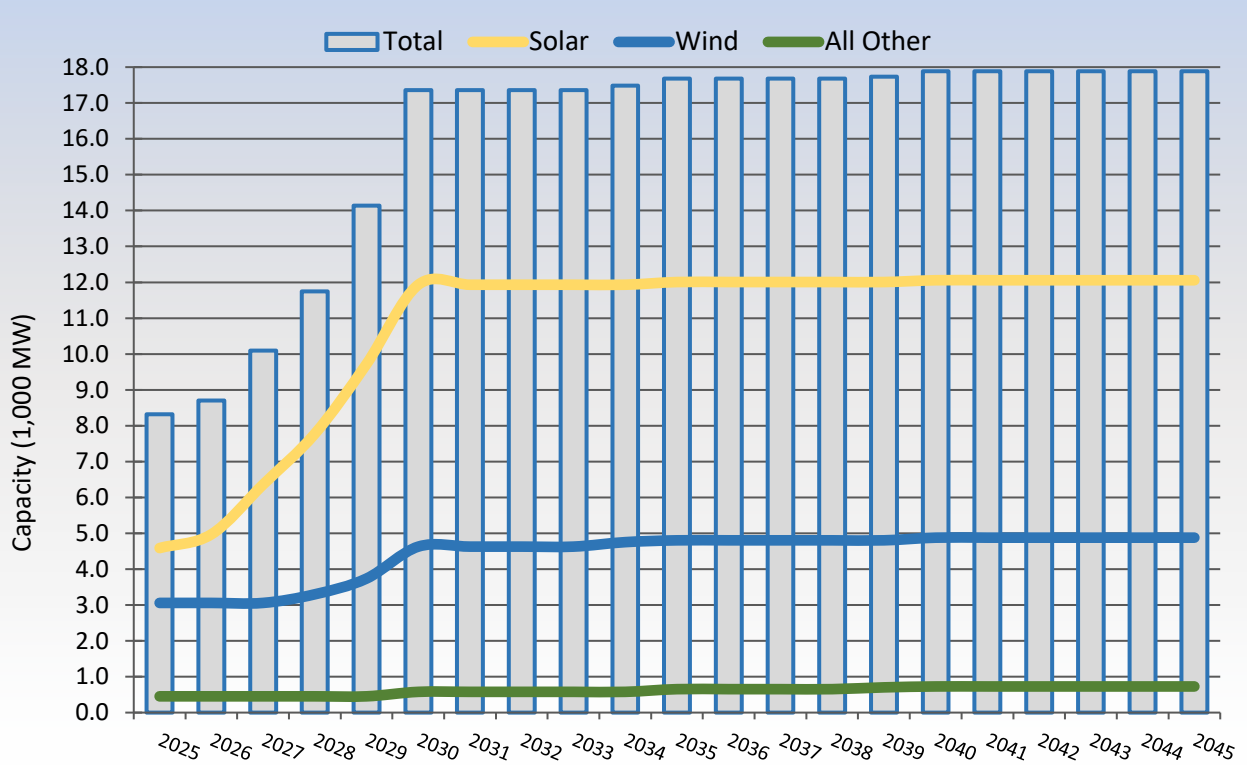


Based on data available through July 2025

Figure 5 shows anticipated capacity additions based on the data provided by rate-regulated utilities in the most recent amended REP filings. As utilities develop additional renewable resources to meet the upcoming 50% RPS requirement, Michigan's renewable generation capacity is expected to increase dramatically in coming years and reach a capacity of approximately 17,800 MW in 2030.[27]

[27] This number is based on projects that have been approved or will be reviewed by the Commission. This does not include projects from electric providers that are not subject to rate-regulation or renewable generation that existed prior to PA 295.

Figure 5: Projected Renewable Energy Capacity



Source: Rate Regulated Electric Provider REP Filings

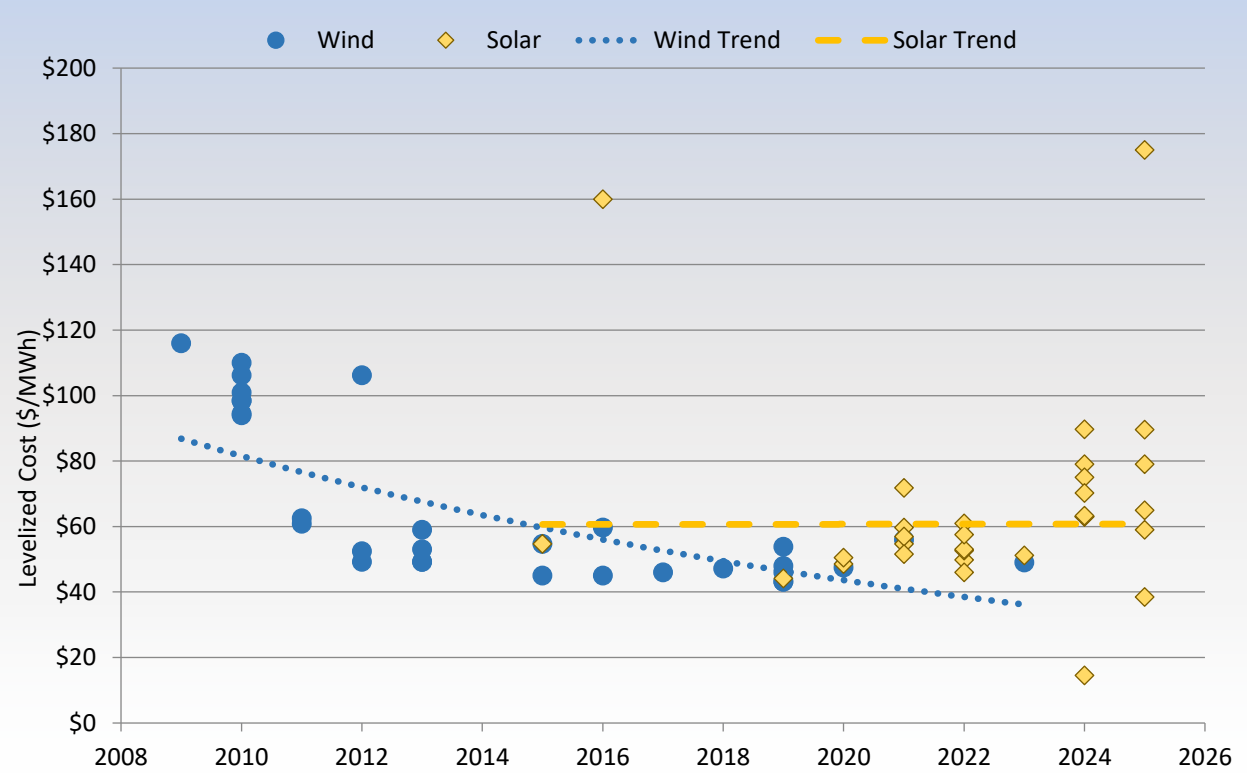
Renewable Energy Cost

While wind generation was the prominent new renewable energy resource to meet the RPS for many years after the passage of PA 295 in 2008, the rapid decrease in solar costs and continuing siting concerns for wind contributed to a transition toward solar starting around the mid-2010s. Solar has become one of the fastest growing resources, not only in Michigan, but throughout the country.

Michigan electric providers have indicated that longer MISO interconnection study delays and local permitting challenges are factors forcing the extension of commercial operation dates, which are further compounded by overall inflation resulting in pricing increases for solar resources in Michigan. PA 233 will help to mitigate some of these siting issues via MPSC backstop siting authority for large renewable energy and storage projects. **Figure 6**[28] shows relatively stable average historical costs from solar and wind generators, though these prices are expected to increase dramatically in the coming years as a result of tax, tariff, and regulatory changes at the federal level.

[28] These levelized costs do not include PURPA contracts as those are mostly based on variable MISO market rates.

Figure 6: Renewable Energy Pricing Trends



Based on data available through July 2025

Pursuant to the former PA 295 Section 37, amended by PA 235 Section 28, renewable energy power purchase and REC-only agreements entered into by any electric provider whose rates are regulated by the Commission must be submitted to the Commission for approval. **Appendix A** has been expanded to include PURPA, VGP, and utility IRP contracts in addition to Act 295 renewable energy REP contracts approved by the MPSC.

Commission staff continues to review competitive bidding activities through process audits for all contracts submitted to the Commission for approval. The purpose and design of the audits are to ensure that the utilities followed the processes and procedures previously outlined in the Commission's December 4, 2008, Temporary Order in MPSC Case No. U-15800, Attachment D[29] and pursuant to the former Section 33 of PA 295. On August 20, 2021, the Commission opened a docket in Case No. U-20852 and directed Staff to convene a competitive bidding collaborative, referred to as the Competitive Procurement Workgroup. Rate-regulated utilities and other stakeholders participated in the Competitive Procurement Workgroup to develop recommended competitive bidding guidance that aligns with the comprehensive planning processes being developed through the MI Power Grid

[29] https://mi-psc.force.com/s/filing/a00t0000005pa5hAAA/u158000001.

collaborative[30]. The Commission's objective for the Competitive Procurement Workgroup was to ensure strong, technology-neutral market responses and value for ratepayers through transparency, non-discriminatory access, certainty, and fairness in bidding processes. On September 9, 2021, the Commission adopted new Competitive Procurement Guidelines for rate-regulated electric utilities in Case No. U-20852.[31] These new guidelines have been implemented for all contracts approved by the Commission since their adoption. In keeping with the spirit of the temporary Order in Case No. U-15800, the guidelines continue to support the Staff audit process.

Distributed Generation and Legacy Net Metering

The Distributed Generation (DG) and Legacy Net Metering programs (collectively DG program) enable Michigan's electric provider and AES customers to install on-site renewable energy electric generation projects to meet some or all of their electric energy needs and reduce their electric bills.

In addition to increasing the RPS, PA 235 included several key changes to the DG program. These changes include the following:

1. Section 173(2) increases the eligible participant generation capacity from 100% of the customer's electricity consumption for the previous 12 months to 110%.
2. Section 173(3) increases the program cap from 1% of a utility's average in-state peak load for the previous 5 years to 10%. Additionally, the 10% limit under this subsection is to be allocated as follows: (a) Not less than 50% for customers with an eligible electric generator capable of generating 20 kilowatts (kW) or less; (b) Not more than 50% for customers with an eligible electric generator capable of generating more than 20 kW but not more than 550 kW.
3. Section 173 removes the generation meter requirement for DG projects.
4. Section 177(2) allows the outflow credit to offset the total bill rather than being limited to only power supply charges.[32]

Project size is limited to 110% of the customer's annual electricity consumption, up to a maximum of 550 kW. Customers reduce electricity purchases from the utility by using their generated electricity "behind the meter" and receive a credit for excess generation.

On July 23, 2024, the Commission issued an Order in docket number Case No. U-21569 providing guidance on the provisions of Public Act 235 of 2023, granting a waiver from certain provisions of the Interconnection and Distributed Generation Standards, and directing affected utilities to file revised distributed generation tariffs

[30] Competitive bidding guidelines: https://www.michigan.gov/mpsc/commission/workgroups/mi-power-grid/competitive-procurement.
[31] https://mi-psc.force.com/sfc/servlet.shepherd/version/download/068t000000TTDJAAA5.
[32] https://www.legislature.mi.gov/documents/2023-2024/publicact/pdf/2023-PA-0235.pdf.

in new dockets no later than September 20, 2024.[33] On October 13, 2024, the Commission issued an order approving the proposed changes to the DG tariffs which incorporated the changes included in PA 235.[34]

DG Program for Projects 20 kW and Smaller (Certified Equipment)

The 20 kW and under DG program is available to any customer meeting the generator size requirements and using an Underwriters Laboratory (UL) 1741 certified inverter. Typically, residential customers would fit within this size level.

Program features:

- Billing based on an inflow and outflow mechanism for customers of utilities with the new DG tariff in place.[35] Inflow represents kWh delivered by the utility and is billed at the full retail rate. Outflow represents kWh generated by the customer but not used on-site. To date, the outflow credit has been equal to the power supply component of the full retail rate and may have transmission costs subtracted.
- A generator meter is available at cost, if requested by the customer. (The generator meter allows the customer to monitor the amount of generation. Utilities are not obligated to read a customer's generator meter.)
- A maximum program and interconnection application processing fee of $50. Customers pay all interconnection costs.
- Not less than 5% of a utility's program capacity of 10% based on peak load for the previous 5 years is for customers with an eligible electric generator capable of generating 20 kW or less.

DG Program for Projects over 20 kW and as Large as 550 kW

This DG program for larger generators is available to any customer meeting the generator size requirements. Typically, these customers would be commercial, small industrial, or institutional customers.

Program features:

- Billing based on an inflow and outflow mechanism. Inflow represents kWh delivered by the utility and is billed at the full retail rate. Outflow represents kWh generated by the customer but not used on-site. To date, the outflow credit has been equal to the power supply component of the full retail rate and may have transmission costs subtracted.

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[33] https://mi-psc.my.site.com/sfc/servlet.shepherd/version/download/0688y00000EgwEgAAJ.
[34] https://mi-psc.my.site.com/sfc/servlet.shepherd/version/download/068cs00000f496lAAA.
[35] For the legacy net metering program, the billing is based on net usage with the credit for excess generation equal to the full retail rate.

- A maximum program and interconnection application processing fee of $50. Customers pay all interconnection costs.
- Not more than 5% of a utility's program capacity of 10% based on peak load for the previous 5 years is for customers with an eligible electric generator capable of generating more than 20 kW but not more than 550 kW.

Distributed Generation Program Data

Customer participation in the DG program increased from 21,609 customers and 21,845 installations in the 2023 Staff report to 23,910 customers and 24,150 installations through 2024. A complete list of projects by electric provider, ZIP code, type and size is available on the Commission's website.[36] As of the release of this report, the total capacity of DG program installations was approximately 222,464 kW, an increase from 189,680 kW over the previous DG Report.[37] As shown in **Figure 7**, program participation continues to increase each year.

In Case No. U-18383, the Commission ordered the implementation of inflow/outflow tariffs for utilities in any rate case filed after June 1, 2018. A summary of activities related to the DG tariff implementation is provided in **Table 1**.

Table 1: Summary of Distributed Generation Program Tariff Implementation

Utility	Beginning DG Program Enrollment Date	Case Number approving DG program Cap
Alpena Power	January 1, 2022	U-21045
Consumers Energy	January 1, 2021	U-21124
DTE Electric	May 9, 2019	U-21193
Indiana Michigan	February 1, 2020	U-20359
NSP	January 1, 2023	U-21097
UMERC	January 1, 2025	U-21541
UPPCO	May 24, 2019	U-20995

Table 3 summarizes DG program capacity and category cap by electric provider for all program sizes. Pursuant to PA 235, DG programs are allocated into two size categories. Projects up to 20 kW are available to new customers until the program size reaches at least 5% of the electric provider's average in-state peak load for the

[36] https://www.michigan.gov/mpsc/-/media/Project/Websites/mpsc/regulatory/electric/ren-energy/2024-DG-Program-Data.xlsx.
[37] https://www.michigan.gov/mpsc/-/media/Project/Websites/mpsc/regulatory/reports/RE-DG/2023-Renewable_Energy_Distributed_Generation_Legacy_Net_Metering_Report.pdf.

preceding five calendar years or the voluntarily increased program size offered by the electric provider. DG projects greater than 20 kW and 550kW are available to new customers until the program size reaches up to 5% of the electric provider's average in-state peak load for the preceding five calendar years or the voluntarily increased program size offered by the electric provider. **Table 3** shows the remaining capacity in both DG categories for each regulated utility. To date, the only AESs with customers participating in the DG program are Constellation New Energy with a total of 19 customers. AES DG program customers are included in utility reporting and are not shown separately on **Table 2**.

Michigan's cooperative electric providers are not required to offer the statewide DG program pursuant to statute. However, many of these electric providers have established programs for customer distributed generation and voluntarily provide annual reporting data to the MPSC Staff for inclusion in this report.

Table 2: Distributed Generation Program Data

Rate-Regulated Utilities (Act 235 Statewide DG Program)	20 kW and Less Nameplate Capacity (kW)	>20 kW to 550 kW Nameplate Capacity (kW)
Alpena	**163**	
Consumers Energy	**77,851**	**41,614**
DTE Electric	**67,616**	**15,563**
Indiana Michigan	**4,831**	**1,649**
UMERC	**534**	**114**
UPPCO	**2,317**	**312**
Xcel	**96**	
Rate-Regulated Total	**153,408**	**59,253**
Member-Regulated Cooperative Utilities with Programs for Small Scale Distributed Generation		
Alger Delta	**155**	**90**
Cherryland	**94**	
Cloverland	**457**	**417**
Great Lakes Energy	**3,917**	**525**
Homeworks Tri-County	**1,584**	**93**
Midwest	**1,792**	
Ontonagon	**206**	
Presque Isle	**143**	
Thumb	**290**	**40**
Member-Regulated Total	**8,639**	**1,165**
Total	**162,047**	**60,417**

Rate-regulated utility data is through 2024. All other data is through 2022.
Member-regulated cooperatives are not required to offer the statewide DG program. The data provided reflect voluntary programs. Alger Delta, Cherryland, Ontonagon, Presque Isle, and Thumb data are from previous reporting years.
Alternative electric supplier program data is included in utility reporting.

Source: 2024 Electric Provider Annual Program Reports, Case Nos. U-15787[38] and U-20890,[39] and updated Staff surveys.

[38] https://mi-psc.my.site.com/s/case/500t0000008efMtAAI/.
[39] https://mi-psc.my.site.com/s/case/500t000000qsg3uAAA/.

Table 3: Distributed Generation Cap Space Remaining

Rate-Regulated Utilities (Act 235 Statewide DG Program)

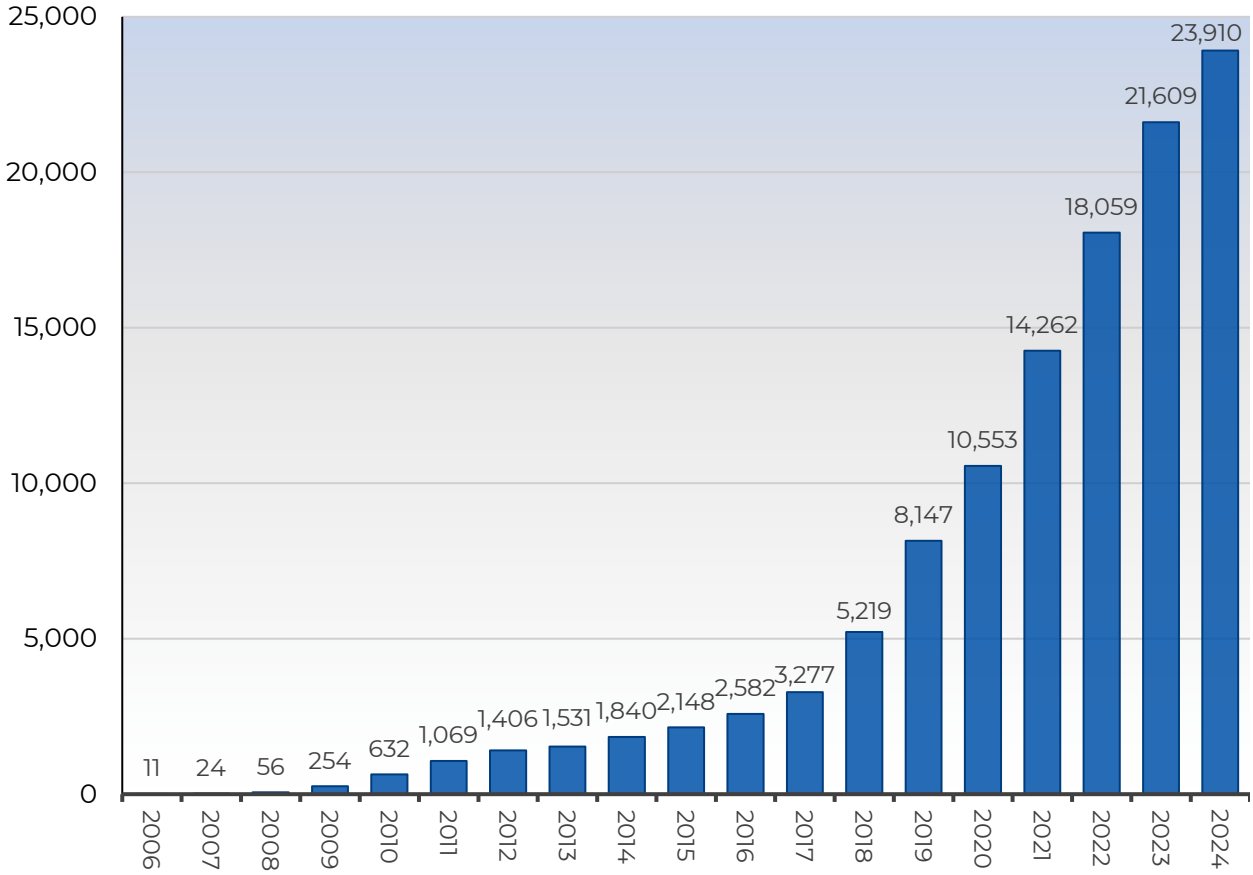
Company	20 kW and Less Allocated Amount (kW)	Current 20 kW and Less Capacity	20 kW and Less Remaining Space	>20 kW to 550 kW Allocated Amount (kW)	Current >20 kW to 550 kW Capacity	>20 kW to 550 kW Remaining Space
Alpena	**3,112**	**163**	**95%**	**3,112**		**100%**
Consumers	**375,641**	**77,851**	**79%**	**37,564**	**41,614**	**89%**
DTE Electric	**539,590**	**67,616**	**87%**	**539,590**	**15,563**	**97%**
I&M	**32,222**	**4,831**	**85%**	**32,222**	**1,649**	**95%**
UMERC	**14,509**	**534**	**96%**	**14,509**	**114**	**99%**
UPPCO	**7,266**	**2,317**	**68%**	**7,266**	**312**	**96%**
Xcel	**1,230**	**96**	**92%**	**1,230**		**100%**

With the change from the legacy net metering program, which credited excess generation at the full retail rate, to the DG program, which credits outflow generation at a rate less than the full retail rate, it is becoming increasingly advantageous for customers to utilize as much of the energy they produce on-site as possible. Given the reduced outflow credit value and the declining costs of battery storage, participants are increasingly interested in pairing their generation with battery storage. The scope of the annual reporting form was expanded in 2021 to gather data about whether customers were participating in the legacy net metering or DG programs and to collect customer battery storage information. Through 2024, electric providers reported 4,323 DG program customers with battery storage for a total battery storage capacity of 26,625 kW. A summary of battery storage capacity by utility is provided in **Table 4**. The data within the table represents all Michigan utilities that report storage data. However, Alpena, UPPCO, and Xcel Energy reported zero storage through 2024.

Table 4: Michigan Distributed Generation Program Customers with Battery Storage

Company	No. of Customers	Battery Storage Capacity (kW)
Consumers Energy	**1,521**	**9,205**
DTE Electric	**2,678**	**16,426**
Indiana Michigan	**116**	**810**
UMERC	**8**	**184**
Total	**4,323**	**26,625**

Figure 7: Total Distributed Generation Program Customers



Source: 2024 Electric Provider Annual Program Reports, Case Nos. U-15787[40] and U-20890[41] and updated Staff surveys.

The Commission continues to see significant interest in the DG program in contested cases. Staff and the Commission will continue to actively participate in actions to craft the future of DG programs in Michigan.

Conclusion

Pursuant to the new 2023 legislative package, Michigan with be among the leading states in the nation for carbon reduction and renewable energy generation. The combined efforts of the electric providers, renewable energy project developers, communities hosting renewable energy projects, renewable energy advocates, and many others have contributed to the effective implementation of Michigan's RPS to date. The RPS can be credited with the development and planned development of over 17.8 gigawatts of renewable energy projects through 2045 and has paved the

[40] https://mi-psc.force.com/s/case/500t0000008efMtAAI/.
[41] https://mi-psc.my.site.com/s/case/500t000000qsg3uAAA/.

way for utilities to continue developing and contracting for renewable energy well into the future to meet Michigan's energy needs and replace aging generating units.

In addition to updating Michigan's generation units, its energy infrastructure, in many cases, is past its useful life. It is necessary to make significant investments to maintain reliability and accommodate load growth. Michigan electric providers have proposed significant distribution upgrades over the next five years to rebuild much of this aging infrastructure. DTE Electric has proposed $9.278 billion in upgrades through 2028[42] while Consumers Energy has proposed $8.3 billion through 2029[43]. Additionally, MISO has forecasted, through its Long-Range Transmission Planning Tranche 1, approximately $10.380 billion[44] in transmission investments where Michigan will be responsible for approximately 20% of these costs on a load share basis.[45]

PA 295 was the keystone for providers to gain experience with renewable generation and DG resources and allowed for the continued development of renewable energy and DG in Michigan electric providers' forward planning processes and PA 235 requirements to help update Michigan's generating fleet and offset load growth. DG programs have allowed Michigan customers a means to offset a portion of their electric bills and helped to reduce electric providers' need to provide energy resources during the times that customer's DG resources are generating. There remains significant interest and growth in these programs and the Commission will continue to monitor utility program sizes with the new 10% cap increase.

The Commission looks forward to working with electric providers, interested parties, and the public to continue to implement the new legislative requirements in a cost-effective and prudent manner.

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[42] https://mi-psc.my.site.com/sfc/servlet.shepherd/version/download/0688y00000A4YUXAA3 Page 55.
[43] https://mi-psc.my.site.com/sfc/servlet.shepherd/version/download/068cs00000s6cI9AAI Exhibit A-129, Page 10 of 165.
[44] MISO LRTP Workshop: https://cdn.misoenergy.org/20220325%20LRTP%20Workshop%20Item%2002%20Tranche%201%20Portfolio%20and%20Process%20Review623633.pdf Page 8.
[45] MISO MTEP Report: https://cdn.misoenergy.org/MTEP21%20Addendum-LRTP%20Tranche%201%20Report%20with%20Executive%20Summary625790.pdf.

Appendix A: Renewable Contracts Approved by MPSC

Company	Project Name / Seller	County	County Notes	State	Quantity MW	Quantity Notes	Price $/MWh	Price Notes	Term	Renewable Energy Type	Contract Type	Current Commercial Operation Date	Previous Commercial Operation Date	Docket #	MPSC Approval Date
Consumers	Michigan Wind 1 (fka Noble Thumb Wind Park)	Huron		MI	57				10 years	Wind				U-14626	10/18/2005
DTE	Heritage Sustainable Energy Stoney Corners Wind Farm		Missaukee & Osceola	MI	14		$116.00/MWh	LCOE	20 years	Wind	REP	12/21/2009		U-20604	4/30/2009
Alpena	Consumers Energy		Various	MI		"Bulk of RECs needed to meet the RPS"	Consumers Energy Company's Average Cost of RECs	REC pricing	20 years	Misc.	REP	8/4/2009		U-15805	9/15/2009
I&M	Fowler Ridge Wind Farm II		Benton County, IN	IN	50	MW (7.5MW for MI)	Redacted		20 years	Wind	REP	2/15/2010		U-20604	9/15/2009
Consumers	Elk Rapids Hydro Electric	Antrim		MI	0.7		$121.31/MWh	LCOE	10 years	Hydroelectric	REP	7/11/2009		U-18111	10/13/2009
Consumers	Freemont Community Digester	Newaygo		MI	3.1		$139.35/MWh	LCOE	20 years	Anaerobic	REP	11/11/2012		U-20604	10/13/2009
Consumers	NANR – Lennon	Shiawassee		MI	1.6		$137.27/MWh	LCOE	20 years	Landfill Gas	REP	12/31/2010			10/13/2009
Consumers	Scenic View Dairy	Allegan		MI			$138.17/MWh	LCOE	7 years	Anaerobic	REP	7/11/2009		U-20165	10/13/2009
Consumers	WM Renewable Energy - Northern Oaks Landfill	Clare		MI	1.6		$122.39/MWh	LCOE	20 years	Landfill Gas	REP	11/11/2010			10/13/2009
Consumers	Zeeland	Ottawa		MI	1.6		$122.20/MWh	LCOE	7 years	Landfill Gas	REP	7/11/2009			10/13/2009
DTE	Sterling Planet		Various	MI		Firm 2,500,000 RECs	of $12.46/REC	REC pricing	10 years	Misc.	REP	10/1/2009		U-20838	12/1/2009
DTE	Heritage Sustainable Energy Stoney Corners Wind Farm		Missaukee & Osceola	MI	12.2		Unchanged from original contract		20 years	Wind	REP	1/1/2011		U-20604	12/1/2009
DTE	UPPCO		Various	MI		Firm 500,000 RECs	Combined average price	REC pricing	7 years	Hydroelectric	REP	10/1/2009		U-21361	12/1/2009
DTE	Nova Consultants (SolarCurrents)		Various	MI	3		Up to $18 Million		Company-owned	Solar	REP	12/31/2010			3/2/2010
DTE	Boyce Hydro		Various	MI		Firm 210,000 RECs w/additional 112,000 RECs dependent on generation	$7.75/ REC	REC pricing	7 years	Hydroelectric	REP	3/16/2010		U-15806	4/27/2010
Consumers	Blissfield Wind (Beebe Wind)	Gratiot		MI	81		$100.88/MWh	LCOE	20 years	Wind	REP	12/31/2012	7/5/1905	U-15806	7/27/2010
Consumers	Harvest II Wind	Huron		MI	59.4		$98.38/MWh	LCOE	20 years	Wind	REP	12/31/2012			7/27/2010
Consumers	Michigan Wind 2	Sanilac		MI	90		$94.00/MWh	LCOE	20 years	Wind	REP	6/30/2012		U-20838	7/27/2010
Consumers	WM Renewable Energy - Pine Tree Acres	Macomb		MI	12.8		$98.75/MWh	LCOE	20 years	Landfill Gas	REP	6/30/2012			7/27/2010
DTE	L'Anse Warden Electric Company	Baraga		MI	17		$98.94/MWh		20 years	Biomass	REP	7/1/2010		U-20604	8/10/2010
DTE	WM Renewable Energy - Eagle Valley Landfill	Oakland		MI	3.2		Combined average of	LCOE	20 years	Landfill Gas	REP	6/1/2011		U-21081	8/10/2010
DTE	Gratiot County Wind	Gratiot		MI	89.6		$94.43/MWh	LCOE	20 years	Wind	REP	5/1/2012		U-20604	9/14/2010
Consumers	Heritage Garden Wind Farm I	Delta		MI	20		$106.20/MWh	LCOE	20 years	Wind	REP	12/31/2012	1/1/2012		11/19/2010
Consumers	Heritage Stoney Corners Wind Farm II		Missaukee & Osceola	MI	12.3		$98.50/MWh	LCOE	20 years	Wind	REP	1/1/2012		U-20604	11/19/2010
Consumers	Lake Winds Energy Park U-15805 eDocket files #251-256	Mason		MI	100.8		$110.00/MWh	LCOE	Company-owned	Wind	REP	12/31/2012		U-20604	12/2/2010
Consumers	Experimental Advanced Renewable Program		Various	MI	1		Commercial $0.45/KWh Residential $0.65/KWh	Tariffed Program	12 years	Solar	REP	5/1/2010		U-15805	12/21/2010
DTE	Nova Consultants (SolarCurrents)		Various	MI			Unchanged from original contract		Company-owned	Solar	REP	12/31/2011		U-20765	12/21/2010
DTE	Blue Water Renewables - Smiths Creek Landfill	St. Clair		MI	3.2		$99.00/MWh	LCOE	20 years	Landfill Gas	REP	12/31/2011		U-15805	1/20/2011
Consumers	Experimental Advanced Renewable Program		Various	MI	0.9877		Commercial $0.375/KWh Residential $0.525/KWh	Tariffed Program	12 years	Solar	REP	Varies		U-20496	5/10/2011
DTE	Gratiot County Wind (Amendment)	Gratiot		MI	12.8		Unchanged from original contract		Company-owned	Wind	REP	12/31/2012		U-20604	5/10/2011
DTE	L'Anse Warden Electric Company	Baraga		MI		110,374 RECs	$11.98 (Average of 4 REC/ACEC Contracts)	REC pricing	Amendment Acquiring Vintage RECs	Biomass	REP	7/1/2010		U-20604	8/25/2011
DTE	Tuscola Bay Wind. LLC		Tuscola, Bay, & Saginaw	MI	120		Up to $60.90/MWh	LCOE	20 years	Wind	REP	12/31/2013		U-21361	8/25/2011
I&M	Wildcat I Wind Farm, LLC		Madison and Tipton Counties, IN	IN	100	MW (60MW for MI)	Redacted		20 years	Wind	REP	12/31/2012		U-21193	8/25/2011
DTE	Thumb Wind (McKinley, Minden, and Sigel)		Huron & Sanilac	MI	110.4		$61-$64/MWh	LCOE	Company-owned	Wind	REP	12/31/2010		U-20604	9/13/2011
DTE	SolarCurrents		Various	MI	12		Up to $48 Million	Tariffed Program	Company-owned	Solar	REP	12/31/2015		U-20604	11/10/2011
DTE	Michigan Waste Energy, Inc	Wayne		MI		Up to 65,000 RECs/Year	$7.00/REC	REC pricing	13 years	Incinerator	REP	6/13/1905			12/6/2011
Consumers	Heritage Stoney Corners Wind Farm I (Phase 3)		Missaukee & Osceola	MI	8.35		$106.20/MWh	LCOE	20 years	Wind	REP	1/1/2012		U-20604	1/26/2012

Company	Project Name / Seller	County	County Notes	State	Quantity MW	Quantity Notes	Price $/MWh	Price Notes	Term	Renewable Energy Type	Contract Type	Current Commercial Operation Date	Previous Commercial Operation Date	Docket #	MPSC Approval Date
DTE	Echo Wind	Huron		MI	110		$52.50/MWh	Staff estimate	Company-owned	Wind	REP	12/31/2013		U-15805	9/11/2012
DTE	Tuscola Wind II, LLC		Tuscola & Bay	MI	100		$49.25/MWh	LCOE	20 years	Wind	REP	12/31/2013		U-20604	10/31/2012
DTE	SolarCurrents Phase II		Various	MI	2		$0.13/W $0.02/kWh-$0.20/W $0.03/kWh	Tariffed Program	Through 8/31/2029	Solar	REP	Varies		U-20604	11/16/2012
DTE	Pheasant Run Wind II, LLC	Huron		MI	74.8		Up to $49.25/MWh	LCOE	Company-owned "Brookfield"	Wind	REP	12/31/2014		U-20604	5/17/2013
DTE	Pheasant Run Wind, LLC	Huron		MI	74.8		Up to $49.25/MWh	LCOE	20 years	Wind	REP	12/31/2014		U-20604	5/17/2013
Consumers	General Electric Company									Wind					6/28/2013
Consumers	ABB Transformers									Wind				U-15806	9/10/2013
Consumers	Barton Malow Company									Wind				U-15806	9/10/2013
DTE	Big Turtle Wind Farm, LLC	Huron		MI	20		$53/MWh	LCOE	20 years	Wind	REP	Expected 2014		U-15805	9/24/2013
Consumers	Cross Winds	Tuscola		MI	111		$59.00/MWh	LCOE	Company-owned	Wind	REP	12/31/2014		U-15805	9/24/2013
UMERC	Cadillac Renewable Energy. LLC		Various	MI		REC-Only Redacted	Redacted		Redacted	Biomass	REP	Redacted		U-16584	1/23/2014
Consumers	Experimental Advanced Renewable Program Phases 10-15		Various	MI	1.2		Non-Residential $0.199-0.209/kWh Residential $0.243-0.249/kWh	Tariffed Program	Up to 15 years	Solar	REP	Varies		U-18232	5/2/2014
DTE	Inovateus Solar, LLC. (SolarCurrents)	Wayne		MI	0.504		$3,741/kW	Average cost	Company-owned	Solar	REP	4/1/2015		U-20604	7/8/2014
DTE	Rudolf Libbe, Inc	Wayne		MI	0.75		$3,741/kW	Average cost	Company-owned	Solar	REP			U-20604	7/8/2014
Consumers	Experimental Advanced Renewable Program Phases 16-21		Various	MI	1.4		$0.199-$0.243	Tariffed Program	Up to 15 years	Solar	REP	Varies		U-20496	4/23/2015
Consumers	Experimental Advanced Renewable Program Anaerobic Digester		Various	MI	2.6		$86/MWh or $76.39/MWh-106.39/MWh	Tariffed Program	20 years	Anaerobic	REP	Varies		U-20496	4/23/2015
Consumers	Geronimo Huron Wind, LLC (Apple Blossom)	Huron		MI	100		Less than $45/MWh	LCOE	Up to 15 years	Wind	REP	7/9/1905			11/19/2015
I&M	Clean Energy Solar Pilot Project (CESPP)		Various			15.7 MW (4.6 MW in MI)	$42.48/MWh	LCOE	20 years	Solar	REP	10/1/2016		U-16582	12/11/2015
DTE	Innovatus (DTE Solar)				50.28		$54.75/MWh	LCOE	Company-owned	Solar	VGP	10/31/2016		U-20604	12/11/2015
DTE	Pinnebog Wind	Huron		MI	50		$54.75/MWh	LCOE	Company-owned	Wind	VGP	12/9/2016		U-15805	12/11/2015
Consumers	Experimental Advanced Renewable Program Phases 26-35		Various	MI	2.2		$0.199-$0.243/kWh	Tariffed Program	Up to 15 years	Solar	REP	Varies		U-18232	2/11/2016
Consumers	Solar Gardens		Various	MI	10		$160.00/MWh	LCOE	Company-owned	Solar	VGP	Starting with 4/18/2016		U-20604	3/29/2016
Consumers	Cross Winds II	Tuscola		MI	44		$45/MWh	LCOE	Company-owned	Wind	VGP	12/31/2017		U-15805	12/20/2016
DTE	Pine River Wind Energy, LLC		Gratiot & Isabella	MI	161.3		$59.67/MWh	LCOE	Company-owned "Pine River"	Wind	REP	12/31/2018		U-20896	12/20/2016
Consumers	Cross Winds III	Tuscola		MI	76		$46/MWh	LCOE	Company-owned	Wind	VGP	12/31/2019			3/10/2017
DTE	Polaris Wind Park	Gratiot		MI	168		$47.18/MWh	LCOE	Company-owned "Polaris "	Wind	REP	4/23/2020		U-20165	4/12/2018
Consumers	Gratiot Farms	Gratiot		MI	150		$46/MWh	LCOE	Company-owned	Wind	REP	12/1/2020			2/7/2019
Consumers	Lincoln Plant	Alcona		MI	18		See contract		8 years	Biomass	PURPA	4/18/2019		U-20604	4/18/2019
Consumers	McBain Plant	Missaukee		MI	18		See contract		8 years	Biomass	PURPA	4/18/2019		U-18232	4/18/2019
Consumers	Hillman	Montmorency		MI	16.3		See contract		3 years	Biomass	PURPA	7/2/2019		U-20604	7/2/2019
DTE	Fairbanks Wind Park	Delta		MI	72.45		$53.78/MWh	LCOE	Company-owned	Wind	VGP	1/7/2022		U-18232	7/18/2019
DTE	Isabella I Wind Farm	Isabella		MI	197		$43.20/MWh	LCOE	Company-owned	Wind	VGP	6/1/2021		U-20604	7/18/2019
DTE	Isabella II Wind Farm	Isabella		MI	186		$43.20/MWh	LCOE	Company-owned	Wind	VGP	6/1/2021		U-20604	7/18/2019
Consumers	River Fork Solar	Calhoun		MI	100		$44.16/MWh	LCOE	20 years	Solar	REP	3/31/2022 - 11/30/2022; 3/31/2022	5/31/2021	U-21094	9/26/2019
Consumers	LaBarge Hydro Plant	Kent		MI	0.8		See contract		20 years	Hydroelectric	PURPA	9/26/2019		U-20604	9/26/2019
Consumers	Rathbun Plant	Saginaw		MI	1.6		See contract		20 years	Landfill Gas	PURPA	9/26/2019		U-20713	9/26/2019
Consumers	Belding Plant	Ionia		MI	0.3		See contract		20 years	Hydroelectric	PURPA	1/1/2019		U-15806	11/14/2019
Consumers	Mackinaw City Plant	Emmet		MI	1.8		See contract		Expired	Wind	PURPA	6/1/2019		U-20604	11/14/2019
Consumers	13 Mile Solar, LLC	Calhoun		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	8/18/2020		U-14626	12/6/2019
Consumers	Angola Solar, LLC	Branch		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	8/18/2020		U-15805	12/6/2019
Consumers	Bingham Solar, LLC	Clinton		MI	20		See contract	Full avoided cost	20 years	Solar	PURPA	11/30/2020		U-15805	12/6/2019
Consumers	Bullhead Solar, LLC	Hillsdale		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	10/15/2020		U-15806	12/6/2019
Consumers	Captain Solar, LLC	Genesee		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	8/3/2020		U-15806	12/6/2019
Consumers	Coldwater Solar, LLC	Genesee		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	8/3/2020		U-16582	12/6/2019
Consumers	Geddes 1 Solar, LLC	Saginaw		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	10/15/2020			12/6/2019
Consumers	Geddes 2 Solar, LLC	Saginaw		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	10/15/2020		U-20604	12/6/2019
Consumers	Good Fruit Storage, LLC	Ottawa		MI	0.179		See contract	LMP energy rates, PRA capacity rates	10 years	Solar	PURPA	9/30/2020		U-20604	12/6/2019

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Consumers	Hazel Solar, LLC	Montcalm		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	8/18/2020		U-20604	12/6/2019
Consumers	Hendershot Solar, LLC	Lenawee		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	8/18/2020			12/6/2019
Consumers	Interchange Solar, LLC	Genesee		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	8/18/2020		U-20604	12/6/2019
Consumers	Jack Francis Solar, LLC	Genesee		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	8/3/2020		U-20604	12/6/2019
Consumers	Lake City Solar	Missaukee		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	9/30/2023		U-20604	12/6/2019
Consumers	Macbeth Solar, LLC	Muskegon		MI	20		See contract	Full avoided cost	20 years	Solar	PURPA	12/24/2021		U-20604	12/6/2019
Consumers	May Shannon Solar, LLC	Genesee		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	8/3/2020		U-20604	12/6/2019
Consumers	Morey Road Solar	Missaukee		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	9/30/2023			12/6/2019
Consumers	Stoneheart Solar, LLC	Saginaw		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	12/8/2020			12/6/2019
Consumers	Surrey Road Solar	Clare		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	9/30/2023			12/6/2019
Consumers	Temperance Solar, LLC	Monroe		MI	20		See contract	Full avoided cost	20 years	Solar	PURPA	11/30/2020			12/6/2019
Consumers	Woodley Solar, LLC	Branch		MI	0.821		See contract	Full avoided cost	20 years	Solar	PURPA	12/8/2020			12/6/2019
Consumers	Workman Road Solar	Missaukee		MI	2		See contract	Full avoided cost	20 years	Solar	PURPA	9/30/2020			12/6/2019
Consumers	Crescent Wind	Hillsdale		MI	166		$48/MWh	LCOE	Company-owned	Wind	REP	2/15/2021	12/31/2020	U-15805	12/6/2019
Consumers	Cement City Solar, LLC	Jackson		MI	20		See contract	Full avoided cost	20 years	Solar	PURPA	7/1/2022			12/19/2019
Consumers	Letts Creek Solar, LLC	Jackson		MI	15		See contract	Full avoided cost	20 years	Solar	PURPA	8/1/2022		U-20604	12/19/2019
Consumers	Pullman Solar, LLC	Allegan		MI	20		See contract	Full avoided cost	20 years	Solar	PURPA	7/1/2022		U-20713	12/19/2019
Consumers	Thorn Lake Solar, LLC	Washtenaw		MI	20		See contract	Full avoided cost	20 years	Solar	PURPA	9/15/2024			12/19/2019
Consumers	Albion Solar, LLC	Calhoun		MI	10		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	Canceled		U-15805	4/15/2020
Consumers	Allegheny, LLC	Saginaw		MI	10.699		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	7/29/2024		U-15805	4/15/2020
Consumers	Aluminum Solar, LLC	Calhoun		MI	8		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	11/28/2024		U-15805	4/15/2020
Consumers	Arthur Solar Farm, LLC Plant	Midland		MI	1.827		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	1/1/2021		U-15805	4/15/2020
Consumers	Bamboo Solar, LLC	Jackson		MI	10		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	Canceled		U-15806	4/15/2020
Consumers	Beaverton Solar, LLC	Clare		MI	20		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	Canceled		U-15806	4/15/2020
Consumers	Blue Elk Solar I, LLC	Lenawee		MI	20		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	5/1/2024		U-15806	4/15/2020
Consumers	Blue Elk Solar III, LLC	Lenawee		MI	20		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	5/5/2023		U-15805	4/15/2020
Consumers	Blue Elk Solar IV, LLC	Lenawee		MI	20		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	5/5/2023		U-15805	4/15/2020
Consumers	Blue Elk Solar VII, LLC	Genesee		MI	12.331		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	5/5/2023		U-15805	4/15/2020
Consumers	Burns Park Solar, LLC	Genesee		MI	10		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	Canceled		U-15805	4/15/2020
Consumers	Byrne Solar, LLC	Genesee		MI	5		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	5/1/2023			4/15/2020
Consumers	Cloudbreak Solar, LLC	Arenac		MI	20		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	Canceled		U-15805	4/15/2020
Consumers	Congo Solar, LLC	Alcona		MI	10		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	Canceled		U-15812	4/15/2020
Consumers	Golden Solar Farm, LLC Plant	Livingston		MI	1.828		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	1/1/2021		U-20604	4/15/2020
Consumers	Greenstone Solar, LLC	Branch		MI	20		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	5/5/2023		U-20604	4/15/2020
Consumers	Hogan Solar, LLC	Livingston		MI	12		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	11/28/2024		U-20604	4/15/2020
Consumers	Johnsfield Solar, LLC	Midland		MI	10		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	7/29/2024		U-20604	4/15/2020
Consumers	Lightfoot Solar, LLC	Oscoda		MI	10		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	6/1/2023		U-20604	4/15/2020
Consumers	Lyons Road Solar Farm, LLC	Shiawassee		MI	20		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	9/1/2021		U-20604	4/15/2020
Consumers	Midcontinent Solar, LLC	Shiawassee		MI	20		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	5/5/2023			4/15/2020
Consumers	Robert Swift Solar Farm, LLC Plant	Branch		MI	1.828		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	1/1/2021		U-21094	4/15/2020
Consumers	Rosco Solar, LLC	Genesee		MI	10		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	Canceled		U-20165	4/15/2020

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Consumers	Shipsterns Solar, LLC	Calhoun		MI	20		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	7/1/2023		U-20604	4/15/2020
Consumers	Surbrook Solar, LLC	Jackson		MI	10		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	1/30/2024			4/15/2020
Consumers	Swede Solar, LLC	Alcona		MI	12		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	Canceled			4/15/2020
Consumers	TART Solar, LLC	Grand Traverse		MI	8.49		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	7/1/2022			4/15/2020
Consumers	Topanga Solar, LLC	Arenac		MI	20		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	1/30/2024		U-21189	4/15/2020
Consumers	Willford Solar, LLC	Gladwin		MI	20		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	12/1/2023		U-21193	4/15/2020
DTE	Assembly Solar III	Shiawassee		MI	79		$47-50/MWh	LCOE	25 years	Solar	REP	Year 2022		U-15806	7/9/2020
DTE	Riverfork Solar II	Calhoun		MI	49		$49-52/MWh	LCOE	25 years	Solar	REP	12/31/2023	12/31/2022	U-21094	7/9/2020
DTE	Meridian Wind Farm	Saginaw		MI	224.9		$46-49/MWh	LCOE	Company-owned	Wind	REP	4/18/2023		U-18232	7/9/2020
Consumers	Alverno Hydro Plant	Cheboygan		MI	1.2		See contract		20 years	Hydroelectric	PURPA	6/1/2019		U-15805	7/23/2020
Consumers	Bellevue Gothic Mill Plant	Eaton		MI	0.045		See contract		20 years	Hydroelectric	PURPA	6/1/2019		U-15805	7/23/2020
Consumers	Cascade Hydro Plant	Kent		MI	1.4		See contract		20 years	Hydroelectric	PURPA	1/1/2019		U-15806	7/23/2020
Consumers	City of Beaverton Hydro Plant	Gladwin		MI	0.5		See contract		20 years	Hydroelectric	PURPA	6/1/2019		U-16582	7/23/2020
Consumers	Durban Solar, LLC	Branch		MI	12		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	Canceled		U-17794	7/23/2020
Consumers	Esmarelda Solar, LLC	Mason		MI	8		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	Canceled		U-18111	7/23/2020
Consumers	Elk Rapids Hydro Plant	Antrim		MI	0.7		See contract		20 years	Hydroelectric	PURPA	10/13/2019		U-15805	7/23/2020
Consumers	Fallasburg Hydro Plant	Kent		MI	0.85		See contract		20 years	Hydroelectric	PURPA	6/1/2019		U-20604	7/23/2020
Consumers	Kleber Hydro Plant	Cheboygan		MI	1.2		See contract		20 years	Hydroelectric	PURPA	1/1/2020		U-20604	7/23/2020
Consumers	Shady Solar, LLC	Calhoun		MI	10		See contract	Avoided energy rates, PRA capacity rates	20 years	Solar	PURPA	Canceled		U-21140	7/23/2020
Consumers	Mass Burn Incinerator Plant	Kent		MI	18.2		See contract		20 years	Incinerator	PURPA	6/1/2019		U-20604	7/23/2020
I&M	South Bend Solar Project		St. Joseph County, IN	IN		20 MW (3 MW MI Jurisdictional)	$77.58/MWh	LCOE	30 years	Solar	REP	4/1/2021			7/23/2020
Consumers	Tower Hydro Plant	Cheboygan		MI	0.56		See contract		20 years	Hydroelectric	PURPA	1/1/2020		U-21189	7/23/2020
Consumers	White's Bridge Hydro Plant	Ionia		MI	0.817		See contract		20 years	Hydroelectric	PURPA	6/1/2019			7/23/2020
Consumers	Byron Center Plant	Kent		MI	3		See contract		20 years	Landfill Gas	PURPA	6/1/2019		U-15806	2/4/2021
Consumers	Coopersville Plant	Ottawa		MI	6.1		See contract		20 years	Landfill Gas	PURPA	6/1/2019			2/4/2021
Consumers	Grand Blanc Plant	Genesee		MI	3.8		See contract		20 years	Landfill Gas	PURPA	6/1/2019		U-15805	2/4/2021
Consumers	Pinconning Plant	Bay		MI	3		See contract		20 years	Landfill Gas	PURPA	6/1/2019		U-20838	2/4/2021
Consumers	Michigan Wind 1 Amendment	Huron		MI	12				7 years	Wind	REP			U-20833	2/4/2021
Consumers	MCV Plant	Midland		MI	1240		See contract		10 years	Cogeneration	PURPA	3/4/2021		U-18232	3/4/2021
Consumers	Heartland Farms Wind Project	Gratiot		MI	200		$56/MWh	LCOE	Company-owned	Wind	REP	12/31/2022		U-20604	3/19/2021
Consumers	Calhoun Solar Energy	Calhoun		MI	140		59.72	Average Cost	25 years	Solar	IRP	Delayed	5/31/2022	U-20165	4/8/2021
Consumers	Mustang Mile	Lenawee		MI	150		$71.76/MWh	Average Cost	Company-owned	Solar	IRP	12/31/2022			4/8/2021
DTE	Calhoun County Solar	Calhoun		MI	100		$52.46/MWh	LCOE	25 years	Solar	VGP	Canceled	12/31/2022	U-15806	6/9/2021
DTE	Freshwater Solar	Montcalm		MI	200		$48-51/MWh	LCOE	Company-owned	Solar	VGP	Canceled	12/31/2022	U-20604	6/9/2021
DTE	Whitetail Solar	Washtenaw		MI	120		$51-54/MWh	LCOE	Company-owned	Solar	VGP	Canceled	12/31/2022	U-21090	6/9/2021
Alpena	Four Mile	Alpena		MI	2.08		See contract		3 years +	Hydroelectric	PURPA	12/1/1913		U-15805	7/2/2021
Alpena	Hillman	Montmorency		MI	0.25		See contract		3 years +	Hydroelectric	PURPA	12/1/1944		U-20604	7/2/2021
Alpena	Ninth Street	Alpena		MI	1.2		See contract		3 years +	Hydroelectric	PURPA	12/1/1910		U-20604	7/2/2021
Alpena	Norway Point	Alpena		MI	4		See contract		3 years +	Hydroelectric	PURPA	12/1/1924			7/2/2021
Consumers	Heathlands Solar	Manistee		MI	30		$41.72/MWh; $39.41 w/o FCM	Average Cost	20 years	Solar	IRP	Canceled		U-20604	9/9/2021
Consumers	DSC Corp Center Solar Plant	Bay		MI	0.0313		See contract	Full avoided cost	10 years	Solar	PURPA	9/4/2021		U-17793	11/4/2021
Consumers	Cereal City Solar	Calhoun		MI	100		51.6	Average Cost	25 years	Solar	IRP	5/31/2023		U-16582	11/18/2021
Consumers	Jackson County Solar	Jackson		MI	125		$54.71/MWh	LCOE	14 years	Solar	IRP	11/30/2025	12/31/2023	U-20604	11/18/2021
Consumers	SCHS Solar	Kent		MI	0.55		See contract	LMP energy rates, PRA capacity rates	10 years	Solar	PURPA	10/1/2021		U-20604	11/18/2021
Consumers	Washtenaw Solar	Washtenaw		MI	150		$56.91/MWh	Average Cost	Company-owned	Solar	IRP	12/31/2023		U-21090	11/18/2021
Alpena	Eagle Creek Development Holdings, LLC		Various	MI		"Bulk of RECs needed to meet the RPS"	Redacted	REC pricing	3 years	Misc.	REP	12/9/2021		U-15805	1/20/2022
Consumers	MAP Plant	Kent		MI	0.375		See contract	LMP energy rates, PRA capacity rates	10 years	Solar	PURPA	12/16/2019		U-20604	1/20/2022
Consumers	Morrow Plant	Kalamazoo		MI	0.88		See contract	Full avoided cost	5 years	Hydroelectric	PURPA			U-20833	4/25/2022

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Consumers	Blue Elk Solar II Plant	Ingham		MI	20		See contract	negotiated rates based on avoided cost	20 years	Solar	PURPA	9/15/2023		U-15806	10/5/2022
Consumers	Confluence Solar		Genesee & Saginaw	MI	150		$49.85 MWh	LCOE	25 years	Solar	IRP	12/31/2024		U-15805	10/5/2022
Consumers	Heartwood Solar	Hillsdale		MI	150		$52.67 MWh	LCOE	25 years	Solar	IRP	12/31/2024			10/5/2022
Consumers	Addle Solar	Hillsdale		MI	20		See contract		20 years	Solar	PURPA	7/4/2024		U-15808	10/27/2022
Consumers	Copenhagen Solar	Saginaw		MI	20		See contract		20 years	Solar	PURPA	7/4/2024			10/27/2022
DTE	Gratiot Co-Location Solar Park	Gratiot		MI	50		$59-63/MWh	LCOE	Company-owned	Solar	VGP	12/31/2023		U-20604	10/27/2022
Consumers	Holly Solar	Oakland		MI	20		See contract		20 years	Solar	PURPA	4/5/2025		U-20604	10/27/2022
Consumers	Olivier Solar	Lenawee		MI	20		See contract		20 years	Solar	PURPA	4/5/2025			10/27/2022
DTE	Pine River Co-Location Solar Park	Gratiot		MI	80		$52-54/MWh	LCOE	Company-owned	Solar	VGP	4/30/2025	12/31/2023	U-20942	10/27/2022
DTE	Polaris Co-Location Solar Park	Gratiot		MI	100		$56-59/MWh	LCOE	Company-owned	Solar	VGP	5/31/2025	12/31/2023	U-20165	10/27/2022
Consumers	Puck Solar	Ionia		MI	20		See contract		20 years	Solar	PURPA	7/4/2024		U-20713	10/27/2022
DTE	Sauk Solar	Branch		MI	150		$45-47/MWh	LCOE	Company-owned	Solar	VGP	12/31/2023		U-20165	10/27/2022
Consumers	Shoreline Solar	St. Joseph		MI	20		See contract		20 years	Solar	PURPA	4/5/2025		U-20833	10/27/2022
Consumers	Sunbelievable Solar	Clinton		MI	12		See contract		20 years	Solar	PURPA	7/4/2024		U-20604	10/27/2022
DTE	Big Turtle 2 Wind Park	Huron		MI	29.4		$48-$50/MWh	LCOE	Company-owned	Wind	VGP	4/1/2023		U-15805	3/24/2023
I&M	Elkhart County Solar Project, LLC		Elkhart, IN	IN	100	Indiana Generation	Redacted	LCOE	30 years	Solar	PPA	12/31/2025		U-15805	8/30/2023
I&M	Mayapple Solar Holdings, LLC		Pulaski, IN	IN	224	Indiana Generation	Redacted	LCOE	Company-owned	Solar	PSA	5/31/2026		U-20604	8/30/2023
I&M	Sculpin Solar, LLC		DeKalb, IN	IN	180	Indiana Generation	Redacted	LCOE	30 years	Solar	PPA	12/31/2025		U-20165	8/30/2023
Consumers	Sunfish Solar 2	Calhoun		MI	309		$51.21/MWh	LCOE	BTA	Solar	VGP	12/31/2025			9/28/2023
DTE	Fish Creek Solar	Montcalm		MI	132		$63/MWh	LCOE	Company-owned	Solar	VGP	9/30/2025		U-20604	1/18/2024
DTE	Little Trout Solar	Presque Isle		MI	150		$63/MWh	LCOE	Company-owned	Solar	VGP	12/31/2025		U-20604	1/18/2024
DTE	Mission Road Co-Location Solar	Isabella		MI	153		$63/MWh	LCOE	Company-owned	Solar	VGP	12/31/2025		U-21361	1/18/2024
Consumers	Freshwater Solar, LLC	Montcalm		MI	200		$63.29/MWh	LCOE	20	Solar	PPA	6/1/2027		U-20604	3/15/2024
DTE	Kay L Brainerd Solar	Wayne		MI	0.25		See contract	LMP energy rates	20 years	Solar	PURPA	7/16/1905		U-20604	3/15/2024
DTE	Trenton Channel Energy Center	Wayne		MI	220		TBD	LCOC	Company-owned	Battery	PCA	TBD 2025		U-21409	3/15/2024
DTE	Coldwater River Solar, LLC	Branch		MI	150		$75/MWh	LCOE	30	Solar	PPA	3/31/2026		U-21193	4/11/2024
UMERC	Renegade Solar Energy, LLC	Delta		MI	100		$89.67/MWh	LCOE	Company-owned	Solar	PSA	12/31/2026		U-21094	4/11/2024
DTE	White Pine Grove Solar, LLC	Calhoun		MI	100		$79/MWh	LCOE	25	Solar	PPA	3/31/2026		U-21193	4/11/2024
Consumers	Tibbits Energy Storage, LLC	Branch		MI	100		$200,085/ZRC	LCOC	20	Other Storage	PPA	5/31/2025		U-21189	4/11/2024
Consumers	Ada Hydroplant	Kent		MI	1.4		See contract		1 year	Hydroelectric	PURPA	3/15/1984		U-15804	8/22/2024
Consumers	Century Oaks Storage	Huron		MI	200		143.54	LCOE	20 years	Other Storage	PPA	6/1/2025		U-16582	8/22/2024
UPPCO	Groveland Mine Solar	Dickinson		MI	62.5		Redacted		15 years	Solar	IRP	Q4 2028		U-20604	8/22/2024
DTE	Cedar Fields Solar Park	Gladwin	Gladwin & Clare Counties	MI	138		70.2	LCOE	Redacted	Solar	IRP	6/1/2027		U-21193	9/5/2024
I&M	Hoosier Line Solar PPA		White County, IN	IN	180		Redacted	LCOE	30 years	Solar	PPA	3/2/2027		U-21189	10/10/2024
I&M	Meadow Lake Wind PPA		White County, IN	IN	100	Increasing from 76 MW in 2032	Redacted	LCOE	20 years	Wind	PPA	12/31/2025		U-21189	10/10/2024
Consumers	Voyager PPA	Washtenaw	Saline Township	MI	100		$14.54/MWh	Fixed payment	20 years	Solar	PPA	5/31/2027		U-21090	11/21/2024
DTE	City of Detroit - DTE Special Contract (10 MW)	Wayne	City of Detroit	MI		10 MW	Redacted		35 years	Solar	Special Contract	N/A		U-21361	12/19/2024
DTE	Ford - DTE Special Contract (<=650 MW)			MI		Up to 650 MW			35 years	Solar	Special Contract	N/A		U-21285	12/19/2024
DTE	Cold Creek Solar Park	Branch		MI	100		$65/MWh			Solar	VGP	Q4 2026		U-16582	2/11/2025
Consumers	Manitou Farms	Benzie		MI	0.15		$38.44/MWh	Full avoided cost	1 years	Solar	PPA	8/1/2024		U-20604	2/27/2025
DTE	Silver Creek (FCA Special Contract)	Huron	Colfax Township	MI	200		Redacted	LCOE	35 years	Solar	VGP	9/30/2028		U-21361	3/13/2025
DTE	City of Detroit - DTE Special Contract[2] (10 MW)	Wayne		MI	10				35 years	Solar	Special Contract	9/30/2026		U-21361	4/24/2025
DTE	City of Detroit Phase 2 - DTE Spec Con (6.8 MW)	Wayne		MI	6.8		$175/MWh		35 years	Solar	Special Contract	9/30/2027		U-21361	5/15/2025
DTE	UofM - DTE Special Contract (80MW)			MI	80				35 years	Solar	Special Contract			U-21361	5/15/2025
Consumers	Blackman Solar	Jackson		MI	2.5		$101/MWh	LCOE		Solar	VGP			U-15805	6/12/2025
Consumers	Consumers - Pivot Energy Solar PPA			MI	2				15 years	Solar	PPA	12/31/2026		U-20604	6/12/2025
UPPCO	Republic Solar	Marquette		MI	62.5		$89.62/MWh	LCOE		Solar	IRP	1/31/2027		U-20350	6/12/2025
Consumers	Karn Solar Center	Bay	Hampton Charter Township	MI	85		$59/MWh	LCOE	35 years	Solar	VGP	12/31/2026		U-21374	7/10/2025
DTE	UofM Beecher Solar	Lenawee	Palmyra Township	MI	80		$79/MWh	LCOE	35 years	Solar	VGP	6/30/2025		U-21361	7/10/2025

Appendix B: REP Filings

Electric Provider	MPSC Docket	Filing Deadline
Investor-Owned Utilities		
Alpena Power Company	U-21846	January 17, 2025
Consumers Energy Company	U-21816	November 15, 2024
DTE Electric Company	U-21662	July 19, 2024
Indiana Michigan Power Company	U-21843	January 17, 2025
Northern States Power Company	U-21812	January 17, 2025
Upper Michigan Energy Resources Corporation	U-21813	January 17, 2025
Upper Peninsula Power Company	U-21811	January 17, 2025
Alternative Energy Suppliers		
Calpine Energy Solutions, LLC f/k/a Noble Americas Energy Solutions LLC	U-16650	February 27, 2025
CMS ERM Michigan LLC	U-21849	February 27, 2025
Constellation NewEnergy Inc	U-16642	February 27, 2025
Direct Energy Business LLC d/b/a NRG Energy	U-16643	February 27, 2025
Energy Harbor, LLC f/k/a FirstEnergy Solutions Corp	U-16644	February 27, 2025
Spartan Renewable Energy Inc	U-16651	February 27, 2025
Electric Cooperatives		
Alger Delta Cooperative Electric Association	U-16589	February 27, 2025
Bayfield Electric Cooperative	U-15814	February 27, 2025
Cherryland Electric Cooperative	U-16591	February 27, 2025
Cloverland Electric Cooperative	U-17799	February 27, 2025
Great Lakes Energy Cooperative	U-16593	February 27, 2025
HomeWorks Tri-County Electric Cooperative	U-16594	February 27, 2025
Midwest Energy and Communications	U-16595	February 27, 2025
Ontonagon County REA	U-16596	February 27, 2025
Presque Isle Electric and Gas Co-op	U-16598	February 27, 2025

Electric Provider	MPSC Docket	Filing Deadline
Electric Cooperatives (continued)		
Thumb Electric Cooperative	U-16653	February 27, 2025
Wolverine Power Marketing Cooperative	U-17801	February 27, 2025
Municipal Electric Providers		
Chelsea Department of Electric and Water	U-16602	February 27, 2025
City of Bay City	U-16600	February 27, 2025
City of Charlevoix	U-16601	February 27, 2025
City of Crystal Falls	U-16606	February 27, 2025
City of Dowagiac	U-16609	February 27, 2025
City of Eaton Rapids	U-16610	February 27, 2025
City of Escanaba	U-16611	February 27, 2025
City of Gladstone	U-16612	February 27, 2025
City of Harbor Springs	U-16614	February 27, 2025
City of Hart Hydro	U-16615	February 27, 2025
City of Norway	U-16626	February 27, 2025
City of Paw Paw	U-16627	February 27, 2025
City of Petoskey	U-16628	February 27, 2025
City of Portland	U-16629	February 27, 2025
City of Sebewaing	U-16630	February 27, 2025
City of South Haven	U-16631	February 27, 2025
City of St. Louis	U-16632	February 27, 2025
City of Stephenson	U-16633	February 27, 2025
City of Sturgis	U-16634	February 27, 2025
City of Wakefield	U-16637	February 27, 2025
Coldwater Board of Public Utilities	U-16604	February 27, 2025
Croswell Municipal Light & Power Department	U-16605	February 27, 2025
Daggett Electric Department	U-16607	February 27, 2025

Electric Provider	MPSC Docket	Filing Deadline
Municipal Electric Providers (continued)		
Grand Haven Board of Light and Power	U-16613	February 27, 2025
Hillsdale Board of Public Utilities	U-16616	February 27, 2025
Holland Board of Public Works	U-16617	February 27, 2025
Lansing Board of Water & Light	U-16619	February 27, 2025
Lowell Light and Power	U-16620	February 27, 2025
Marquette Board of Light and Power	U-16621	February 27, 2025
Marshall Electric Department	U-16622	February 27, 2025
Negaunee Department of Public Works	U-16623	February 27, 2025
Newberry Water and Light Board	U-16624	February 27, 2025
Niles Utility Department	U-16625	February 27, 2025
Traverse City Light & Power	U-16635	February 27, 2025
Union City Electric Department	U-16636	February 27, 2025
Village of Baraga	U-16599	February 27, 2025
Village of Clinton	U-16603	February 27, 2025
Village of L'Anse	U-16618	February 27, 2025
Wyandotte Department of Municipal Service	U-16638	February 27, 2025
Zeeland Board of Public Works	U-16639	February 27, 2025