STATE OF MICHIGAN

BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION

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In the matter, on the Commission's own motion, to establish a workgroup to conduct an electric grid integration study and to make recommendations to improve the readiness of the distribution system for distributed energy resources and electric vehicle infrastructure.	)))))))	Case No. U-21251

At the July 7, 2022 meeting of the Michigan Public Service Commission in Lansing, Michigan.

PRESENT: Hon. Daniel C. Scripps, Chair
Hon. Tremaine L. Phillips, Commissioner
Hon. Katherine L. Peretick, Commissioner

ORDER

In the October 17, 2019 order in Case No. U-20645, the Commission established the MI Power Grid initiative in partnership with Governor Gretchen Whitmer (October 17 order). MI Power Grid is a focused, multi-year stakeholder initiative, the purpose of which is to maximize the benefits of the transition to clean distributed energy resources (DERs) for Michigan residents and businesses. MI Power Grid seeks to engage utility customers and other stakeholders to help integrate new clean energy technologies and to optimize grid investments for reliable, affordable electricity service. These efforts include outreach and education, as well as changes to utility regulation designed to advance Michigan's clean energy future.

The October 17 order described the MI Power Grid objective of *Integrating Emerging Technologies* as "[e]nsuring timely and fair grid access and appropriate information exchange to

support customer-oriented solutions and reliable system operations." October 17 order, p. 7. The Commission also described this corresponding work area:

> **Data access and privacy**, including review and refinement of protocols to ensure information is available to end-use customers and appropriate third parties for use in making energy investment decisions (e.g., solar, energy efficiency) while ensuring that personally identifiable and critical energy infrastructure information is kept secure and private.

Id., p. 7.

In the MI Power Grid Status Report submitted on October 15, 2020, in Case No. U-20645, the Commission Staff (Staff) recommended that the Commission "consider bifurcating the two elements it identified as comprising the Data Access & Privacy work area – System Data Access and Customer Data Access – such that the Customer Data Access section can be integrated into a workgroup in the Customer Engagement area of focus within MI Power Grid." 2020 MI Power Grid Status Report, Case No. U-20645, filing #U-20645-0004, p. ii.

In the second MI Power Grid Status Report filed on September 30, 2021, in Case No. U-20645, the Staff identified several MI Power Grid workgroups that had not yet been initiated, including the Distribution System Data Access work area. 2021 MI Power Grid Status Report, Case No. U-20645, filing #U-20645-0017, p. 21. The Staff also noted topics that the Distribution System Data Access workgroup could address, including: (1) further study and stakeholder engagement on the "go/no-go" hosting capacity maps the Commission requested that DTE Electric Company (DTE Electric) and Consumers Energy Company (Consumers) file in their respective 2021 distribution plans, and (2) responding to Michigan Senate Resolution No. 143 of 2020 (SR 143), which encouraged the Commission to study "reliability, interconnection, and related grid integration issues for distributed energy." SR 143; *see also*, 2021 MI Power Grid Status Report, Case No. U-20645, filing #U-20645-0017, p. 21.

The purpose of this order is to officially launch the Distribution System Data Access workgroup (workgroup) as part of Phase III of MI Power Grid and to provide guidance to the Staff and stakeholders regarding the Commission's objectives and expectations for this effort.

Background and Recent Developments

The outlook on distributed generation (DG) and electric vehicle (EV) adoption in Michigan is a key driver of the need to collect, study, and provide enhanced access to circuit-level distribution system data. Despite representing just 0.1% of Michigan's total retail electricity sales at the end of 2020, DG programs are growing rapidly throughout the state. DG in Michigan has grown every year from 2006 to 2021, with a total program capacity of more than 90 megawatts (MW) at the end of 2020, an increase of almost 25 MW or 37% over the previous year. Distributed Generation Program Report, October 2021 (DG Report), p. 2.[1] Customer participation in the DG program, created after the passage of Public Acts 341 and 342 of 2016, reached 10,553 customers and 10,718 installed systems in 2020, an increase from 8,147 customers and 8,331 installations in 2019. *Id.* As of calendar year 2020, "97% of program installations are solar projects as opposed to wind turbines, hydroelectric projects, or methane digesters." *Id.*, p. 3. Furthermore, the Staff noted in the DG Report that program participants have a growing interest in pairing their DG systems with battery storage, and electric providers reported 769 DG program participants with battery storage, for a total storage capacity of over 4 MW. *Id.*, p. 6. As of 2022, all Michigan utilities, with the exception of Upper Michigan Energy Resources Corporation, have designed and implemented in-flow/out-flow tariffs for new distributed generation customers that will allow additional customers to enroll in the program. Furthermore, with the MI Healthy Climate Plan

[1] Available at: https://www.michigan.gov/mpsc/-/media/Project/Websites/mpsc/regulatory/reports/dg/MPSC_Staff_DG_Report_Calendar_Year_2020.pdf (accessed June 28, 2022).

setting a target of 60% of electricity from renewable resources by 2030 and economy-wide carbon neutrality by 2050, there is a strong emphasis on the need for increased "customer-sited behind-the-meter distributed energy resources." *See,* MI Healthy Climate Plan, April 2022, p. 33.[2]

The State of Michigan has also demonstrated a strong commitment to the expansion of EVs. The MI Healthy Climate Plan aims to achieve 2 million EVs on the road by 2030; this represents a significant increase from the current market share, where just 0.62% of all vehicles sold in Michigan in 2020 were EVs. *Id.*, p. 38. By 2030, Michigan aims for 50% light-duty vehicle sales, 30% medium and heavy-duty vehicle sales, and 100% of public transit and school bus sales to be electric. *Id.* The State of Michigan, through the Charge Up Michigan program, continues to invest in building out the state's EV charging infrastructure by partnering with electric utilities to provide funding to site hosts for DC fast charging stations. *Id.*, pp. 37-39.

Electric utilities in Michigan have likewise made commitments to supporting these ambitious vehicle electrification goals. In 2021, Consumers announced a commitment to power 1 million EVs in their service territory by 2030.[3] This represents a significant increase over the 12,000 EVs currently registered in Consumers' territory. In 2022, DTE Electric announced a partnership with Volta to identify lower-income communities that have not received equitable investment in EV charging networks and to begin to install chargers in these areas.[4] Furthermore, both Consumers

[2] Available at: https://www.michigan.gov/egle/-/media/Project/Websites/egle/Documents/Offices/OCE/MI-Healthy-Climate-Plan.pdf?rev=d13f4adc2b1d45909bd708cafccbfffa&hash=99437BF2709B9B3471D16FC1EC692588 (accessed June 28, 2022).

[3] *See,* https://www.consumersenergy.com/news-releases/news-release-details/2021/11/04/13/14/consumers-energy-we-can-power-1-million-electric-vehicles-on-michigan-roads-by-2030 (accessed June 28, 2022).

[4] *See*, https://www.michigan.gov/whitmer/news/press-releases/2022/04/28/gilchrist-announces-grants-to-support-statewide-electric-vehicle-adoption (accessed June 28, 2022).

and DTE Electric, as well as Indiana Michigan Power Company (I&M), are in various phases of implementing Commission-approved EV pilot programs, and additional electric utilities, including Alpena Power Company and Upper Peninsula Power Company, have received Commission approval to establish EV programs of their own.

As the demand for and deployment of DG systems and EV infrastructure accelerates, there will be an increased need for the collection of distribution system level data, and for the transparency of that data, in order to encourage DG and EV adoption in a way that minimizes costs and enhances efficient utilization of the grid.

Hosting Capacity Analysis in Electric Utility Distribution Plans

In the January 31, 2017 order in Case No. U-18014 and the February 28, 2017 order in Case No. U-17990, the Commission directed DTE Electric and Consumers, respectively, to develop and submit 5-year investment and maintenance distribution plans by the dates specified in those orders. On April 12, 2018, the Commission opened the docket in Case No. U-20147 as a single repository for certain regulated electric utilities' 5-year distribution plans. Additionally, the August 20, 2020 order in Case No. U-20147 (August 20 order) requested that DTE Electric and Consumers submit the first iteration of a hosting capacity analysis (HCA) with their 2021 distribution plan filings, and I&M was asked to observe this process in preparation for their own HCA. August 20 order, p. 42.

In the August 20 order, the Commission found that "increased visibility into distribution system capabilities and limitations is important to guide development of DERs in an efficient manner and inform planning decisions," and that the HCA can provide this visibility. August 20 order, p. 41. The utilities were also directed to include discussions on decision criteria for screening of non-wires alternatives (NWAs) as well as new pilots that could be considered in their

2021 distribution plan filings. *Id.*, pp. 41-42. In compliance with the Commission's request, the utilities submitted these plans and discussions of the HCA in 2021.

Consumers submitted a 5-year distribution plan on June 30, 2021. The plan included a 3-phase approach to the expansion of NWAs that progresses from initial pilots to advanced pilots and integration of scaled projects. Consumers submitted a zonal "go/no-go" map as the first phase of the HCA, which the company will update annually, and which is publicly available on the company's website.[5] The second phase of Consumers' HCA will utilize additional tools to refine the screening criteria for NWAs. *See*, Case No. U-20147, filing # U-20147-0060, pp. 113-121.

DTE Electric submitted a 5-year distribution plan on September 30, 2021. The DTE Electric distribution plan also outlines a multi-phase approach to the HCA, beginning with a zonal "go/no-go" map that is publicly available on the company's website.[6] DTE Electric plans to utilize additional tools to refine their screening criteria in 2022, followed by integration and interconnection links to the screening process in 2023. *See*, Case No. U-20147, filing # U-20147-0071, pp. 73-76.

I&M also addressed the HCA in its 5-year distribution plan, which was submitted on September 30, 2021. Though I&M has not begun a formal HCA process, the company has initiated pilot programs and anticipates an implementation start date of 2023-2024. *See*, Case No. U-20147, filing #U-20147-0070, p. 72.

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[5] *See*, https://cms.maps.arcgis.com/apps/instant/lookup/index.html?appid=b90ff63b338043b7bcae43dd685a419d (accessed July 7, 2022).

[6] *See*, https://dte.maps.arcgis.com/apps/webappviewer/index.html?id=64e9f4e0f82c42e7b7ed847273ec2764 (accessed July 7, 2022).

Michigan Senate Resolution No. 143 of 2020

On September 29, 2020, the Michigan Senate adopted SR 143 to "encourage the Michigan Public Service Commission," in coordination with the electric utilities, to conduct a study of the "potential opportunity to integrate customer-owned generation resources into the electric grid." SR 143 notes the significant increase in customer-owned distributed generation systems since 2008 and expresses concern that the grid is "not designed to accommodate significant amounts of distributed generation." SR 143 encourages the Commission to "undertake a study on reliability, interconnection, and grid integration issues for distributed energy, including potential growth of distributed energy systems, changes to system design and operations, and system benefits, costs, and other impacts." Further, SR 143 encourages the Commission to coordinate with electric providers and other persons on "distribution circuit-level data collection, modeling, and analysis" to evaluate the available capacity and constraints on the interconnection of additional DG systems, and to submit its findings from the study to the Senate by December 31, 2022.

Following further discussions between the Commission and the Michigan Senate, the study will also include an evaluation of system impacts and benefits from the integration of EV infrastructure on the grid.

U.S. Department of Energy State Technical Assistance to Public Utility Commissions

In December of 2021, the Commission was selected as a part of a cohort of 21 public utility commissions to receive technical assistance from the U.S. Department of Energy's (DOE) Grid Modernization Initiative *State Technical Assistance to Public Utility Commission* program. Recognizing the rapid adoption of DG systems (residential solar and battery systems) and EVs, and the potential challenges and benefits that increased adoption of these technologies may present to the distribution system, the Commission requested and will receive technical assistance from

research and policy experts at the DOE and the National Renewable Energy Laboratory (NREL) to support the Staff, utilities, and DG and EV stakeholders in: (1) developing a methodology to study bi-directional (load and generation) hosting capacity on the distribution system, (2) identifying data- and privacy-related considerations and limitations when increasing the collection of and access to distribution system level data, and (3) researching and compiling a grid integration study in response to SR 143.

Scope of the Distribution System Data Access Workgroup

In order to best prioritize the time and efforts of the Staff and stakeholders, the Commission seeks to clarify, through this order, its intentions for the initial scope of the workgroup. The Commission directs the Staff to convene utilities, DG contractors, EV charging infrastructure providers, and other stakeholders to explore the following topics of interest to this workgroup:

1. Develop a Methodology to Study Bi-Directional Hosting Capacity

The Staff will work with NREL through the technical assistance program to develop a generic methodology to study bi-directional hosting capacity on electric distribution networks. This methodology will assist in defining the maximum amount of DG systems and EV charging infrastructures that can be accommodated on a segment of the distribution system without compromising power quality and reliability or requiring additional controls or infrastructure upgrades.

The Staff will work with NREL to conduct two stakeholder meetings with companies, organizations, and interested persons in the DG and EV communities. These stakeholder meetings will provide a better understanding of: (1) the specific challenges faced by those in the DG and EV communities, and (2) how such challenges could be alleviated or avoided by having access to utility-hosted bi-directional hosting capacity maps and associated distribution system-level data.

Questions and topics that may be considered during these stakeholder meetings include the following:

- How can access to bi-directional hosting capacity maps reduce customer acquisition, project siting, or other administrative costs that limit increased adoption and deployment of DG systems and EV infrastructure in Michigan?

- What data would be helpful for DG and EV stakeholders to have access to, and what are the nuanced differences between the data requested to site DG projects and the data requested to site EV charging infrastructure?

- In what format and at what level of granularity is this data of use to these stakeholders?

- How might customer-owned energy storage resources augment both DG and EV hosting capacity?

- What other features/consideration would stakeholders like to see included in a bi-directional hosting capacity map?

In addition, the Commission expects that the Staff will consider how other States have facilitated the creation of bi-directional hosting capacity maps, what examples from other States might be relevant within the Michigan regulatory context, and what lessons learned or other considerations from other States might be applied in Michigan. Information gathered and developed by the Staff and NREL will be used to engage with electric utilities to improve upon existing or yet-to-be-developed electric utility HCAs and publicly available hosting capacity maps.

2. Identify Utility and Stakeholder Data-Related and Privacy-Related Considerations

The Staff will work with NREL to host discussions with electric utilities in Michigan to: (1) explore how the information gathered from the stakeholder meetings with those in the DG and EV communities can be used to improve upon existing (or help in the development of new) publicly available hosting capacity maps, and (2) better understand what data privacy and security concerns must be considered when improving upon or developing publicly available hosting capacity maps. Questions and topics that may be addressed during these discussions include the following:

- What are the data or privacy concerns associated with applying the methodologies in a more granular fashion (for example, spatially) for residential consumers?

- Will aggregated data (on a transformer level) suffice to be shown on the map while the methodology still uses granular consumer data?

- How can the hosting capacity map *interact* with the pre-application interconnection request process?

- What other features/considerations would utilities like to see included in a bi-directional hosting capacity map?

- Are there specific DER and EV growth/projection curves that the utilities can share for impact studies?

3. Compile the SR 143 Grid Integration Study

The Staff will work with NREL to conduct, assemble, and submit to the Michigan Senate the results of a grid integration study as requested in SR 143. Examples of topics that the workgroup will assess as part of the grid integration study include, but are not limited to, the following:

- *Reliability* - The expansion of customer-owned generation resources will require new technological components that can impact grid reliability. The workgroup will identify the impacts of increased distributed energy and EVs on the grid at both the grid-wide and location-specific levels, as well as the measurable effects of distributed energy on grid reliability in other states.

- *Potential growth of distributed energy systems* - Ensuring resource adequacy on the grid depends on the ability of regulators and utilities to accurately forecast electricity supply and demand. Distributed energy systems introduce reverse power flow that can make this forecasting more challenging. Therefore, the workgroup will explore how to effectively model and project the scale of expansion of DG and EVs in Michigan.

- *Changes to system design and operations* - Distributed energy, including energy storage and demand response, cannot penetrate the market beyond a certain threshold without grid infrastructure upgrades. The workgroup will assess the need for and impact of new technologies on both sides of the meter.

- *System costs and benefits* – Distributed energy offers low-carbon alternatives to conventional generation, and the potential to defer grid upgrades to transmission and distribution infrastructure. Still, reliability concerns and system design costs at increasing levels of adoption require deeper understanding. The workgroup will

therefore further investigate the costs and benefits of the expansion of DG systems and EVs.

- *Interconnection* - Bringing on large quantities of DG and EV charging infrastructure requires a proper understanding of the circuit-level effects that these technologies have on the grid. The workgroup will focus on coordinating with electric utilities to better understand how hosting capacity tools interact with the pre-application interconnection request process for DG systems and EV charging infrastructure.

The grid integration study shall be completed and filed in this docket by December 31, 2022.

Next Steps

The Staff will coordinate with the NREL researchers and experts assigned to provide technical assistance to the Commission to coordinate and conduct two stakeholder meetings in 2022 with companies, organizations, and other interested persons from the DG and EV infrastructure communities. The first stakeholder meeting, which will engage stakeholders from the DG community, will be held on August 16, 2022. The second stakeholder meeting, which will engage stakeholders from the EV community, will be held on August 22, 2022. The stakeholder meetings will be convened virtually and accessible via Microsoft Teams. All interested persons may receive further information concerning the stakeholder meetings through the MI Power Grid Distribution System Data Access webpage, available at: Distribution System Data Access (michigan.gov).

THEREFORE, IT IS ORDERED that:

A. The Distribution System Data Access workgroup is established, as described in this order.

B. Upon the completion of the final grid integration study, the Commission Staff shall file the final study in this docket not later than December 31, 2022.

The Commission reserves jurisdiction and may issue further orders as necessary.

MICHIGAN PUBLIC SERVICE COMMISSION

Daniel C. Scripps, Chair

Tremaine L. Phillips, Commissioner

Katherine L. Peretick, Commissioner

By its action of July 7, 2022.

Lisa Felice, Executive Secretary

P R O O F O F S E R V I C E

STATE OF MICHIGAN)

Case No. U-21251

County of Ingham)

Brianna Brown being duly sworn, deposes and says that on July 7, 2022 A.D. she electronically notified the attached list of this **Commission Order via e-mail transmission**, to the persons as shown on the attached service list (Listserv Distribution List).

Brianna Brown

Subscribed and sworn to before me
this 7th day of July 2022.

Angela P. Sanderson
Notary Public, Shiawassee County, Michigan
As acting in Eaton County
My Commission Expires: May 21, 2024

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