



201 North Washington Square | Suite 910  
Lansing, Michigan 48933  
Telephone 517 / 482-6237 | Fax 517 / 482-6937 | www.varnumlaw.com

**Laura A. Chappelle**

lachappelle@varnumlaw.com

December 23, 2020

Ms. Lisa Felice  
Executive Secretary  
Michigan Public Service Commission  
7109 W. Saginaw Highway  
P.O. Box 30221  
Lansing, MI 48909

**Re: MPSC Case No. U-20713 and U-20851 consolidated**

Dear Ms. Felice:

Attached for electronic filing in the above-referenced matter, please find Direct Testimony and Exhibits of Dr. Laura Sherman and Caitlin Marquis filed on behalf of Michigan Energy Innovation Business Council, Institute for Energy Innovation, and Advanced Energy Economy.

Thank you for your assistance in this matter.

Very truly yours,

**VARNUM**

Laura A. Chappelle

LAC/sej  
Enclosures  
c. ALJ  
All parties of record.  
17354273.1

**STATE OF MICHIGAN  
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION**

\*\*\*\*\*

In the matter, on the Commission's own motion,	)	
regarding the regulatory reviews, revisions,	)	Case No. U-20713
determination and/or approvals necessary for	)	
regulated electric providers to comply	)	
with Section 61 of 2016 PA 342.	)	

In the matter, on the Commission's own motion,	)	Case No. U-20851
regarding the regulatory reviews, revisions,	)	
determination and/or approvals necessary to	)	
fully comply with Public Act 295 of 2008.	)	Consolidated
<hr/>		

**DIRECT TESTIMONY OF  
DR. LAURA SHERMAN  
ON BEHALF OF  
THE MICHIGAN ENERGY INNOVATION BUSINESS COUNCIL,  
INSTITUTE FOR ENERGY INNOVATION,  
AND  
ADVANCED ENERGY ECONOMY**

1 **Q. State your name, business name and address.**

2 A. My name is Laura Sherman and I am the President of the Michigan Energy Innovation  
3 Business Council (“Michigan EIBC”) and the Institute for Energy Innovation (“IEI”),  
4 located at 115 West Allegan, Suite 710, Lansing, Michigan 48933.

5  
6 **Q. On whose behalf are you appearing in this case?**

7 A. I am appearing here as an expert witness on behalf of Michigan EIBC, IEI, and Advanced  
8 Energy Economy (“AEE”), collectively referred to as “Michigan EIBC/IEI/AEE.”

9  
10 **Q. Summarize your educational background.**

11 A. I have a Ph.D. from the University of Michigan Earth and Environmental Sciences  
12 Department, conferred in May 2012. I also have a Bachelor of Science degree from  
13 Stanford University in Geological and Environmental Sciences, conferred in June 2005.

14  
15 **Q. Summarize your experience in the field of electric utility regulation.**

16 A. Since April 2019, I have served as the President of Michigan EIBC and IEI. Prior to that,  
17 starting in February 2017, I was a senior consultant at 5 Lakes Energy focusing on energy  
18 policy and utility regulation and I also served as the Vice President for Policy Development  
19 for the Michigan EIBC and IEI. In these capacities, I have written testimony in many non-  
20 adjudicated dockets before the Michigan Public Service Commission (“Commission” or  
21 “MPSC”). From 2014-2016, I served as an energy policy advisor to Senator Michael  
22 Bennet (D-CO) in the U.S. Senate. In that capacity, I provided policy expertise, conducted  
23 research, developed legislation, and analyzed regulations. Prior to that, my doctoral (2007-

1           2012) and postdoctoral (2012-2014) research was focused on the tracing of pollutants  
2           emitted during energy generation. My work experience is set forth in detail in my résumé,  
3           attached as Exhibit EIB-1 (LSS-1).

4  
5   **Q.   Summarize your professional development coursework in the field of electric utility**  
6   **regulation.**

7   A.   In August 2017, I completed the EUCI course titled “Optimizing the Interconnection  
8   Process for Renewables & Storage: A National Forum for Addressing Process and  
9   Technical Issues.” In December 2017, I completed the EUCI course titled “The Electric  
10   Vehicle-Utility Industry Nexus.” In January 2018, I completed the EUCI course titled  
11   “Evolution of Electricity Markets: Disruptive Innovation & Economic Impacts: Highly  
12   Interactive Course Designed to Provide A Practical Overview of Evolving U.S. Power  
13   Markets.”

14  
15   **Q.   Have you testified before this Commission or as an expert in any other proceeding?**

16   A.   Yes. I previously testified as an expert witness in Case No. U-20134 (Consumers Energy  
17   general rate case), Case No. U-20165 (Consumers Energy Integrated Resource Plan case),  
18   Case No. U-20162 (DTE Electric general rate case), Case No. U-20471 (DTE Electric  
19   Integrated Resource Plan case), Case No. 18232 (DTE Electric Renewable Energy Plan  
20   case), and Case No. U-20649 (Consumers Energy Voluntary Green Pricing Program case).

21  
22

1 **Q. Have you provided analysis in support of testimony or comments in any other utility**  
2 **regulatory proceeding?**

3 A. Yes. In my roles at Michigan EIBC and IEI, from July 2017 through July 2018, I supported  
4 and reviewed filings made on behalf of the Michigan EIBC/IEI/AEE in Commission Case  
5 Nos. U-18351 and U-18352, focused on the creation of the voluntary green pricing  
6 programs. In March 2018, with input from Michigan EIBC member companies, I provided  
7 comments in Commission Case No. U-20095, focused on the Public Utility Regulatory  
8 Policies Act of 1978 ("PURPA") regulations and capacity determinations. In March and  
9 April 2018, with input from Michigan EIBC member companies, I provided comments and  
10 reply comments in Commission Case No. U-18383, focused on the development of a  
11 distributed generation tariff. In June 2018, with input from Michigan EIBC member  
12 companies, I provided comments in Commission Case No. U-18361, focused on the  
13 development of new code of conduct rules. In October 2018, with input from Michigan  
14 EIBC member companies, I provided comments in Commission Case No. U-20147  
15 regarding the Commission Staff report on distribution system planning. Similarly, in  
16 March 2020, with input from Michigan EIBC member companies, I provided comments in  
17 Commission Case No. U-20147 regarding the updated Commission Staff draft report on  
18 distribution system planning. In November 2020, with input from Michigan EIBC member  
19 companies, I provided comments in Commission Case No. U-20905 regarding the  
20 implementation of FERC Order 872 in Michigan. In addition to this work, I have been  
21 involved on behalf of 5 Lakes Energy and Michigan EIBC in multiple workgroup  
22 proceedings at the Commission, including those focused on the distributed generation  
23 tariff, Integrated Resource Plan requirements, energy waste reduction, and distribution

1 system planning. Over the last year, I have been involved on behalf of Michigan  
2 EIBC/IEI/AEE in the MI Power Grid workshop proceedings at the Commission including  
3 those focused on updating the state’s interconnection rules, demand response, distribution  
4 system planning, pilot programs, competitive procurement, and advanced planning.

5  
6 **Q. Summarize your experiences working with advanced energy companies on issues**  
7 **related to electric utility regulation.**

8 A I have served as the President of Michigan EIBC and IEI since April 2019. Prior to that,  
9 from November 2017 through April 2019, I served as Vice President of Policy  
10 Development for Michigan EIBC and IEI. In these roles, I have led the trade organization’s  
11 work on regulatory and legislative issues. As described above, I have participated in many  
12 workgroups at the Commission and written comments in a number of non-adjudicated  
13 cases. I also communicate formally and informally with Michigan EIBC member  
14 companies about each regulatory proceeding to understand how the advanced energy  
15 industry is affected by each proposed rule or case. Specifically, as it relates to this case, I  
16 coordinated Michigan EIBC/IEI’s intervention in Consumers Energy’s and DTE Electric  
17 Company’s Voluntary Green Pricing cases (Case No. U-18351 and U-18352, respectively).  
18 Throughout these cases, I engaged with Michigan EIBC members to understand the  
19 potential impact of the proposed programs on the advanced energy industry and best  
20 practices from other states. This perspective, in addition to my training and education,  
21 enables me to speak with authority in this case regarding several aspects of DTE Electric  
22 Company’s (“DTE,” “DTE Electric,” or the “Company”) proposed MIGreenPower  
23 Voluntary Renewable Energy Program.

1 **Q. Are you sponsoring any exhibits?**

2 A. Yes, I am sponsoring the following exhibits:

3 1. Exhibit EIB-1 (LSS-1): Résumé of Laura Sherman.

4 2. Exhibit EIB-2 (LSS-2): DTE Discovery response to Michigan EIBC, IEI and AEE;  
5 EIBCIEIAEEDE-1.2a

6 3. Exhibit EIB-3 (LSS-3): DTE Discovery response to Michigan EIBC, IEI and AEE;  
7 EIBCIEIAEEDE-1.7a

8 4. Exhibit EIB-4 (LSS-4): DTE Discovery response to Michigan EIBC, IEI and AEE;  
9 EIBCIEIAEEDE-1.3a

10 5. Exhibit EIB-5 (LSS-5): DTE Discovery response to Michigan EIBC, IEI and AEE;  
11 EIBCIEIAEEDE-1.6b

12 6. Exhibit EIB-6 (LSS-6): DTE Discovery response to Michigan EIBC, IEI and AEE;  
13 EIBCIEIAEEDE-1.4ai

14 7. Exhibit EIB-7 (LSS-7): DTE Discovery response to Michigan EIBC, IEI and AEE;  
15 EIBCIEIAEEDE-1.1a

16 8. Exhibit EIB-8 (LSS-8): DTE Discovery response to Michigan EIBC, IEI and AEE;  
17 EIBCIEIAEEDE-1.1c

18 9. Exhibit EIB-9 (LSS-9): Affidavit of Allen Reese, Director of Development for Pine  
19 Gate Renewables.

20 10. Exhibit EIB-10 (LSS-10): Exhibit 7, “New or Upgraded Purchased Power,”  
21 Consumers Energy Company (“Consumers” or “Consumers Energy”), Case No. U-  
22 20886, dated December 1, 2020.

23

1 **Q. What is the purpose of your Direct Testimony?**

2 A. The purpose of my Direct Testimony is to describe, based on my experiences as the  
3 President of Michigan EIBC and IEI, and based on conversations with Michigan EIBC  
4 member companies, concerns and suggestions regarding DTE Electric’s proposed  
5 “customer-requested project offering,” renewable energy build, and competitive  
6 solicitation for small-scale solar or solar plus storage projects.

7

8 **Customer-Requested Project Offering**

9 **Q. Please describe the customer-requested project offering proposed by DTE Electric.**

10 A. According to Witness Calka,

11 DTE Electric is currently in discussions with several large customers  
12 interested in partnering with the Company to design and construct location-  
13 specific community-solar projects to help them achieve their respective  
14 sustainability aspirations. These projects are one-of-a-kind projects with  
15 unique design criteria based on customer input that do not fit within the  
16 currently-structured Rider 17 and Rider 19 offerings.<sup>1</sup>

17

18 Witness Calka goes on to describe that the costs for each project “will be allocated to the  
19 participating customer(s) for the life of the project . . .”<sup>2</sup>

20

21 **Q. How does the Company propose to limit participation for the customer-requested  
22 offering?**

23 A. According to Witness Calka, any and all commercial or industrial customers of DTE  
24 Electric are eligible to participate in the customer-requested offering. Specifically, Witness

---

<sup>1</sup> Direct Testimony of Brian T. Calka, Case No. U-20713, dated August 31, 2020 (“Calka Direct”), p. 23.

<sup>2</sup> Calka Direct, p. 24.

1 Calka testified that, “[A]s an initial matter, any commercial or industrial customer is  
2 eligible, in that no customers are prohibited from proposing a locally-sited project.”<sup>3</sup>

3

4 **Q. Have you learned anything further about the proposed customer-requested project**  
5 **offering?**

6 A. Yes. I have had several conversations about the customer-requested project offering with  
7 representatives from DTE Electric, including Charles Conlen, Brian Calka, and Lauren  
8 Donofrio. Based on those conversations, I understand that the Company has been contacted  
9 by several municipal, commercial and industrial customers interested in “on-site” solar  
10 projects with specific characteristics (e.g., near the community or on a brownfield site).  
11 These requests are both for on-site behind-the-meter projects as well as front-of-the-meter  
12 projects. According to Witness Calka in a discovery response to Michigan EIBC/IEI/AEE,  
13 “‘on-site’ refers to a location on land that is contiguous with the customer’s premise and  
14 that features a DTE Electric meter, or another location on property owned by or leased on  
15 behalf of the customer or DTE.”<sup>4</sup>

16

17 Additionally, although Witness Calka indicates on page 34 of his Direct Testimony that  
18 the Company anticipates “executing customer-requested project contracts with  
19 municipalities, higher education institutions, and other public-sector entities,” in a  
20 discovery response to Michigan EIBC/IEI/AEE, Witness Calka indicated that “[the]

---

<sup>3</sup> Calka Direct, p. 23.

<sup>4</sup> Exhibit EIB-2, LSS-2.

1 Company has not made the determination to limit participation to municipalities, higher  
2 education institutions, and other public-sector entities.”<sup>5</sup>

3

4 **Q. Do you see any potential benefits of the proposed customer-requested project offering**  
5 **for projects that would be located in front of the meter?**

6 A. Yes. An increasing number of corporations, municipalities, and universities in Michigan  
7 and across the country are setting sustainability and carbon reduction or renewable energy  
8 goals. According to Michigan EIBC/IEI/AEE Witness Caitlin Marquis, in her testimony in  
9 Case No. U-20649 earlier this year,

10 . . . year-end data shows that 2019 was a record-setting year for corporate  
11 renewable energy procurement, with more than 9 GW of deals signed in the  
12 U.S.<sup>6</sup> This continues a steady upward trend over the past several years,  
13 which has resulted in a total of 22 GW of renewable energy procured by  
14 large corporate customers across the U.S. since 2015.<sup>7</sup>

15

16 In the current proceeding, according to Witness Calka, DTE Electric predicts that the Rider  
17 19 program for large customers will increase incrementally each year due to “new leads”  
18 at a rate of “90,000 MWh of incremental growth each year.”<sup>8</sup>

19

20 A subset of these large customers, for a variety of reasons, may wish to generate renewable  
21 energy at a specific location in front of their electric meter to directly offset their electric

---

<sup>5</sup> Exhibit EIB-3, LSS-3.

<sup>6</sup> These data include only large-scale offsite renewable energy deals, and therefore undercounts corporate demand for renewable energy overall. Source: <https://rebuyers.org/deal-tracker/>.

<sup>7</sup> *Id.* Marquis Revised Direct, Case No. U-20649, p. 3.

<sup>8</sup> Calka Direct, p. 30.

1 loads. For example, a municipality may wish to locate a solar array within the boundaries  
2 of the community to provide an educational benefit to residents and as a tangible  
3 representation of their commitment to sustainability. A corporation may own a piece of  
4 non-adjacent abandoned land or a brownfield property that it wishes to redevelop for  
5 renewable energy generation. Unless the industrial customer has a suitable property  
6 adjacent to the electricity load they wish to serve (which would enable a behind-the-meter,  
7 self-service project under Michigan statute MCL 460.10a(4)(a)), the utility’s involvement  
8 is necessary to make these front-of-the-meter projects possible.

9  
10 **Q. Do you support the Company’s request to offer its proposed customer-requested**  
11 **project offering behind-the-meter?**

12 A. At this time, no, I do not.

13  
14 **Q. What concerns do you have with the proposed customer-requested project offering?**

15 A. Although I do believe that there are potential benefits that may result from certain front-  
16 of-the-meter offerings, as outlined above, I am concerned that, as a whole, this customer-  
17 requested project offering, as proposed, is too vague and may allow the Company to  
18 operate in an unregulated, competitive space (behind-the-meter) and put those assets into  
19 the rate base without explicit legislative authority. I am unaware of any legislative authority  
20 for such behind-the-meter generation projects, including specifically under the Voluntary  
21 Green Pricing Program authorized by Public Act 342 of 2016 (“Public Act 342”), and do  
22 not believe that the legislature has expressly considered such authority.

23

1 **Q. How has DTE responded to this concern?**

2 A. According to a discovery response to Michigan EIBC/IEI/AEE,

3 . . . the Company is not proposing, in this case, a particular program. Rather  
4 the Company is exploring ways to satisfy requests that its customers are  
5 making of it, and some of those requests have included behind-the-meter  
6 projects as well as in-front-of-the-meter projects. DTE Electric is not aware  
7 of any legislation that prohibits DTE Electric from building, owning and  
8 operating a generating unit whether it be behind-the-meter or in-front-of-  
9 the-meter, and in fact the Company has previously received Commission  
10 approval for behind-the-meter projects it has constructed for its customers,  
11 albeit outside the VGP space.<sup>9</sup>  
12

13 **Q. Are you aware of any legislation that expressly authorizes the Company to build, own,**  
14 **and operate an electric generation unit behind-the-meter?**

15 A. No, I am not. This is an unregulated market and to my knowledge, the Michigan legislature  
16 has never addressed a regulated utility being able to compete with other unregulated energy  
17 providers in this space.  
18

19 **Q. Has the legislature authorized investor-owned utilities to operate in other, specific**  
20 **unregulated markets?**

21 A. Yes. In 2016, Public Act 341 (“Public Act 341”) explicitly allowed investor-owned utilities  
22 and their affiliates to offer value-added programs and services (“VAPS”) in accordance  
23 with a new code of conduct.<sup>10</sup> According to the statute,

24 The code of conduct shall include, but is not limited to, measures to prevent  
25 cross-subsidization, preferential treatment, and, except as otherwise  
26

---

<sup>9</sup> Exhibit EIB-4, LSS-4.

<sup>10</sup> 2016 PA 341, Sec. 10ee; MCL 460.10ee(1).

1 provided under this section, information sharing, between a utility's  
2 regulated electric, steam, or natural gas services and unregulated programs  
3 and services, whether those services are provided by the utility or the  
4 utility's affiliated entities.<sup>11</sup>  
5

6 **Q. Is it your understanding that VAPS would include regulated utility development of**  
7 **generation behind-the-meter?**

8 A. No. I am not aware of any legislative discussions or considerations of behind-the-meter  
9 generation development by regulated utilities in the development of the Code of Conduct  
10 provision for VAPS,<sup>12</sup> nor has the Company provided any such references.  
11

12 **Q. Why is adherence to the Code of Conduct for VAPS important?**

13 A. After Public Act 341 was signed into law, the Commission instituted a process to develop  
14 a Code of Conduct. Michigan EIBC and IEI participated in the stakeholder groups and  
15 Commission cases that led to the issuance of the current Code of Conduct in December  
16 2018. Throughout that process, we urged the Commission to ensure that any unregulated  
17 VAPS governed by the Code of Conduct maintain the appropriate market and regulatory  
18 structures to ensure that the programs function independently, share information in a fair  
19 manner to ensure competition, and avoid creating market power conflicts.  
20

21 The Code of Conduct provides a clear template that governs the interactions and activities  
22 of utilities and utility affiliates with and within unregulated markets. Specifically, a utility

---

<sup>11</sup> *Id.*

<sup>12</sup> 2016 PA 341, Sec. 10ee; MCL 460.10ee.

1 is not allowed to “offer unregulated value-added programs and services except through an  
2 affiliate or other entity within the corporate structure, or through a third-party contract.”<sup>13</sup>  
3 Additionally, a utility and its affiliate are not allowed to engage in joint advertising or joint  
4 selling of regulated and unregulated VAPS.<sup>14</sup> Finally, information that a utility has as part  
5 of its regulated business cannot be shared with its affiliates or other entities offering VAPS  
6 (e.g., customer-specific information).<sup>15</sup>

7  
8 For VAPS in cases where competitive markets are functioning and/or could be developed,  
9 even an implicit extension of a regulated utility’s monopoly position is inappropriate  
10 because such an extension could result in the undue restraint of trade or competition in  
11 markets served by competitive providers.

12  
13 **Q. Has the legislature provided similar authority and guidelines for the investor-owned**  
14 **utilities to participate in the unregulated behind-the-meter generation market?**

15 A. No. I am unaware of any such legislative authority and do not believe that the legislature  
16 has expressly considered such authority. Additionally, such authority was not granted in  
17 Section 61 of PA 342 of 2016. As described further below, this is especially concerning  
18 for such programs where the utility is able to put renewable generation assets into the rate

---

<sup>13</sup> Order No. U-18361; R 460.10103(2).

<sup>14</sup> Order No. U-18361; R 460.10106(1).

<sup>15</sup> Order No. U-18361; R 460.10109(3).

1 base to enable financing of those assets over the lifetime of the asset. As noted by Witness  
2 Calka in a discovery response to Michigan EIBC/IEI/AEE, “the Company has previously  
3 received Commission approval for behind-the-meter projects it has constructed for its  
4 customers, albeit outside the VGP space.”<sup>16</sup>

5  
6 **Q. Do you have concerns about the potential authorization for the Company to construct**  
7 **behind-the-meter projects specifically under the Voluntary Green Pricing Program?**

8 A. Yes. I am concerned that the Company, as a regulated monopoly, possesses certain benefits  
9 that afford it an unfair competitive advantage over third parties in the unregulated behind-  
10 the-meter solar market, especially under programs such as the Voluntary Green Pricing  
11 Program.

12  
13 Because the customer-requested project offering is proposed as a Section 61 Voluntary  
14 Green Pricing Program offering, by definition, participating customers would pay all of the  
15 costs associated with the offering, but these costs are determined on a levelized per kWh  
16 basis over an expected long-term contract. As explained by Witness Calka in a discovery  
17 response to Michigan EIBC/IEI/AEE, the Company envisions that contracts under the  
18 customer-requested project offering will be of standard term lengths, likely between 20 and  
19 35 years.<sup>17</sup> Practically, this means that the Company will add these solar assets to the rate  
20 base and a customer who signs up with the Company for a project under this Section 61  
21 offering will be able to pay back the cost of the installation over a contract term of between

---

<sup>16</sup> Exhibit EIB-4, LSS-4.

<sup>17</sup> Exhibit EIB-5, LSS-5.

1           20 and 35 years on their utility bill. No unregulated market participant would be able to  
2           provide similarly favorable financing terms and would thereby be unfairly disadvantaged  
3           in this unregulated market by the participation of the regulated utility.

4  
5           Furthermore, as described in more detail below, the Commission has not yet made a  
6           determination on how these proposed behind-the-meter installations should be addressed  
7           within a utility’s rate base. Specifically, in its order establishing the “New Technologies  
8           and Business Models” workgroup, the Commission noted that the “Commission has not  
9           determined whether or not [owning and rate-basing behind-the-meter resources] is a  
10          suitable role for the regulated utility (under VGP or otherwise) . . . .”<sup>18</sup>

11  
12   **Q.    Do you have any additional concerns?**

13   A.    Yes. The Company has access to customer data that are not provided publicly including,  
14          but not limited to, contact information, electricity load data, and information regarding  
15          engagement in prior utility programs. This can allow for an unfair advantage in identifying  
16          and contacting potential commercial and industrial customers who might be interested in a  
17          behind-the-meter solar system.

18  
19          In addition, I am concerned that third-party developers who have spent significant time and  
20          funds identifying potential customers and preparing proposals may lose those customers in  
21          a disadvantaged manner to the Company. A third-party developer may, for example, spend

---

<sup>18</sup> MPSC Order No. U-20898, *In the matter, on the Commission’s own motion, to commence a collaborative to consider issues related to implementation of effective new technologies and business models*, dated October 29, 2020 (“Order No. 20898”), p. 4, fn 7.

1 staff time to educate a potential customer about behind-the-meter solar, model the  
2 customer’s load and solar needs, and develop a proposal, only to have the customer decide  
3 to utilize the utility’s financing option through this offering. Of course, it is not expected  
4 that a developer will win a contract to build every project that they scope, but in an  
5 unregulated market, all competitors should be subject to the same competitive forces and  
6 operate on a level playing field. Entry by a regulated monopoly into this market would  
7 create an unfair playing field.

8  
9 **Q. Does the fact that this offering is proposed not as a program, but on a strictly case-**  
10 **by-case basis mitigate these concerns?**

11 A. No. None of my concerns as outlined above would be addressed by the case-by-case nature  
12 of this offering. As outlined in a discovery response to Michigan EIBC/IEI/AEE, the  
13 Company “does not propose to engage stakeholders prior to presenting any customer-  
14 requested contracts to the Commission for approval.”<sup>19</sup> Given that these contracts would  
15 be presented for *ex-parte* approval, it would be very difficult, if not impossible, for  
16 stakeholders to review the bid selection process and evaluate a given project each time the  
17 utility presents one. As a result, it would be impossible to determine whether or not the  
18 utility was being unfairly advantaged in the unregulated behind-the-meter market.  
19 Furthermore, once the utility has contracted with the customer and is presenting the  
20 agreement to the Commission for approval, competitive providers have already been shut  
21 out of the customer's project evaluation process.

---

<sup>19</sup> Exhibit EIB-6, LSS-6.

1 **Q. How is this proposed customer-requested project offering similar to the “Bring Your**  
2 **Own Bright Field” Program proposed by Consumers Energy in Case No. U-20649?**

3 A. In Case No. U-20649, Consumers Energy proposed a new “Bring Your Own Bright Field”  
4 Pilot Program (“Program” or “Pilot”). The Program would have allowed commercial and  
5 industrial customers with greater than 1 MW of demand to install Company-owned behind-  
6 the-meter solar energy on-site. The customer would have used all of the electricity  
7 generated by the solar system on-site and paid a subscription charge for that energy on a  
8 levelized per kWh basis.

9  
10 Although the customer-requested project offering proposed by DTE Electric is not a  
11 program and might not, therefore, attract the same number of customers as the proposed  
12 Consumers Energy pilot program, the offering proposed by DTE similarly represents entry  
13 of a regulated utility into the unregulated behind-the-meter generation market with a rate-  
14 based offering. Furthermore, the lack of "program" status for the DTE proposal would  
15 conceivably allow the utility to select customers in a manner that would ultimately make it  
16 more difficult for competitors to offer proposals in DTE's service territory.

17  
18 **Q. What did the Commission decide regarding the “Bring Your Own Bright Field” Pilot**  
19 **Program in Case No. U-20649?**

20 A. The Commission issued an Order in Case No. U-20649 on September 24, 2020. In that  
21 Order, the Commission declined to approve the “Bring Your Own Bright Field” Pilot  
22 Program, citing a range of concerns. The Commission wrote:

1           However, the Commission has several reservations regarding the BYOBF  
2 pilot and finds that approval is not appropriate at this time. The  
3 Commission’s concerns are as follows: (1) the role of the utility in the  
4 behind-the-meter development market, the implications of putting host site  
5 solar assets into rate base, and the accounting treatment for the program  
6 have not been sufficiently explained or justified; (2) Consumers’ agreement  
7 to adhere to the Code of Conduct is limited and the Commission finds the  
8 nature of the program may warrant additional analysis, especially if any  
9 affiliates are involved, and a more thorough consideration of the utility’s  
10 role in serving a growing, competitive behind-the-meter solar market; and  
11 (3) the company stated its intent to use a competitive bidding process to  
12 supply the BYOBF pilot but failed to provide any meaningful detail as to  
13 the competitive bidding framework.

14           The Commission finds that additional information and deliberation is  
15 needed before the Commission considers approval of the BYOBF pilot or a  
16 similarly structured program. The Commission expects to commence  
17 additional stakeholder workgroups in the MI Power Grid initiative that are  
18 well-suited to explore the potential of this program as well as the  
19 implications and to explore the concerns raised by the Commission. The  
20 Commission encourages Consumers to present the BYOBF pilot program  
21 in the emerging technologies and business models workgroup and work  
22 with the Staff and stakeholders to address the concerns raised in this docket.  
23 The company is not precluded from re-filing the program in the October  
24 2021 biennial VGP filing with additional detail for the program as well as  
25 any revisions or lessons learned from participation in the MI Power Grid  
26 initiative.<sup>20</sup>

27           Subsequent to the issuance of the Order in Case No. U-20649, the Commission issued an  
28 order on October 29, 2020, in Case No. U-20898 (“Order U-20898”),<sup>21</sup> that instituted a  
29 new stakeholder workgroup within MI Power Grid, entitled the “New Technologies and  
30 Business Models” workgroup. The Commission noted in Order U-20898 that with respect  
31 to utility engagement in behind-the-meter solar developments:

32           In the September 24, 2020 order in Case No. U-20649, pp. 50-56, the  
33 Commission declined to approve the Bring Your Own Bright Field program

---

<sup>20</sup> MPSC Order No U-20649, *In the matter of the application of Consumers Energy Company for approval of Voluntary Green Pricing programs pursuant to Section 61 of 2016 PA 342*, dated September 24, 2020 (“Order No. U-20649”), pp. 55-56.

<sup>21</sup> Order No. 20808, p. 4, fn 7.

1 as part of Consumers’ voluntary green pricing (VGP) portfolio and provided  
2 direction for the Staff, the utility, and stakeholders to discuss (as part of the  
3 MI Power Grid initiative) issues related to the utility’s role in owning and  
4 operating BTM solar. The Bring Your Own Bright Field program, as  
5 proposed by Consumers, would have involved the utility facilitating  
6 customers’ application of BTM solar and potentially battery storage, with  
7 the utility owning the equipment as a rate-based asset. *Id.* The Commission  
8 has not determined whether or not this is a suitable role for the regulated  
9 utility (under VGP or otherwise), what guidelines are necessary should the  
10 utility or affiliate be engaged in this activity, or whether this activity is  
11 appropriate as a value-added service pursuant to MCL 460.10ee.<sup>22</sup>  
12

13 **Q. What aspects of the Orders in Case No. U-20649 and Case No. U-20898 are applicable**  
14 **to DTE Electric’s proposed customer-requested project offering?**

15 A. It is clear from the Commission’s Order in Case No. U-20649 that Michigan  
16 EIBC/IEI/AEE’s concerns regarding the role of the utility in the behind-the-meter market,  
17 the role of utility affiliates, and the competitive procurement process resonated with the  
18 Commission.

19  
20 In this case, I would encourage DTE Electric to similarly limit the customer-requested  
21 project offering in the current proceeding to only front-of-the-meter projects. The  
22 Company should engage stakeholders through the MI Power Grid process and the “New  
23 Technologies and Business Models” workgroup in a discussion of the appropriate scope  
24 and role of the utility in behind-the-meter generation.  
25

---

<sup>22</sup> *Id.*, p. 4, footnote 7.

1 Finally, as discussed below, it is important that the Company more clearly and carefully  
2 determine and describe the competitive procurement processes that will be used to provide  
3 the resources requested through this offering.

4

5 **Q. Does the Company propose to use a specific competitive procurement process to**  
6 **develop and build projects for the customer-requested project offering?**

7 A. The Company does not describe the process they plan to use to develop and build projects  
8 for the customer-requested project offering. It is not clear if the Company plans to involve  
9 third parties or utility affiliates and what procurement process would be utilized.

10

11 **Q. Do you have any suggestions for this process?**

12 A. Yes. If the Company moves forward with front-of-the-meter projects through the customer-  
13 requested project offering, to determine the lowest cost, most reasonable and prudent  
14 resources and ownership models, it is best practice to utilize fair, transparent, and inclusive  
15 competitive bidding processes. Although I understand that a given customer may want to  
16 be involved in the determination of what company would develop and build a project to  
17 meet their needs, it is still important that certain best practices are adhered to. There are a  
18 number of well-regarded organizations that provide practical explanations of how an  
19 effective competitive bidding process should be designed. According to the National  
20 Association of Regulatory Utility Commissioners (“NARUC”),<sup>23</sup> the competitive bidding

---

<sup>23</sup> Tierney, S. F. and Schatzki, T. 2008. “Competitive Procurement of Retail Electricity Supply: Recent Trends in State Policies and Utility Practices,” available at [http://www.analysisgroup.com/uploadedfiles/content/insights/publishing/competitive\\_procurement.pdf](http://www.analysisgroup.com/uploadedfiles/content/insights/publishing/competitive_procurement.pdf), last accessed April 28, 2020.

1 process should be “designed to encourage a competitive response from the market.” Public  
2 Act 295 of 2008 (MCL 460.1001 Sec.1(2)(c)) similarly establishes the goal of  
3 “[encouraging] private investment in renewable energy and energy efficiency.”  
4

5 **Q. What specific processes could the Company follow to ensure that any process is fair,**  
6 **transparent, and inclusive?**

7 A. According to NARUC, it is critical that any competitive bidding process be fair and  
8 objective.<sup>24</sup> It is important that there is no real or perceived preference given to proposals  
9 offered by utilities or utility affiliates. It is also important, even for these customer-  
10 requested projects, that the Company solicit bids with an open solicitation to ensure all  
11 interested parties are able to participate, thereby decreasing costs for the customer. Finally,  
12 it should be made clear to all parties how bids will be evaluated and, specifically, what  
13 non-price factors will be considered. For example, if the customer and the Company prefer  
14 bids which use Michigan-made materials, that should be made clear to all participants.  
15

16 **Community Solar**

17 **Q. What does the Company propose in this filing with respect to community solar?**

18 A. According to Witness Calka,  
19 DTE Electric is currently in discussions with several large customers  
20 interested in partnering with the Company to design and construct location-  
21 specific community-solar projects to help them achieve their respective  
22 sustainability aspirations.<sup>25</sup>  
23

---

<sup>24</sup> *Id.*

<sup>25</sup> Calka Direct, p. 23.

1 **Q. What does “community-solar” mean in the context of this proposal?**

2 A. According to Witness Calka in a discovery response to Michigan EIBC/IEI/AEE,

3 As described in U-18232 SDE-1.2a Discovery Response, the Company  
4 does not have a single definition of community solar; rather community  
5 solar is a classification that encompasses multiple different models that  
6 typically includes a central solar renewable energy source.<sup>26</sup>  
7

8 **Q. What characteristics do you understand to be important to the definition of**  
9 **community solar?**

10 A. According to business members of Michigan EIBC and AEE, there are several important  
11 characteristics of community solar programs. These include the ability for third parties to  
12 own the solar system, fair and transparent competition to allow developers to build and  
13 operate projects, locally-sited projects, and virtual metering for subscriber bill credits.  
14 Michigan EIBC and AEE business members also note that subscribers should be limited to  
15 those in a given utility’s territory and there should be a limit on the percentage of the  
16 facility’s capacity that can be subscribed to by any given subscriber. Many Michigan EIBC  
17 and AEE business members also support carve outs or incentives to encourage participation  
18 in community solar programs from low-and-middle income subscribers. Finally, Michigan  
19 EIBC and AEE have consistently supported development of hosting capacity maps for  
20 improved distribution system planning and siting of renewable energy projects such as  
21 community solar developments.  
22

---

<sup>26</sup> Exhibit EIB-7, LSS-7.

1 The Coalition for Community Solar Access similarly lists among its core principles for  
2 community solar:<sup>27</sup>

- 3 • Allow all customers the opportunity to participate in and directly  
4 economically benefit from the construction and operation of new clean  
5 energy assets.
- 6
- 7 • Provide equal access for developers to build and operate community  
8 solar projects and interconnect those projects to the serving utility's  
9 grid.
- 10
- 11 • Incorporate a fair bill credit mechanism that provides subscribers with  
12 an economic benefit commensurate with the value of the long-term,  
13 clean, locally-sited energy produced by community solar projects.
- 14

15 **Q. Is there demand for community solar in Michigan?**

16 A. Yes. There is significant demand in Michigan for community solar as evidenced by the  
17 number of municipalities, academic institutions, and corporations with carbon reduction  
18 and renewable energy goals. According to a study conducted by GTM Research, although  
19 Michigan lags currently in the deployment of community solar, with the right policies and  
20 programs in place, by 2030 community solar could represent 1.5% to 2.4% of retail  
21 electricity sales and serve up to 288,000 subscribers.<sup>28</sup>

22

23 **Q. Does the customer-requested project offering, as presented by DTE Electric, adhere**  
24 **to the above-described principles for community solar?**

---

<sup>27</sup> Coalition for Community Solar Access. <http://www.communitysolaraccess.org/wp-content/uploads/2019/04/2019CommunitySolarPolicyMatrix-2.pdf>.

<sup>28</sup> *The Vision for U.S. Community Solar: A Roadmap to 2030*, July 2018, prepared by GRM Research on behalf of Vote Solar. Available [https://solstice.us/media\\_center/vote-solar-community-solar-roadmap-2030/](https://solstice.us/media_center/vote-solar-community-solar-roadmap-2030/)

1 A. No. It does not appear that the customer-requested project offering meets any of these  
2 principles for community solar. In fact, it is unclear to me that the offering proposes a  
3 community solar program of any type. For example, in response to a discovery question  
4 from Michigan EIBC/IEI/AEE, Witness Calka indicated that “[the] Company does not plan  
5 to conduct virtual metering for customers who participate.”<sup>29</sup> It is fundamental to any  
6 community solar project that subscribers receive a bill credit (via virtual metering) for the  
7 electricity produced by their portion of the community solar project.

8

9 **Q. Is there a way in which the customer-requested project offering could incorporate a**  
10 **community solar offering?**

11 A. Yes, I believe it would be possible to conduct a pilot community solar offering as part of  
12 the proposed customer-requested project offering. Although such an offering would not  
13 likely incorporate all of the characteristics of community solar described above, it could  
14 incorporate some of the characteristics. For example, a municipality could request the  
15 construction of a 10 MW solar array within their community. The municipality would sign  
16 a contract with DTE Electric to pay for the entire cost of the project, thereby eliminating  
17 any perceived risk on the part of the utility related to a lack of future subscribers. DTE  
18 Electric, with appropriate input from the municipality, would conduct a fair and transparent  
19 competitive procurement process to develop and build the project. The municipality and/or  
20 the utility could then recruit subscribers who would be given an electric bill credit for their  
21 subscription. Although this arrangement would not meet all of the principles for  
22 community solar as outlined above, it would be an initial step toward achieving a more

---

<sup>29</sup> Exhibit EIB-8, LSS-8.

1 community-driven approach to community solar that also takes advantage of the  
2 competitive market.

3

4 **Ownership Models**

5 **Q. What new resources does the Company predict it will need to fulfill demand for the**  
6 **Voluntary Green Pricing Program?**

7 A. According to the Company’s filing in this case,

8 The Company proposes to meet its forecasted subscribed MWh through  
9 2025 with a build plan that includes addition of new renewable resources of  
10 420 MW in 2022, 62 MW in 2023, 183 MW in 2024, and 132 MW in 2025.  
11 . . . The 420 MW of new renewables will be filled by projects selected from  
12 the Company’s Fall 2019 Requests for Proposals (RFPs) and includes  
13 various ownership structures including power purchase agreement (PPA)  
14 and tax-equity financing.<sup>30</sup>

15 **Q. What does the Company propose with respect to PPAs in this case?**

16 A. According to Witness Calka in Direct Testimony,

17 The Company requests Commission approval of an FCM structure that  
18 would be included with renewable energy PPAs submitted to the MPSC for  
19 approval for utilization in the MIGreenPower program. The requested  
20 structure would authorize the Company to earn an FCM on a given PPA  
21 equal to the sum of the PPA payments in that year multiplied by an incentive  
22 factor. The incentive factor would be equal to the Company’s authorized  
23 permanent after-tax weighted-average cost of capital (WACC) approved by  
24 the Commission at the time the contract is approved and would apply for  
25 the entire term of the contract.<sup>31</sup>

---

<sup>30</sup> Application of DTE Electric Company, Case No. U-20713, dated August 31, 2020 (“Application”), PP 12-13; p. 4.

<sup>31</sup> Calka Direct, p. 40.

1 **Q. Do you believe it is appropriate for a utility, in general, to seek a financial**  
2 **compensation mechanism (“FCM”) for PPAs?**

3 A. Yes, in general. However, because I am not a finance expert, I do not intend to comment  
4 on the specific methodology that DTE Electric proposes to determine the FCM in the  
5 current proceeding. Generally, there are strong existing financial incentives for a utility  
6 like DTE Electric to build and own all of the facilities from which the utility obtains  
7 electricity and a lack of incentives for the utility to contract for electricity using PPAs. This  
8 can create a situation where an investor-owned utility is strongly incentivized to avoid  
9 projects other than those that they build themselves or purchase from a developer after  
10 construction is complete. Section 6t(15) of Public Act 341 of 2016<sup>32</sup> established the ability  
11 for the Commission to authorize an FCM for PPAs. It is my understanding that the intent  
12 of this legislation was to change the utility’s financial incentives and put PPAs on a more  
13 equal footing with Company-owned projects.

14  
15 Although each developer has a different business model, under certain circumstances, a  
16 developer may prefer to pursue a deal using a PPA rather than a build-transfer agreement.  
17 In this situation, it would be beneficial to the developer if their interests were aligned with,  
18 rather than at odds with, the utility conducting the competitive bidding process and  
19 contracting for the resources.

20  
21  
22

---

<sup>32</sup> MCL 460.6t(15).

1 **Q. What basic principles should apply to any future FCM?**

2 A. It is critical that calculation of any future FCM is transparent and understandable to all  
3 potential participants in a given competitive bidding process. Potential bidders should be  
4 able to easily calculate exactly what price mark-up to expect for a proposed PPA project in  
5 comparison to a build-transfer or Company-owned project. This requires that granular  
6 information on the FCM be provided to potential participants.

7  
8 **Q. Please describe the “50/50 split.”**

9 A. In Public Act 295 of 2008 (2008 PA 295, MCL 460.1001, *et seq.*), there was a provision  
10 commonly referred to as the “50/50 split,”<sup>33</sup> which required utilities to purchase a minimum  
11 50 percent of the renewable energy required to meet the Renewable Portfolio Standard  
12 from third-party developers using PPAs. The remaining 50 percent could be met using  
13 Company-owned resources. This provision was removed with the passage of Public Act  
14 342 in 2016.

15  
16 **Q. Have there been subsequent decisions related to this “50/50 split” in recent cases  
17 before the Commission?**

18 A. Yes. In the Consumers Energy Integrated Resource Plan case (Case No. U-20165), the  
19 parties reached a settlement agreement which included, at the request of Michigan  
20 EIBC/IEI, a provision requiring that

21 ... new capacity that the Company intends to procure through the PCA, in  
22 each annual solicitation, shall be: (i) acquired through a competitive bidding  
23 process; and (ii) 50% will be from PPAs and 50% will be owned by the

---

<sup>33</sup> See Sec. 33(1)(b); MCL 460.1033(1)(b).

1 Company, as acquired through a competitive bidding process. The  
2 Company, at its sole discretion, may choose to acquire more than 50% of  
3 its new capacity from PPAs. The parties further agree that the Company’s  
4 affiliates will be prohibited from bidding on the portion of the Company’s  
5 new capacity acquired from PPAs.<sup>34</sup>

6  
7 Additionally, in the DTE Renewable Energy Plan Case (Case No. U-18232), the  
8 Commission noted in their Order on July 18, 2019 that DTE Electric misinterpreted the  
9 removal by Public Act 342 of the Public Act 295 provision that no more than 50% of an  
10 electric provider’s RECs could come from renewable generation owned by the electric  
11 provider to mean that “the company has ‘unfettered discretion to choose to pursue only  
12 company-owned renewable generation.’” (Case No. U-18232, July 18, 2019, Order at 9).

13  
14 **Q. Do you have a proposal regarding use of the FCM to encourage increased use of PPAs**  
15 **by the Company?**

16 A. Yes. As stated, an FCM can ensure that the interests of a third-party developer are aligned  
17 with the interests of a utility conducting a competitive bid process and contracting new  
18 renewable energy resources. To fulfill demand for the Voluntary Green Pricing Program,  
19 DTE Electric predicts it will need nearly 400 MW of additional renewable resources by  
20 2025 beyond the 420 MW it will need in 2022.<sup>35</sup> Given that the Company proposes a  
21 mixture of Company-owned and PPA resources using an FCM in the current proceeding,  
22 I would suggest that it makes sense moving forward to ensure that both of these types of

---

<sup>34</sup> Settlement Agreement in Case No. U-20165. Filed March 23, 2019. pp. 8-9.

<sup>35</sup> *In the matter, on the Commission's own motion, regarding the regulatory reviews, revisions, determinations, and/or approvals necessary for DTE Electric Company to fully comply with Public Act 295 of 2008, MPSC Case No: U-20851 (“Case No. U-20851”), p. 3.*

1 resources are considered to ensure the least cost, most prudent resource choices to meet  
2 customer demand. This could be done by implementing a “50/50 split” for future resources  
3 built to meet demand for the Company’s Voluntary Green Pricing Program.  
4

5 **Small-Scale Competitive Procurement**

6 **Q. What does the Company propose with respect to smaller renewable energy projects?**

7 A. According to the Direct Testimony of Witness Calka,

8 It is the Company’s intent to work with the appropriate stakeholders,  
9 including the Commission’s Staff, to design an appropriate competitive  
10 solicitation for small-scale solar or solar plus storage projects (i.e., projects  
11 less than 25MW) with CODs in 2022 and 2023, which we anticipate would  
12 occur before the end of the year.<sup>36</sup>

13  
14 **Q. Why is the Company proposing to issue a competitive solicitation for small-scale solar  
15 or solar plus storage projects?**

16 A. The Direct Testimony of Witness Calka poses the following question: “In its July 9 order  
17 in U-18232, the Commission encouraged DTE Electric to consider opportunities for  
18 smaller renewable energy projects to participate. Will the Company provide this  
19 opportunity?”<sup>37</sup> Based on this question and my conversations with the Company, it is my  
20 understanding that the Company plans to issue such a competitive solicitation for small-  
21 scale solar or solar plus storage projects to alleviate concerns posed by the Commission in  
22 its July 9, 2020 Order in Case No. U-18232.

---

<sup>36</sup> Calka Direct, p. 34.

<sup>37</sup> *Id.*

1 **Q. Did you provide testimony in Case No. U-18232 on these issues?**

2 A. Yes. In Case No. U-18232, on behalf of the Environmental Law & Policy Center, The  
3 Ecology Center, The Solar Energy Industries Association, and Vote Solar, I provided  
4 testimony on these issues. This testimony stated, in part, that

5 . . . it is important that the RFP be as open as possible to a variety of  
6 technologies and all sizes of projects. Rather than pre-determining the  
7 outcome, it is important to find the most cost-effective, appropriate, and  
8 advantageous solution for a given capacity or resource need. It is not  
9 reasonable to assume that a utility, without the benefit of an RFP that is  
10 open to all technologies, would have a complete and accurate understanding  
11 of the cost-effective options available in the market.<sup>38</sup>

12

13 My testimony went on to note, in reference to the fact that the Company’s Fall 2019 RFP  
14 required solar projects to be at least 25 MW in size,

15 Not only do these size restrictions potentially limit a competitive response  
16 from the market, but also, the size restrictions eliminate consideration of  
17 any PURPA QFs. Given that PURPA QFs could effectively meet the  
18 Company’s resource needs, it was discriminatory against those projects to  
19 categorically exclude them from consideration during the bidding process.<sup>39</sup>

20

21 **Q. What did the Commission indicate on this issue in its July 9, 2020 Order in Case No.  
22 U-18232?**

23 A. In its July 9, 2020 Order in Case No. U-18232, the Commission indicated that

24 While the Commission is approving DTE Electric’s REP as meeting the  
25 requirements of MCL 460.1022, it also acknowledges the validity of a  
26 number of the concerns raised by intervenors. Regardless of whether it was

---

<sup>38</sup> Sherman Direct Testimony, Case No. U-18232, p. 14.

<sup>39</sup> Sherman Direct Testimony, Case No. U-18232, p. 18.

1 intentional, the size limitations for both wind and solar projects had the  
2 effect of limiting the pool of projects eligible to respond to the RFPs. . . .  
3 As DTE Electric considers additional projects to meet other drivers of  
4 renewable energy demand – including specifically in its VGP plan filing in  
5 August – the Commission strongly encourages the company to find  
6 opportunities to allow these projects to be submitted for consideration.<sup>40</sup>

7  
8 **Q. Setting aside the Fall 2019 RFP issued by DTE Electric, what other challenges do**  
9 **small projects face with the interconnection process in DTE Electric’s territory?**

10 A. Setting aside issues with the recent RFP and concerns regarding the determination of  
11 avoided capacity costs, based on conversations with Michigan EIBC business members, I  
12 understand that there are a number of challenges associated with the interconnection  
13 process in DTE Electric’s territory. As described in an Affidavit from Allen Reese, Director  
14 of Development for Pine Gate Renewables, the costs for engineering and distribution  
15 studies conducted by the Company are significantly higher than those for Consumers  
16 Energy.<sup>41</sup> Specifically, as detailed by Mr. Reese, all 14 projects developed by Pine Gate  
17 Renewables that will finish construction in Consumers Energy’s service territory by  
18 January 2021 underwent “Engineering Reviews and Distribution Studies for \$1,200 and  
19 \$5,000 respectively and have average interconnections facility upgrade costs of \$187,000  
20 at an average cost of \$0.09/W (AC).”<sup>42</sup> In contrast, Glasgow Solar, LLC, the one similarly-  
21 sized project that Pine Gate’s predecessor, Cypress Creek Renewables, LLC, submitted for  
22 interconnection with DTE Electric, was charged a total of \$28,460 for the Engineering

---

<sup>40</sup> Commission Order, July 9, 2020, U-18232, p. 42.

<sup>41</sup> Exhibit EIB-9, LSS-9.

<sup>42</sup> Exhibit EIB-9, LSS-9.

1 Review and a total of \$77,436.15 for the Distribution Study, which cited “\$1,827,801 as  
2 Total Construction Cost, a 61% increase over what was shown in the Engineering Review  
3 Report and 870% above the average interconnection facilities cost of Pine Gate’s 14  
4 Consumers projects.”<sup>43</sup>

5  
6 It is clear from Mr. Reese’s Affidavit, as well as from my conversations with other business  
7 members of Michigan EIBC, that the Company’s interconnection costs are higher than  
8 those of Consumers Energy, uncertain and unpredictable, and deter development of  
9 renewable energy systems, especially smaller projects. These issues of high, uncertain  
10 costs are especially challenging for smaller projects such as those excluded from the Fall  
11 2019 RFP (i.e., <25 MW). This is because these smaller projects cannot take advantage of  
12 economies of scale and therefore have more narrow profit margins than larger renewable  
13 energy projects.

14  
15 **Q. Why are interconnection studies conducted by DTE Electric more expensive?**

16 A. In conversations with DTE Electric, the Company has indicated to me that their studies are  
17 more expensive because the data they provide is of a higher quality and because the  
18 Company does not conduct these studies in-house. I am not an interconnection engineer  
19 nor a project developer, so I am unable to comment on the relative value of the data gained  
20 from a study performed by DTE Electric versus that gained from a study performed by  
21 another utility.

22  

---

<sup>43</sup> *Id.*

1 **Q. Are you aware of any small solar projects that have completed the interconnection**  
2 **study process with another Michigan investor-owned utility and begun operating?**

3 **A.** Yes. As shown in the Affidavit from Mr. Reese, Pine Gate Renewables has successfully  
4 undergone full interconnection study and paid for facilities upgrades for 14 projects  
5 totaling 28MW<sub>AC</sub> in Consumers Energy’s territory.<sup>44</sup> These projects will complete  
6 construction by the end of January 2021.

7  
8 In addition, according to Consumers Energy’s capacity report filing in Case No. U-20886  
9 from December 1, 2020,<sup>45</sup> Consumers Energy has multiple small (20 MW or smaller) solar  
10 projects interconnecting to their distribution system with expected commercial operation  
11 dates in 2019 (n = 1), 2020 (n = 16), 2021 (n = 9), 2022 (n = 11) and 2023 (n = 9).  
12 Construction has already begun on many of these projects and has been completed for some  
13 of them.<sup>46</sup> Some of these projects are presumably those described by Mr. Reese.<sup>47</sup>

14  
15 Based on Consumers’ capacity report filing and the Affidavit provided by Mr. Reese from  
16 Pine Gate Renewables, the data provided by the interconnection studies conducted by  
17 Consumers Energy does appear to be sufficient to enable projects to move forward  
18 successfully to the construction and operation phases.

19

---

<sup>44</sup> Exhibit EIB-9, LSS-9.

<sup>45</sup> Exhibit EIB-10, LSS-10.

<sup>46</sup> *Id.*

<sup>47</sup> Exhibit EIB-9, LSS-9.

1 **Q. Are there any other challenges that small projects face with the interconnection**  
2 **process in DTE Electric’s territory?**

3 **A.** Yes. For all developers proposing projects in DTE Electric’s territory, it is difficult, if not  
4 impossible, to know where a project is in the interconnection queue relative to other  
5 projects. This is because the Company provides no public interconnection queue. This is  
6 in contrast to Consumers Energy, which maintains a publicly available interconnection  
7 queue readily obtained with a simple internet search.<sup>48</sup> In the upcoming year, DTE Electric  
8 will likely be required to compile and provide a similar public interconnection queue once  
9 the ongoing update to Michigan’s Interconnection and Distributed Generation Standards is  
10 final.

11  
12 **Q. Do you have any additional suggestions with respect to any future small-scale**  
13 **competitive procurement?**

14 **A.** Yes. As described above, whatever methodology the Company uses to execute such a  
15 small-scale competitive procurement, it should be fair, transparent, and inclusive. In  
16 general, this means that all bidders should have access to information about bid evaluations,  
17 any required contract terms or standard contract language, and any FCM that will be added  
18 to PPA proposals.

19  
20 In addition, as described above, to ensure an open and inclusive process, the Company  
21 should allow both PPA and Company-owned projects with a certain percentage of the total

---

<sup>48</sup> Consumers Energy. Generator interconnection status report. <https://www.consumersenergy.com/-/media/CE/Documents/renewables/generator-interconnection/generator-interconnection-status-report.ashx?la=en&hash=DB1CC52718ADDCBD43ECCE8C6909DE38>.

1 MW (e.g., 50 percent) reserved for PPA projects. If this practice were instituted, it would  
2 be reasonable for the Company to request a reasonable FCM for any chosen PPA projects.

3  
4 Finally, given that small projects have not been able to progress in DTE Electric’s territory  
5 for quite some time, it would make sense to allow all projects with complete  
6 interconnection applications in the interconnection queue by the date of the final order in  
7 this case to compete in the small-scale project competitive solicitation. There may be any  
8 number of projects which have not yet been placed in the queue because there have not  
9 been opportunities to successfully interconnect these projects to the Company’s  
10 distribution system. The purpose of this offering is not, and should not become, to clear the  
11 Company’s interconnection queue. That queue clearing process will be undertaken with  
12 the first transition batch as soon as the new Interconnection and Distributed Generation  
13 Standards are effective. Instead, the purpose of this competitive solicitation should be to  
14 construct the best, most prudent projects to serve the needs of customers in the Voluntary  
15 Green Pricing Program.

16  
17 **Conclusions and Recommendations**

18 **Q. Please summarize your conclusions and recommendations regarding DTE Electric’s**  
19 **proposed “customer-requested project offering,” renewable energy build, and**  
20 **competitive solicitation for small solar or solar plus storage projects.**

21 **A.** Based upon my expertise, experience and review of these offerings, I recommend the  
22 following:

23

1           Customer-Requested Project Offering:

- 2           • The Commission should reject the Company’s request to offer its proposed  
3           customer-requested project offering behind-the-meter.
- 4           • The Commission should approve the Company’s proposed customer-requested  
5           project offering for projects located in front of the meter, but only to the extent  
6           that the Company utilizes the best practices for competitive bidding processes  
7           as described herein.

8

9           Community Solar:

- 10          • The Commission should require the Company to conduct a pilot community  
11          solar offering as part of the proposed customer-requested project offering. This  
12          pilot offering should incorporate at least some of the nationally-recognized  
13          characteristics of a community solar program, as described further herein.

14

15          Ownership Models:

- 16          • The Commission should ensure that any approved FCM for the Company is  
17          clear, transparent, and contains granular information so potential bidders can  
18          easily calculate the full price of any proposed PPA project in comparison to a  
19          build-transfer or Company-owned project.
- 20          • The Company should consider agreeing to a 50/50 split between third-party  
21          PPAs and Company-owned resources, similar to Consumers Energy’s 50/50  
22          split agreement in Case No. U-20165.

1           Small-Scale Competitive Procurement:

- 2           • The Commission should require that the Company reduce its high costs for  
3           engineering studies and distribution studies, in order to make those costs more  
4           in line with those for other Michigan investor-owned utilities.
- 5           • The Commission should require the Company to maintain a public  
6           interconnection queue.
- 7           • The Company should be required to use nationally-recognized best practices  
8           for competitive procurement with respect to any future small-scale renewable  
9           energy offerings.
- 10          • Given that small projects have not been able to progress in DTE Electric’s  
11          territory for quite some time, all projects with complete interconnection  
12          applications in the interconnection queue by the date of the final order in this  
13          case should be allowed to compete in the small-scale project competitive  
14          solicitation.

15   **Q.    Does this conclude your testimony?**

16   **A.    Yes.**

17  
18  
19

**STATE OF MICHIGAN  
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION**

\*\*\*\*\*

In the matter, on the Commission's own motion,	)	
regarding the regulatory reviews, revisions,	)	Case No. U-20713
determination and/or approvals necessary for	)	
regulated electric providers to comply	)	
with Section 61 of 2016 PA 342.	)	

In the matter, on the Commission's own motion,	)	Case No. U-20851
regarding the regulatory reviews, revisions,	)	
determination and/or approvals necessary to	)	Consolidated
fully comply with Public Act 295 of 2008.	)	
_____	)	

**EXHIBITS OF  
DR. LAURA SHERMAN  
ON BEHALF OF  
THE MICHIGAN ENERGY INNOVATION BUSINESS COUNCIL,  
INSTITUTE FOR ENERGY INNOVATION,  
AND  
ADVANCED ENERGY ECONOMY**

# LAURA S. SHERMAN, Ph.D.

cell: 607.592.3026

lsherman@5lakesenergy.com

---

## PROFESSIONAL EXPERIENCE:

Oct. 2017-present **Michigan Energy Innovation Business Council** **VP for Policy Development**

- Develop regulatory and legislative policy positions to support advanced energy businesses
- Engage with the Michigan Public Service Commission and Michigan legislature on behalf of member companies.
- Support policy initiatives focused on wind energy, solar energy, electric vehicles, and corporate purchasing of renewable energy.
- Assist with event planning including for annual conferences, networking events, tours, and legislative networking opportunities.

Feb. 2017-present **5 Lakes Energy**, Lansing, MI **Senior Consultant**

- Research, analysis, communication, and advocacy surrounding complex energy issues.
- Focus areas include renewable energy development, community engagement, stakeholder coordination, and business sustainability.
- Support newsletter, website, and social media communications.

April 2015-Dec. 2016 **U.S. Senate**, Washington, DC **Legislative Assistant/Policy Advisor**

- Policy advisor to Senator Michael Bennet (D-CO) on agriculture, energy, environment, land, and natural resource issues.
- Legislative topics include: farming and ranching, public land conservation and management, water policy, energy development, renewable energy including energy tax incentives and transmission permitting, energy efficiency, endangered species, climate change, sportsmen's issues, environmental pollution and regulations, air quality, and biofuels.
- Drafting legislation; building coalitions; negotiating policy solutions; writing speeches; staffing the Senator at hearings of the Agriculture and Finance Committees.

2014-2015 **U.S. Senate**, Washington, DC **AAAS Congressional Science Fellow**

- Competitively selected AAAS Fellow sponsored by the American Geophysical Union. Served in the Office of Senator Michael Bennet (D-CO).
- Drafting legislation; helping to facilitate political coalitions; meeting with constituents; interacting with federal agencies; delivering policy briefings and recommendations.

2012-2014 **University of Michigan**, Ann Arbor, MI **Postdoctoral Research Fellow**

- Successfully obtained competitive grant funding for novel method to track air pollution from power plants and metal smelters into rainfall across the Great Lakes region.
- In collaboration with epidemiologists, developed and utilized new methods to assess the sources and pathways of human exposure to mercury pollution.
- Published five manuscripts; presented talks and organized scientific sessions at national and international conferences.



<b>MPSC Case No.:</b>	<u>U-20713</u>
<b>Requestor:</b>	<u>EIBCIEIAEE</u>
<b>Question No.:</b>	<u>EIBCIEIAEEDE-1.2a</u>
<b>Respondent:</b>	<u>B. T. Calka</u>
<b>Page:</b>	<u>1 of 1</u>

**Question:** On page 12 of Witness Calka’s testimony, he states that “The Company is working with certain large customers and exploring the feasibility of on-site renewable energy projects that would be fully subscribed by the customer hosting the infrastructure.”

a. Please define “on-site” in the context of this proposal.

**Answer:** With respect to customer-requested projects, “on-site” refers to a location on land that is contiguous with the customer’s premise and that features a DTE Electric meter, or another location on property owned by or leased on behalf of the customer or DTE.

**Attachments:** None.

<b>MPSC Case No.:</b>	<u>U-20713</u>
<b>Requestor:</b>	<u>EIBCIEIAEE</u>
<b>Question No.:</b>	<u>EIBCIEIAEEDE-1.7a ]</u>
<b>Respondent:</b>	<u>B. T. Calka</u>
<b>Page:</b>	<u>1 of 1</u>

**Question:** On page 23 of Witness Calka’s testimony, he indicates that “as an initial matter, any commercial or industrial customer is eligible, in that no customers are prohibited from proposing a locally-sited project.” However, on page 34 of his testimony, Witness Calka indicates that the Company is anticipating “executing customer-requested project contracts with municipalities, higher education institutions, and other public-sector entities.”

- a. Does the Company anticipate that the customer-requested project offering will be limited to “municipalities, higher education institutions and other public-sector entities”?

**Answer:** The Company has not made the determination to limit participation to municipalities, higher education institutions, and other public-sector entities.

**Attachments:** None.

<b>MPSC Case No.:</b>	<u>U-20713</u>
<b>Requestor:</b>	<u>EIBCIEIAEE</u>
<b>Question No.:</b>	<u>EIBCIEIAEEDE-1.3a</u>
<b>Respondent:</b>	<u>B. T. Calka/Legal</u>
<b>Page:</b>	<u>1 of 1</u>

**Question:** Does the Company propose that the customer-requested project offering would be limited to front-of-the-meter projects?

- a. If not, under what specific legislative or regulatory authority does the Company propose to offer behind-the-meter projects?

**Answer:** DTE Electric objects to the interrogatory because it seeks a legal conclusion. In further answer and without waiving the objection, the Company is not proposing, in this case, a particular program. Rather the Company is exploring ways to satisfy requests that its customers are making of it, and some of those requests have included behind-the-meter projects as well as in-front-of-the-meter projects. DTE Electric is not aware of any legislation that prohibits DTE Electric from building, owning and operating a generating unit whether it be behind-the-meter or in-front-of-the-meter, and in fact the Company has previously received Commission approval for behind-the-meter projects it has constructed for its customers, albeit outside the VGP space.

**Attachments:** None.

<b>MPSC Case No.:</b>	<u>U-20713</u>
<b>Requestor:</b>	<u>EIBCIEIAEE</u>
<b>Question No.:</b>	<u>EIBCIEIAEEDE-1.6b ]</u>
<b>Respondent:</b>	<u>B. T. Calka</u>
<b>Page:</b>	<u>1 of 1</u>

**Question:** On page 23 of Witness Calka’s testimony, he indicates that a customer participating in this offering would be “required to subscribe to the output of the project for the life of the asset.”

- b. Does the Company propose to develop standard term lengths for these customer- requested projects?

**Answer:** Yes, the Company will look to develop standard term lengths for these projects. The Company has not set the standard term lengths at this time, but believes the term lengths will be between 20-35 years.

**Attachments:** None.

<b>MPSC Case No.:</b>	<u>U-20713</u>
<b>Requestor:</b>	<u>EIBCIEIAEE</u>
<b>Question No.:</b>	<u>EIBCIEIAEEDE-1.4ai ]</u>
<b>Respondent:</b>	<u>B. T. Calka</u>
<b>Page:</b>	<u>1 of 1</u>

**Question:** On page 35 of Witness Calka’s testimony, he states that “Executed customer-requested contracts will be presented to the Commission for approval and filed ex-parte in a future regulatory filing in the same docket as the August 2020 Amended REP.”

- a. Does the Company propose to engage stakeholders prior to presenting these contracts to the Commission for ex-parte approval?
  - i. If so, how specifically would the Company engage stakeholders prior to presenting these contracts to the Commission for approval?

**Answer:** No, the Company does not propose to engage stakeholders prior to presenting any customer-requested contracts to the Commission for approval.

**Attachments:** None.

<b>MPSC Case No.:</b>	<u>U-20713</u>
<b>Requestor:</b>	<u>EIBCIEIAEE</u>
<b>Question No.:</b>	<u>EIBCIEIAEEDE-1.1a ]</u>
<b>Respondent:</b>	<u>B. T. Calka</u>
<b>Page:</b>	<u>1 of 1</u>

**Question:** According to the Company’s filing, “the Company will also offer a customer-requested offering to design and construct location-specific community-solar projects to help large customers achieve their respective sustainability aspirations.”

- a. How, specifically does the Company define “community-solar” in reference to this proposed customer-requested offering?

**Answer:** As described in U-18232 SDE-1.2a Discovery Response, the Company does not have a single definition of community solar; rather community solar is a classification that encompasses multiple different models that typically includes a central solar renewable energy source.

**Attachments:** None.

<b>MPSC Case No.:</b>	<u>U-20713</u>
<b>Requestor:</b>	<u>EIBCIEIAEE</u>
<b>Question No.:</b>	<u>EIBCIEIAEEDE-1.1c</u>
<b>Respondent:</b>	<u>B. T. Calka</u>
<b>Page:</b>	<u>1 of 1</u>

**Question:** According to the Company’s filing, “the Company will also offer a customer-requested offering to design and construct location-specific community-solar projects to help large customers achieve their respective sustainability aspirations.”

- c. Does the Company plan to conduct virtual metering for customers who participate in such a “community-solar” project?

**Answer:** The Company does not plan to conduct virtual metering for customers who participate.

**Attachments:** None.

**A STATE OF MICHIGAN  
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION**

\*\*\*\*\*

In the matter, on the Commission's own motion, )  
regarding the regulatory reviews, revisions, )  
determination and/or approvals necessary for )  
regulated electric providers to comply )  
with Section 61 of 2016 PA 342. )  
\_\_\_\_\_ )

Case No. U-20713

**AFFIDAVIT OF ALLEN REESE**

I, Allen Reese, first being duly sworn, do hereby depose and state that if called as a witness to testify, I have personal knowledge of and am able to testify to the following:

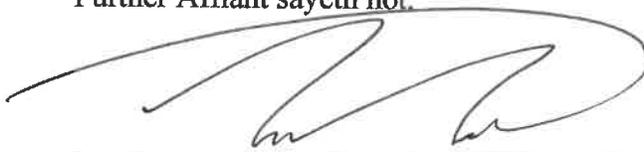
1. I am the Director of Development for Pine Gate Renewables.
2. In this role, I am charged with the development of Pine Gate Renewables development activities in Michigan, including over 40 contracted utility scale solar farms sized between 2 MW – 20 MW<sub>AC</sub>. These project span four utility service territories and contain projects with active interconnections with both Consumers Energy and DTE.
3. Pine Gate Renewables is a solar energy company with experience developing and building utility-scale solar facilities throughout the United States. Pine Gate is committed to growing Michigan’s energy infrastructure and solar workforce through a planned investment in the state of low-cost, solar energy. Pine Gate is completing construction on fourteen (14) solar energy facilities in Consumers Energy service territory totaling 28MW<sub>AC</sub>, and developing an additional twenty-five (25) projects, totaling roughly 308 MW<sub>AC</sub>, slated to be constructed through 2023.

4. Pine Gate Renewables has successfully submitted, undergone full interconnection study, executed interconnection agreements, and paid for facilities upgrades on the 14 projects mentioned above that are finishing construction by the end of January 2021. In addition to 336 MW Pine Gate is actively developing with Consumers Energy, Pine Gate is also managing and hopes to develop and construct over 60 projects with DTE totaling 416 MW<sub>AC</sub>. Uncertain and unpredictable interconnection study costs are a major barrier to development of Pine Gate's projects in DTE territory.
5. Of the 14 projects submitted to Consumers Energy and under construction, all have undergone Engineering Reviews and Distribution Studies for \$1,200 and \$5,000 respectively and have an average interconnections facility upgrade costs of \$187,000 at an average cost of \$0.09/W (AC). All projects are undergoing final construction and testing and will be operating in parallel with the grid by the end of January 2021.
6. Of the projects now managed by Pine Gate whose interconnection requests were originally submitted to DTE by Cypress Creek Renewables, LLC (Cypress Creek), one project, Glasgow Solar, LLC (Glasgow), underwent a full interconnection review and is an equivalent size to the 14 projects referenced above. Glasgow was the only project to complete both its Engineering Review and Distribution Study, due in large part to the shifting and and exorbitant study and facility upgrade costs required by DTE. Glasgow submitted its interconnection request on August 25, 2017. Following execution of Glasgow's Engineering Review Agreement on September 28, 2017, and payment of an initial \$2,500 fee on September 29, 2017 DTE informed Cypress Creek it must submit an additional \$25,960 deposit for an Engineering Review report, totaling \$28,460 in total

Engineering Review study costs, or 2371% of the cost of an equivalent study with Consumers.

7. On February 27<sup>th</sup>, 2018 DTE released its final Glasgow Engineering Review Report, but required a true-up of the \$25,960 before advancing interconnection. That payment was made on March 27, 2018. DTE's Engineering Review Report claimed the "ball park estimate" for facility upgrades would range between \$807,000 and \$1,130,000, or between 430% and 600% of the average cost (\$187,000) for similar upgrades on the Consumers system, as outlined above.
8. Following the Engineering Review Report, DTE required an additional \$20,000 deposit for a Distribution Study, which was paid on March 27, 2018. After the Distribution Study was completed on October 15, 2018, DTE required an additional payment of \$55,436.15, bringing the total Distribution Study costs to \$77,436.15, or 1548% of the cost of an equivalent Distribution study with Consumers.
9. The Distribution Study cited \$1,827,801 as Total Construction Cost, a 61% increase over what was shown in the Engineering Review Report and 870% above the average interconnection facilities cost of Pine Gate's 14 Consumers projects. In total, Pine Gate's predecessor Cypress Creek was charged \$105,896.15 to study Glasgow's ability to interconnect to DTE's grid –\$99,696.15 more than the cost of equivalent studies in Consumers service territory.
10. Compared to Pine Gate's experience with Consumers Energy, DTE's process for calculating interconnection study costs is uncertain and acts as a deterrent to development of projects that could bring affordable clean energy to DTE's customers.

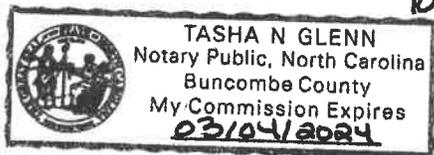
Further Affiant sayeth not.



Allen Reese  
Director of Development  
Pine Gate Renewables

WITNESSETH:

*Tasha N. Glenn*  
*Notary public Buncombe County*  
*Tasha N. Glenn*



Case No.: U-20886  
 Utility: Consumers Energy Company  
 Date: December 1, 2020  
 Exhibit No.: 7 of 11

Exhibit 7—New or Upgraded Purchased Power

(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	
Line	Electric Generator Name	Fuel or Renewable Type	Added Unit Nameplate MWs	Class Average / MISO Capacity Credit	Added ZRCs	Expected COD	Planned MPSC Regulatory Approval Date	Planned MISO Interconnection Queue Date	Planned MISO Interconnection Agreement Approval	Construction Start Date	Construction End Date
1	13 Mile Solar, LLC	Solar	2	50.00%	1	December 2020	Complete	n/a	n/a	June 2020	December 2020
2	Allegheny Solar	Solar	11	50.00%	5	October 2021	Complete	n/a	n/a	January 2021	October 2021
3	Angola Solar, LLC	Solar	2	50.00%	1	December 2020	Complete	n/a	n/a	June 2020	December 2020
4	Aurthur Solar Farm, LLC	Solar	2	50.00%	1	October 2021	Complete	n/a	n/a	January 2021	October 2021
5	Bingham Solar, LLC	Solar	20	50.00%	10	November 2020	Complete	n/a	n/a	May 2020	November 2020
6	Blue Elk Solar I	Solar	20	50.00%	10	May 2023	Complete	n/a	n/a	November 2021	May 2023
7	Blue Elk Solar III	Solar	20	50.00%	10	May 2023	Complete	n/a	n/a	November 2021	May 2023
8	Blue Elk Solar IV	Solar	20	50.00%	10	May 2023	Complete	n/a	n/a	November 2021	May 2023
9	Blue Elk Solar VII	Solar	12	50.00%	6	May 2023	Complete	n/a	n/a	November 2021	May 2023
10	Bullhead Solar, LLC	Solar	2	50.00%	1	December 2020	Complete	n/a	n/a	June 2020	December 2020
11	Burns Park Solar	Solar	10	50.00%	5	July 2023	Complete	n/a	n/a	January 2021	July 2023
12	Byrne Solar	Solar	5	50.00%	3	October 2021	Complete	n/a	n/a	January 2021	October 2021
13	Captain Solar, LLC	Solar	2	50.00%	1	December 2020	Complete	n/a	n/a	June 2020	December 2020
14	Cement City	Solar	20	50.00%	10	July 2023	Complete	n/a	n/a	January 2021	July 2023
15	Coldwater Solar, LLC	Solar	2	50.00%	1.0	December 2020	Complete	n/a	n/a	June 2020	December 2020
16	Geddes 1 Solar, LLC	Solar	2	50.00%	1	December 2020	Complete	n/a	n/a	June 2020	December 2020
17	Geddes 2 Solar, LLC	Solar	2	50.00%	1	December 2020	Complete	n/a	n/a	June 2020	December 2020
18	Golden Solar Farm, LLC	Solar	2	50.00%	1	October 2021	Complete	n/a	n/a	January 2021	October 2021
19	Good Fruit Storage LLC	Solar	0.2	50.00%	0.1	September 2019	Complete	n/a	n/a	March 2019	September 2019
20	Greenstone Solar, LLC	Solar	20	50.00%	10	May 2023	Complete	n/a	n/a	November 2021	May 2023
21	Hazel Solar, LLC	Solar	2	50.00%	1	December 2020	Complete	n/a	n/a	June 2020	December 2020
22	Hendershot Solar, LLC	Solar	2	50.00%	1	December 2020	Complete	n/a	n/a	June 2020	December 2020
23	Interchange Solar, LLC	Solar	2	50.00%	1	December 2020	Complete	n/a	n/a	June 2020	December 2020
24	Jack Francis Solar, LLC	Solar	2	50.00%	1	December 2020	Complete	n/a	n/a	June 2020	December 2020
25	Johnsfield Solar	Solar	10	50.00%	5	July 2022	Complete	n/a	n/a	January 2021	July 2022
26	Lake City Solar	Solar	2	50.00%	1	October 2021	Complete	n/a	n/a	January 2021	October 2021
27	Letts Creek	Solar	15	50.00%	8	July 2022	Complete	n/a	n/a	January 2021	July 2022
28	Lightfoot Solar	Solar	10	50.00%	5	October 2021	Complete	n/a	n/a	January 2021	October 2021
29	Lyons Road Solar	Solar	20	50.00%	10	July 2022	Complete	n/a	n/a	January 2021	July 2022
30	Macbeth Solar	Solar	20	50.00%	10	July 2022	Complete	n/a	n/a	January 2021	July 2022
31	May Shannon Solar, LLC	Solar	2	50.00%	1	December 2020	Complete	n/a	n/a	June 2020	December 2020
32	Midcontinent Solar, LLC	Solar	20	50.00%	10	May 2023	Complete	n/a	n/a	November 2021	May 2023
33	Morey Solar	Solar	2	50.00%	1	October 2021	Complete	n/a	n/a	January 2021	October 2021
34	NextSun Energy LLC	Solar	2	50.00%	1	September 2022	Complete	n/a	n/a	December 2021	September 2022
35	Pullman	Solar	20	50.00%	10	July 2022	Complete	n/a	n/a	January 2021	July 2022
36	Robert Swift Solar Farm, LLC	Solar	2	50.00%	1	October 2021	Complete	n/a	n/a	January 2021	October 2021
37	Rosco Solar	Solar	10	50.00%	5	July 2023	Complete	n/a	n/a	January 2021	June 2023
38	Shipsterns Solar	Solar	20	50.00%	10	July 2022	Complete	n/a	n/a	January 2021	July 2022
39	Stoneheart Solar, LLC	Solar	2	50.00%	1	December 2020	Complete	n/a	n/a	June 2020	December 2020
40	Surbrook Solar	Solar	10	50.00%	5	October 2021	Complete	n/a	n/a	January 2021	October 2021
41	TART Solar, LLC	Solar	8	50.00%	4	July 2022	Complete	n/a	n/a	January 2021	July 2022
42	Temperance Solar, LLC	Solar	20	50.00%	10	November 2020	Complete	n/a	n/a	May 2020	November 2020
43	Topanga Solar	Solar	20	50.00%	10	July 2022	Complete	n/a	n/a	January 2021	July 2022
44	Wilford Solar	Solar	20	50.00%	10	July 2022	Complete	n/a	n/a	January 2021	July 2022
45	Woodley Solar	Solar	1	50.00%	0	July 2022	Complete	n/a	n/a	January 2021	July 2022
46	Workman Solar	Solar	2	50.00%	1	December 2020	Complete	n/a	n/a	June 2020	December 2020
47	150 MW 2022 Solar PPA	Solar	150	50.00%	75	May 2022	July 2020	July 2020	January 2021	March 2021	March 2022
48	150 MW 2023 Solar PPA	Solar	150	50.00%	75	May 2023	July 2021	July 2021	January 2022	March 2022	March 2023
49	250 MW 2024 Solar PPA	Solar	250	50.00%	125	May 2024	July 2022	July 2022	January 2023	March 2023	March 2024

**STATE OF MICHIGAN  
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION**

\*\*\*\*\*

In the matter, on the Commission's own motion,	)	
regarding the regulatory reviews, revisions,	)	Case No. U-20713
determination and/or approvals necessary for	)	
regulated electric providers to comply	)	
with Section 61 of 2016 PA 342.	)	

In the matter, on the Commission's own motion,	)	Case No. U-20851
regarding the regulatory reviews, revisions,	)	
determination and/or approvals necessary to	)	Consolidated
fully comply with Public Act 295 of 2008.	)	
_____	)	

**DIRECT TESTIMONY OF  
CAITLIN MARQUIS  
ON BEHALF OF  
THE MICHIGAN ENERGY INNOVATION BUSINESS COUNCIL,  
INSTITUTE FOR ENERGY INNOVATION,  
AND  
ADVANCED ENERGY ECONOMY**

1 **Q. State your name, business name and address.**

2 A. My name is Caitlin Marquis and I am Director at Advanced Energy Economy (“AEE”),  
3 located at 1010 Vermont Ave. NW, Suite 1050, Washington, D.C. 20005.

4  
5 **Q. On whose behalf are you appearing in this case?**

6 A. I am appearing on behalf of Michigan Energy Innovation Business Council (“Michigan  
7 EIBC”), Institute for Energy Innovation (“IEI”), and AEE, collectively referred to as  
8 “Michigan EIBC/IEI/AEE.”

9  
10 **Q. Please summarize your education and professional backgrounds.**

11 A. I have worked for AEE for six years. I facilitate AEE's "Advanced Energy Buyers Group,"  
12 a business-led coalition of large energy users who have come together to engage on energy  
13 policy issues that will help them achieve their ambitious clean energy targets. In this  
14 capacity, I have worked extensively with both corporate purchasers and renewable energy  
15 developers on the topic of renewable energy procurement solutions. Prior to my  
16 employment with AEE, I worked at Altenex LLC (now part of Edison Energy), an energy  
17 management network that assists leading companies with their renewable energy  
18 procurement decisions. I hold a B.A. from Harvard University and a Master of Science in  
19 Environmental Change and Management from the University of Oxford.

20  
21 **Q. Have you testified as an expert witness in prior proceedings?**

22 A. Yes, I have testified before the State Corporation Commission in Virginia in Case No.  
23 PUR-2017-00060 and Case No. PUR-2019-00094, and before the Michigan Public Service

1 Commission (“MPSC” or the “Commission”) in Case No. U-18351, Case No. U-18352,  
2 and Case No. U-20649.

3

4 **Q. Are you sponsoring any exhibits?**

5 A. Yes, I am sponsoring the following exhibits:

6 1. Exhibit EIB-11 (CM-1): Résumé of Caitlin Marquis.

7 2. Exhibit EIB-12 (CM-2): DTE Proposed Standard Contract Rider No. 19  
8 MIGreenPower – Large Customer Voluntary Green Pricing Program, Exhibit of DTE  
9 Witness Brian T. Calka, Case No. U-20713, August 31, 2020.

10 3. Exhibit EIB-13 (CM-3): Discovery response to Michigan EIBC, IEI and AEE,  
11 EIBCIEIAEEDE-2.2.

12

13 **Q. What is the purpose of your Direct Testimony?**

14 A. The purpose of my Direct Testimony is to evaluate and provide recommendations  
15 regarding DTE Electric Company’s (“DTE,” “DTE Electric,” or the “Company”) updated  
16 Rider 19.

17

18 **Q. How is your testimony organized?**

19 A. My testimony is organized as follows:

20 I. Demand for Utility Renewable Energy Programs Across the Country.

21 II. Evaluation of the Revised Rider 19 Program.

22 i. Support for Revisions Made to Rider 19.

23 ii. Areas for Further Improvement.

1 III. Recommendations and Conclusion.

2  
3 **Demand for Utility Renewable Energy Programs Across the Country**

4 **Q. Rider 19 is intended for large commercial and industrial customers. Are these**  
5 **customers interested in renewable energy?**

6 A. Yes. Demand for renewable energy among large customers—like those eligible to enroll  
7 in Rider 19—has been strong and growing over the past several years. Since 2016, large  
8 customers have signed nearly 25 GW of renewable energy contracts, with a record of more  
9 than 9 GW in 2019 alone; as of October 2020, nearly 5 GW of renewable energy contracts  
10 have been signed by large commercial and industrial customers.<sup>1</sup>

11  
12 **Q. Do these renewable energy purchases rely on utility involvement?**

13 A. Most do not. The vast majority of renewable energy power purchase agreements (“PPAs”)  
14 occur through direct bilateral contracting between large customers and renewable energy  
15 developers, often via financial swaps available in organized wholesale markets. According  
16 to Bloomberg New Energy Finance, such transactions accounted for 80% of renewable  
17 energy deals signed in the U.S. in 2019.<sup>2</sup>

18  
19  

---

<sup>1</sup> <https://rebuyers.org/deal-tracker/>

<sup>2</sup> Bloomberg New Energy Finance, “Corporate Clean Energy Buying Leapt 44% in 2019, Sets New Record” (Jan. 28, 2020), <https://about.bnef.com/blog/corporate-clean-energy-buying-leapt-44-in-2019-sets-new-record/>.

1 **Q. If most purchases occur without utilities, are utility programs needed?**

2 A. Yes, utility programs like the DTE’s Rider 19 have an important role to play in enabling  
3 companies to meet their renewable energy targets, particularly in vertically integrated  
4 markets. Driven by a range of motivations—including the need to reduce financial risk and  
5 the desire to maximize local environmental and economic benefits—many companies are  
6 specifically seeking local renewable energy projects that are directly tied to their electricity  
7 consumption through their utility bill. For customers of vertically integrated utilities,  
8 participation in a utility program is generally the *only* option for a customer to pursue  
9 renewable energy at levels above and beyond default service—making it even more  
10 important that utility programs are actually suited to customers’ needs and preferences.

11

12 **Q. How are other utilities across the country responding to this demand?**

13 A. Utilities are stepping up to develop renewable energy offerings that will allow large  
14 commercial and industrial (“C&I”) customers to meet their renewable energy targets. Since  
15 the first such utility renewable energy programs were introduced in 2013, utilities have  
16 introduced more than 36 renewable energy programs pending or available across 19 states.  
17 To date, roughly 3.7 GW of C&I renewable energy procurement has relied on these utility  
18 “green tariffs.”<sup>3</sup>

19

20 **Q. Are these programs all the same or similar?**

21 A. Successful programs follow a shared set of best practices, but vary in design according to  
22 customer needs and local circumstances. Based on our direct experience and that of our

---

<sup>3</sup> [https://rebuyers.org/wp-content/uploads/2020/08/REBA\\_Utility\\_Green\\_Tariff\\_Update\\_July\\_2020.pdf](https://rebuyers.org/wp-content/uploads/2020/08/REBA_Utility_Green_Tariff_Update_July_2020.pdf).

1 members in working with utilities across the country, AEE has developed a set of best  
2 practices for utility renewable energy programs:

- 3 • Program pricing that reflects actual market pricing and program costs;
- 4 • Competitive project solicitation to ensure lowest-cost, best-fit resources to  
5 meet customer needs;
- 6 • Development of new renewable energy, beyond business-as-usual;
- 7 • Allowing a range of customers to participate;
- 8 • Providing flexible or varied offerings to meet the needs of a range of  
9 different customers; and
- 10 • No adverse impact on non-participating customers.<sup>4</sup>

11 These principles and the experience behind them guide my assessment of the needed  
12 revisions to Rider 19.

13  
14 **Q. What is the benefit to states and utilities of meeting corporate renewable energy  
15 demand by developing workable utility offerings?**

16 A. States that allow opportunities for corporate renewable energy procurement are able to  
17 meet the needs of businesses—helping to attract and retain growing companies—while  
18 also making faster progress toward a decarbonized grid at no cost to other ratepayers.  
19 Strong corporate renewable energy procurement activity also accelerates the growth of an  
20 in-state renewable energy industry, bringing jobs, tax revenue, and experience with  
21 renewable energy deployment and integration that will benefit all ratepayers and the state

---

<sup>4</sup> AEE Institute, *Essential Elements of Next-Generation Renewable Energy Tariffs* (2017), available at <https://info.aee.net/making-corporate-renewable-energy-purchasing-work-for-all-utility-customers>.

1 overall. Unlocking new opportunities for corporate procurement is therefore consistent  
2 with Governor Whitmer’s comprehensive plan to protect Michiganders’ public health and  
3 the environment and help develop new clean energy jobs by putting Michigan on a path  
4 towards becoming fully carbon-neutral by 2050,<sup>5</sup>  
5

6 **Evaluation of the Revised Rider 19 Program**

7 **Q. What is your overall evaluation of Rider 19?**

8 A. Overall, I find Rider 19 to be a reasonable utility renewable energy offering for large  
9 customers. The program relies on a fair and cost-based design, charging customers  
10 according to the levelized cost of energy (“LCOE”) of renewable resources serving Rider  
11 19, and crediting them according to the energy and capacity value those resources deliver  
12 to the grid. Rider 19 has clearly already met the needs of some large Michigan customers,  
13 and DTE’s proposal to expand the program and to transition Rider 19 from a pilot to a  
14 permanent offering will allow additional customers to participate.  
15

16 **Q. Does Rider 19 fall short of meeting customers’ needs and preferences in any ways?**

17 A. One key challenge for prospective Rider 19 customers is committing to a long-term  
18 program that carries a net premium. A cost premium is a barrier to participation for many  
19 customers, and the increasing cost-competitiveness of wind and solar energy makes net  
20 premium programs especially difficult for customers to accept. If new resources added to

---

<sup>5</sup> *MI Healthy Climate Plan*, Executive Directive 2020-10 and Executive Order 2020-182, September 23, 2020. [https://www.michigan.gov/whitmer/0,9309,7-387-90499\\_90640-540289--,00.html](https://www.michigan.gov/whitmer/0,9309,7-387-90499_90640-540289--,00.html)

1 the program are procured competitively and at a fair price, the program premium should  
2 decline with technology costs, enabling more customers to participate.

3  
4 **Q. What changes to Rider 19 is DTE seeking in this filing?**

5 A. Based on my understanding of DTE’s filing, the Company is proposing six key changes to  
6 Rider 19. Specifically, DTE proposes to:

- 7 1. Add a “Flexible Pre-Payment Option”;<sup>6</sup>
- 8 2. Add a 15-year term option (in addition to the previously offered terms of five,  
9 10, and 20 years);<sup>7</sup>
- 10 3. Transition the program from a pilot to a permanent program;<sup>8</sup>
- 11 4. Add new resources to accommodate forecasted demand growth;<sup>9</sup>
- 12 5. Switch to a “net premium” assessment rather than using the levelized cost of  
13 new energy (“LCOE”) “as the evaluation basis for cost-averaging new  
14 renewable energy projects into the program”;<sup>10</sup> and
- 15 6. Explicitly define the early termination fees.<sup>11</sup>

16  

---

<sup>6</sup> Direct Testimony of Brian T. Calka, Case No. U-20713, dated August 31, 2020 (“B.T. Calka Testimony”) at 12.

<sup>7</sup> DTE Proposed Standard Contract Rider No. 19 MIGreenPower – Large Customer Voluntary Green Pricing Program, Exhibit of DTE Witness Brian T. Calka, Case No. U-20713, August 31, 2020 (“Rider No. 19”) (Section C, Term and Form of Agreement).

<sup>8</sup> B.T. Calka Testimony at 10.

<sup>9</sup> B.T. Calka Testimony at 28-34.

<sup>10</sup> B.T. Calka Testimony at 12.

<sup>11</sup> Rider No. 19 (Section D, Early Termination of Agreement).

1 **Q. Do you support these proposed revisions to the Rider 19?**

2 A. I support most of the proposed revisions to Rider 19 and encourage caution with respect to  
3 some of the other proposed revisions. In particular, I encourage continued focus on  
4 competitive procurement allowing for full and fair participation by third-party developers  
5 as DTE adds new resources to meet customer demand under Rider 19 and all the Voluntary  
6 Green Pricing (“VGP”) programs, urge the Commission to scrutinize the proposed “net  
7 premium” evaluation approach, and recommend a minor clarification with respect to the  
8 early termination fee. In addition to the proposed revisions, I also suggest adding another  
9 pricing option to allow participating customers to better manage their costs and risk.

10

11 **i. Support for Revisions Made to Rider 19**

12 **Q. Which of the proposed revisions to Rider 19 do you support without reservation?**

13 A. I fully support the following proposed revisions to Rider 19:

- 14 1. Addition of a pre-payment option;
- 15 2. Addition of a 15-year term option (in addition to the previously offered terms  
16 of five, 10, and 20 years); and
- 17 3. Transitioning the program from a pilot to a permanent program.

18

19 **Q. Please explain why you view these changes as improvements to Rider 19.**

20 A. The three changes listed above add optionality and certainty for participating and potential  
21 customers. First, the pre-payment option offers customers additional flexibility, without  
22 impacting the program in any way or harming those customers that do not wish to enroll  
23 in the pre-payment option. DTE Witness Calka states that this option was specifically

1 requested by customers who have “expressed a need for the flexible pre-payment option in  
2 response to unique budgetary limitations, which may otherwise prohibit them from  
3 participating in the MIGreenPower program.”<sup>12</sup> Because the pre-payment option would  
4 remove a barrier to participation without impacting the overall program or other customers,  
5 it is an improvement to the program and should be accepted. Second, the addition of a 15-  
6 year term option gives customers more options to subscribe to the program without  
7 eliminating any of the term lengths available today (five, 10, and 20 years).<sup>13</sup> In particular,  
8 I note that many PPAs signed by large companies are in the 10-15 year range, so the  
9 addition of a 15-year term aligns with the procurement practices and strategies that many  
10 companies have developed. Finally, making Rider 19 a permanent program will offer  
11 interested customers additional assurances that the program will continue to be available.  
12 This is particularly relevant to companies considering expanding or locating in Michigan,  
13 as these prospective customers may not be seeking to start participating in the program  
14 until farther into the future. Importantly, making Rider 19 a permanent program does not  
15 mean that DTE and the Commission cannot continue to work on changes and  
16 improvements to the program.

17  
18 **ii. Areas for Further Improvement**

19 **Q. Please list the remaining areas for improvement.**

20 A. As I noted above, the primary drawback of the Rider 19 program is the cost premium faced  
21 by participating customers. The most impactful and important step to ensure the success of

---

<sup>12</sup> B.T. Calka Testimony at 22.

<sup>13</sup> Rider No. 19 (Section C, Term and Form of Agreement ).

1 the Rider 19 program is to improve the cost-competitiveness of the renewable resources  
2 serving Rider 19 customers. While I strongly support DTE’s request to add additional  
3 resources to meet growing demand under Rider 19, I recommend that the Company take  
4 steps to ensure that new resources added are cost-competitive and best suited to meet  
5 customer needs. This can best be accomplished by adopting the competitive procurement  
6 best practices discussed in EIBC/IEI/AEE witness Dr. Laura Sherman’s Direct Testimony  
7 in this proceeding.<sup>14</sup> Second, I raise some concerns with the Company’s proposal to switch  
8 to a net premium approach to evaluate new projects to be cost-averaged into the program,  
9 which I believe deserves additional explanation and scrutiny. Third, I recommend a minor  
10 revision with respect to the redline tariff changes that seek to clarify the early termination  
11 fee. Finally, I recommend adding additional pricing options to meet the needs of a broader  
12 range of potential customers.

13  
14 **Q. Do you support DTE’s proposal to add new resources to meet demand under Rider**  
15 **19?**

16 **A.** Yes, I agree with DTE’s request to add new resources to meet demand for Rider 19. The  
17 program has proven popular to date, and DTE has conducted detailed analysis of additional  
18 customer interest in the program.<sup>15</sup> To avoid lags in availability, which can frustrate  
19 customers’ ability to meet their ambitious clean energy targets in a timely manner and

---

<sup>14</sup> Direct Testimony of Dr. Laura Sherman, Case No. U-20713; U-20851, dated December 23, 2020, pp. 19-20 (“Sherman Direct”).

<sup>15</sup> B.T. Calka Testimony at 27-30.

1           therefore diminish interest in the program, it is important to begin the process of identifying  
2           new resources well in advance of the need for such resources.

3

4   **Q.    How do you suggest that DTE ensure the cost-competitiveness of the renewable**  
5   **resources serving Rider 19 customers?**

6   A.    To ensure the cost-competitiveness of the mix of resources serving Rider 19 subscribers, I  
7    recommend relying on a robust and open competitive procurement process allowing for  
8    full and fair participation by third-party developers. Such a process will ensure that the  
9    selected resources are the best available to meet customer needs on the basis of price and  
10   performance.

11

12   **Q.    What recommendations do you have to ensure that new resources added to the Rider**  
13   **19 program are competitively priced?**

14   A.    As noted previously, I support the recommendations put forward in the direct testimony of  
15    Dr. Laura Sherman in this case. In particular, Dr. Sherman highlights the importance of  
16    enabling third-party PPA resources to compete equally with Company-owned resources to  
17    meet customer demand under all the VGP programs, which include Rider 19. Dr. Sherman  
18    highlights the “50/50 split” between PPAs and company ownership as one potential  
19    solution to ensure that at least some of the resources added to the VGP programs are  
20    competitively sourced.<sup>16</sup>

---

<sup>16</sup> Sherman Direct, pp. 26-28.

1 **Q. You mentioned that you have potential concerns regarding the Company’s proposal**  
2 **to switch to a net premium as the evaluation basis for cost-averaging new projects**  
3 **into the program. Please explain DTE’s proposal.**

4 A. DTE has provided very little information about this aspect of its filing, but as I understand  
5 it, the Company plans to use a five-year forecast of net premium (LCOE minus the expected  
6 energy and capacity credits) as a primary criterion for selecting projects to be added to  
7 Rider 19. After selecting new projects, the Company plans to compare the forecasted net  
8 premium of the new resources to that of the existing Rider 19 resources. If new projects  
9 have a lower forecasted net premium than existing projects, they would be cost-averaged  
10 into the program and existing subscribers would have their subscription charge and  
11 renewable energy credits adjusted accordingly (based on the LCOE and the actual monthly  
12 renewable energy credits of the new projects, respectively). If the new projects have a  
13 higher forecasted net premium than existing projects, existing customers would continue  
14 to be served by existing resources and new customers would subscribe to the new higher-  
15 net premium resources. It is my understanding that DTE’s “forecasted net premium” would  
16 be used for evaluation purposes and would not appear anywhere on the customers’ bill;  
17 customer bills would reflect the *actual net* premium, or the difference between the  
18 subscription charge (based on LCOE only) and the energy and capacity credits (based on  
19 actual resource performance and market prices, which will vary monthly).

20

21 **Q. What are your concerns with this approach, as you understand it?**

22 A. I am concerned that DTE has not fully explained how it would forecast the five-year net  
23 premium, nor is it clear that existing or prospective customers would be given insight into

1 the process or results of this evaluation. Although the Company has attempted to explain  
2 the manner in which it proposes to cost-average new projects into the subscription charge,  
3 many questions on this new forecasting methodology still remain.<sup>17</sup> The accuracy of the  
4 five-year net premium forecast and its applicability over the life of the project is critical to  
5 ensure that new customers do not end up paying more relative to the current program.  
6 Specifically, the net premium approach means that customers may end up paying (via the  
7 subscription charge) for a renewable energy project with a higher LCOE, on the basis of  
8 higher expected energy and capacity credits. If these higher credits do not materialize,  
9 customers would end up with a higher net premium compared to the current approach.  
10 Particularly for existing customers, who signed up with the understanding that their  
11 subscription charge could decrease but would not increase, this change may cause  
12 concerns, because it could result in a higher subscription charge on the basis of an expected  
13 but uncertain increase in Renewable Energy Resource Credits.

14  
15 If DTE intends to incorporate the forecasted net premium into customers' bills in any way,  
16 rather than simply using this forecast to evaluate new projects and determine whether new  
17 projects would be blended into the resource mix serving existing customers, this would  
18 raise additional concerns. Specifically, incorporating the forecasted net premium into  
19 customers' bills would expose customers to both the forecasted *and* actual energy and  
20 capacity credits.

---

<sup>17</sup> See Exhibit EIB-13 (CM-3), EIBCIEIAEED 2.2.

1 **Q. Do you recommend returning to the current LCOE approach?**

2 A. Not necessarily. The net premium approach could result in selection of projects that will  
3 deliver greater overall value to customers. However, I strongly urge the Commission to  
4 scrutinize DTE’s criteria for evaluating the five-year net premium of renewable energy  
5 projects and assess whether a five-year net premium forecast is appropriate under a  
6 program that allows customers to sign up for as long as 20 years. If the Commission finds  
7 any cause for concern, it should reject the net premium approach.

8

9 **Q. Do you have any other recommendations with respect to the net premium evaluation?**

10 A. Yes. I also recommend that the Commission require DTE to provide prospective customers  
11 with information about the net premium evaluation process so they enter the program with  
12 a full understanding of how additional resources could impact their subscription charge  
13 and monthly bill credits moving forward. Likewise, I recommend that the Commission  
14 require DTE to provide existing customers with information about the process and outcome  
15 of the net evaluation process as new projects are brought into the program and either cost-  
16 averaged in or not cost-averaged in.

17

18 **Q. What minor revision do you recommend with respect to the early termination fee?**

19 A. While I support DTE’s proposal to increase transparency with respect to termination fees  
20 customers would face if they were to exit the Rider 19 program early, I recommend  
21 clarifying that this fee would still be capped at the remaining value of the customer  
22 agreement. While this limitation is perhaps implied by the phrase “equivalent of *up to* one  
23 year of Rider subscription” (emphasis added), it would be made more clear by retention of

1 the clause “not to exceed the remaining value of the customer agreement.”<sup>18</sup> This minor  
2 change would only affect customers seeking to unenroll when they have less than one year  
3 remaining in their Rider 19 subscription.  
4

5 **Q. You also mentioned that you would recommend providing additional flexibility with**  
6 **respect to pricing. What additional option do you recommend adding?**

7 A. I recommend adding an option for customers to switch to a market-based rate for their base  
8 electricity schedule, to complement the structure of the Rider 19 renewable energy credits.  
9 This is the approach taken by Consumers Energy’s Large Customer Renewable Energy  
10 Pilot (LC-REP) program, which includes a “Market Index Provision” allowing customers  
11 subscribing for at least 85% of their load to switch to a market-based rate.<sup>19</sup> The Market  
12 Index Provision allows customers to align their underlying electricity costs to the credits  
13 they get back from their renewable energy subscription. While the Market Index Provision  
14 and the LC-REP energy credit will not align perfectly, this arrangement reduces the market  
15 risk associated with the variable, market-based LC-REP credit. The structure of the  
16 subscription charge and renewable energy credits for the Rider 19 program is very similar  
17 to that of the LC-REP program, and addition of a market-based rate option would give  
18 DTE customers an attractive option to better manage the risk of their participation in Rider  
19 19.

---

<sup>18</sup> Rider No. 19, at Section D (Early Termination of Agreement).

<sup>19</sup> Consumers Energy Company, Voluntary Large Customer Renewable Energy Pilot (“LC-REP”) Program, C10.6, First Revised Sheet No. C-55, Oct. 28, 2020.  
[https://www.michigan.gov/documents/mpsc/Consumers\\_14\\_current\\_675992\\_7.pdf](https://www.michigan.gov/documents/mpsc/Consumers_14_current_675992_7.pdf)

1 **Q. Please summarize your recommendations regarding Rider 19.**

2 A. I recommend that the Commission approve DTE’s proposed revisions to Rider 19, with the  
3 following conditions:

- 4 1. When adding new resources to serve customer demand under Rider 19, rely on  
5 competitive solicitations that give fair opportunity to third-party developed  
6 resources;
- 7 2. Conduct an evaluation of DTE’s approach to forecasting the five-year energy  
8 and capacity credit as part of the net premium approach to evaluating and cost-  
9 averaging new Rider 19 projects, and require that DTE provide information  
10 regarding the process and outcomes of the net premium evaluation to current  
11 and prospective Rider 19 customers;
- 12 3. Reverse the strikeout of the phrase “not to exceed the remaining value of the  
13 customer agreement” from the Rider 19 early termination provisions; and
- 14 4. Add an option for customers to switch to a market-based rate for their base  
15 electricity schedule, to complement the structure of the Rider 19 renewable  
16 energy credits (analogous to the Market Index Provision under Consumers  
17 Energy’s LC-REP program).

18  
19 **Q. Does this conclude your testimony?**

20 A. Yes.

21

22

23

24 17344301.2

**STATE OF MICHIGAN  
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION**

\*\*\*\*\*

In the matter, on the Commission's own motion,	)	
regarding the regulatory reviews, revisions,	)	Case No. U-20713
determination and/or approvals necessary for	)	
regulated electric providers to comply	)	
with Section 61 of 2016 PA 342.	)	

In the matter, on the Commission's own motion,	)	Case No. U-20851
regarding the regulatory reviews, revisions,	)	
determination and/or approvals necessary to	)	Consolidated
fully comply with Public Act 295 of 2008.	)	
_____	)	

**EXHIBITS OF  
CAITLIN MARQUIS  
ON BEHALF OF  
THE MICHIGAN ENERGY INNOVATION BUSINESS COUNCIL,  
INSTITUTE FOR ENERGY INNOVATION,  
AND  
ADVANCED ENERGY ECONOMY**

# CAITLIN MARQUIS

781.261.6047  
cmarquis@aee.net

133 Federal Street, 7<sup>th</sup> Floor  
Boston, MA 02110

---

## PROFESSIONAL EXPERIENCE

---

### Advanced Energy Economy

*Director*

Boston, Massachusetts  
*October 2014 – Present*

- Plan and execute policy engagement for *Advanced Energy Buyers Group*, including:
  - Developing policy positions
  - Drafting regulatory comments (available at [www.advancedenergybuyersgroup.org/policy-engagement](http://www.advancedenergybuyersgroup.org/policy-engagement))
  - Advancing legislative positions
  - Developing strategic plans, planning and facilitating meetings with members and external stakeholders
  - Coordinating and collaborating with allied groups
  - Managing consultant contracts, maintaining website, and other administrative tasks
  - Managing member relations
- Oversaw 2017 launch of *Advanced Energy Buyers Group*, an initiative within AEE supporting the policy interests of large energy consumers; active membership includes Microsoft, Amazon, Google, and Facebook
- Lead AEE engagement in ISO New England and support AEE's broader Expanding Wholesale Markets work, including stakeholder engagement, policy positioning, and comment filings at the Federal Energy Regulatory Commission
- Support AEE policy work by authoring and/or contributing to regulatory comments, reports, blog posts, webinars, panels, and member communications. Recent reports, articles, and filings include:
  - [Renewable Energy Offerings that Work for Companies](#) (April 2019 report)
  - [How Corporate Demand can Drive Renewable Energy and Economic Growth, State by State](#) (March 2020 webinar)
  - [Understanding the MOPR: What an Obscure FERC Rule Could Mean for Renewable Energy Buyers](#) (Smart Energy Decisions guest column, March 13, 2020),
  - [Here's a Glimpse of What Distributed Energy Resources Could Bring to Wholesale Markets – If They Are Given a Chance](#) (September 2019 blog post)
  - Virginia Case No. PUR-2019-00094, [Direct Testimony](#) (October 2019 filing)
  - Colorado Proceeding No. 19M-0495E, [Advanced Energy Buyers Group Comments](#) (November 2019 filing)

### Altenex

*Research Analyst*

Boston, Massachusetts  
*September 2011 – July 2012*

- Researched environmental goals of multinational corporations, renewable energy developments, industry trends, and government incentives and regulations; compiled and presented results
- Designed and built database of renewable energy projects, developers, and purchasers; used database to inform research and client-facing proposals
- Helped to determine and sharpen the focus of a rapidly growing renewable energy startup

---

## EDUCATION

---

**OXFORD UNIVERSITY**, *MSc. with Distinction, November 2013*

*Oxford, United Kingdom*

MSc. Environmental Change & Management, focus on sustainable building design & occupant behavior. Coursework in science and policy of climate change, resource use, ecosystems, and sustainable development.

**HARVARD UNIVERSITY**, *summa cum laude, May 2010*

*Cambridge, Massachusetts*

A.B. History of Art & Architecture, focus in Architectural History & Theory; language citation in Spanish. John Temple Hoopes prize for outstanding undergraduate thesis. Phi Beta Kappa. Cumulative GPA: 3.945

M.P.S.C. No. 1 – Electric  
DTE Electric Company  
(Update of Rider 19)

Revised Sheet No. D-117.00  
Cancels Sheet No. D-117.00

**STANDARD CONTRACT RIDER NO. 19 MIGREENPOWER – LARGE CUSTOMER VOLUNTARY GREEN PRICING PROGRAM (LCVGP) PILOT**

The MIGreenPower Large Customer Program (Rider) LCVGP provides full service customers the opportunity to meet their corporate sustainability goals and to encourage additional development of Michigan-sourced renewable energy resources, ~~by offering the ability to match up to 100% of their total annual energy usage.~~

The Company will supply the renewable energy from both Company renewable assets approved in its Renewable Energy Plan (REP) by the Commission's Order in Case No. U-18232 issued July 18, 2019 ("Original Assets") and additional designated renewable energy projects ("Additional Projects") deemed necessary to meet forecasted customer demand for this Rider (collectively "Company Renewable Resources"). ~~The MIGreenPower Large Customer Program~~ facilities in the state of Michigan. LCVGP will be sourced from the Original Assets subscribed in phases until they are one offering is fully subscribed and there is forecasted demand for additional projects demand for additional phases. Renewable energy supplied under this option will be limited to 85% of the total forecasted annual energy output of the contracts approved under the LCVGP. Renewable energy subscribed through this Standard Contract Rider No. 19 shall not be used by the Company for compliance with the state's statutory renewable energy portfolio requirements. ~~Enrollment will, with conditions and subject to availability, remain open following approval by the Michigan Public Service Commission, and additional designated renewable energy facilities will be added, as subscription levels increase.~~

Customers that receive at least 50% of their average monthly energy from Company Renewable Resources will be exempt from paying the Company's renewable energy surcharge. Customers that receive less than 50% of their average monthly energy will be responsible for the full applicable renewable energy surcharge.

**Company-Provided Renewable Resource**

**A. Customer Eligibility**

Participation is limited to full service customers with an aggregated annual Maximum Demand of at least 1,000 kW. A single customer may aggregate across multiple sites. ~~Participants shall be enrolled on a first-in, first-served basis~~ and matching energy shall not exceed the limits of the amount of renewable energy available. Customers ~~After the initial year of the subscription, customers may increase their subscription level annually for the remainder of their agreement, based on the availability of renewable energy~~ in the Company's Renewable Resources, as determined by the Company.

The Company shall transfer to the customer, via the Michigan Renewable Energy Certification System (MIRECS), the Renewable Energy Credits (RECs) or retire the RECs on behalf of the subscribing customers, using the MIRECS accounting system. If the customer elects for the Company to retire the RECs on their behalf, the Company will provide the customer with a sworn attestation and reporting for all RECs that were retired. The REC retirement reporting and attestation will occur annually during the month of April for the RECs that were generated throughout the prior calendar year. If a customer's subscribed energy is in excess of the monthly output from the Company's Renewable Resources ~~designated renewable facilities~~, then the Company will record the shortfall and attempt to satisfy the shortfall with renewable generation in excess of customer subscriptions in future months. The Company will conduct annual reviews to reconcile the energy generated by the Company Renewable Resources ~~designated renewable facilities~~ against the amount of renewable energy subscribed by participants. If the annual review demonstrates that the Company Renewable Resources ~~renewable facilities~~ have a shortfall in output versus total subscription, then the Company will provide, at the customer's option, RECs in an amount that satisfies the customer's share of the shortfall. The

Issued \_\_\_\_\_  
C. Serna  
Vice President  
Regulatory Affairs  
Detroit, Michigan

Effective for service rendered on  
and after \_\_\_\_\_

Issued under authority of the  
Michigan Public Service Commission  
dated \_\_\_\_\_  
in Case No. U-20713

M.P.S.C. No. 1 – Electric  
 DTE Electric Company  
 (Update of Rider 19)

\_\_\_\_\_ Revised Sheet No. D-117.00  
 Cancels \_\_\_\_\_ Sheet No. D-117.00

Company will charge customers the cost of acquiring the RECs on their behalf. **The Company will apply the applicable credits to the customer's bill following the annual review.**

The customer subscription level is expressed as a percentage of their monthly energy use. The Company will provide at least 15% renewable energy under current PA 342 legislation in 2021. **Customers** ~~Therefore, minimum participation match is 20% of monthly energy use for each enrolled customer account and customer may select~~ **under this Rider,** participation levels in 5% increments, up to ~~85~~100% of their total energy use, **with the maximum resulting in 100% renewable energy supply.** The customer's subscription charge is a per kWh monthly charge applied to the portion of energy of the customer's account designated to participate in **the MIGreenPower Large Customer Program** ~~the LCVGP~~ and is designed to fully recover the costs of participation.

(Continued on Sheet No. D-118.00)

Issued \_\_\_\_\_  
 C. Serna  
 Vice President  
 Regulatory Affairs  
 Detroit, Michigan

Effective for service rendered on  
 and after \_\_\_\_\_

Issued under authority of the  
 Michigan Public Service Commission  
 dated \_\_\_\_\_  
 in Case No. U-20713

M.P.S.C. No. 1 – Electric  
DTE Electric Company  
(Update of Rider 19)

Revised Sheet No. D-118.00  
Cancels Sheet No. D-118.00

(Continued from Sheet No. D-117.00)

**STANDARD CONTRACT RIDER NO. 19 (Contd.) MIGREENPOWER – LARGE CUSTOMER VOLUNTARY GREEN PRICING PROGRAM (LCVGP) PILOT**

**B. Monthly Rate**

**Billing and Credits**

- a. The customer taking service under this Rider shall be subject to the Power Supply and Delivery charges pursuant to their current Rate Schedule, including all applicable surcharges and credits contained in Sections C8.5 and C9.8, for all electric service provided by the Company, including renewable energy purchased under this Rider. Services under this Rider require the rate schedule attached to the Rider to The customer will be billed on a calendar month their current billing cycle which begins on the first calendar day of each month and ends on the last calendar day of each month.
- b. Subscription Charge: The subscription charge will be a flat fee, based on the levelized cost of service of the Original Assets designated renewable energy facilities approved within this Rider the Program. If Additional Projects are required to meet customer demand, they new assets in the program are contracted at a lower rate, the subscription fee will be cost-averaged based on generation into the Original Assets based on a five-year forecasted for all subscribers, resulting in a net premium (levelized cost less forecasted energy and capacity credits) at the time of the Additional Project(s) contract approval. decrease in the subscription fee for all customers. If Additional Projects new assets in the program are contracted at a higher net premium rate or at the request of a specific customer, then existing subscribers will not be billed for those Additional Projects and will customers currently paying a lower amount would retain their existing subscription fee and capacity and energy credit that amount for the amount they are currently subscribed for.
- c. Flexible Pre-Payment Option: In order to accommodate unique customer needs, customers under this Rider may elect a flexible upfront subscription payment instead of paying the per kWh subscription charge on a monthly basis. The Company will require, at minimum, a payment that is estimated to cover the customer's expected subscription expenses that are tied to the subscription charge of the Company's Renewable Resources in any given month. Any such upfront subscription charge is not a customer deposit described in the billing practices applicable to non-residential electric customers (R 460.1607). When the upfront subscription payment no longer covers the customer's monthly subscription expenses, either the customer can make another upfront payment or the customer will be billed on a monthly basis going forward.
- d. Renewable Energy Resource Credits:

Energy Credit

The customer will receive a monthly energy credit based on the monthly weighted monthly weighted average Real Time Locational Marginal Price (RT-LMP) for the Generation Node(s) of the Company Renewable Resources designated renewable facilities applied to the customer's customers monthly energy use under the Rider program. Credits will be reconciled annually based on the Mid-Continent Independent System Operator (against the

Issued \_\_\_\_\_  
C. Serna  
Vice President  
Regulatory Affairs  
Detroit, Michigan

Effective for service rendered on  
and after \_\_\_\_\_

Issued under authority of the  
Michigan Public Service Commission  
dated \_\_\_\_\_  
in Case No. U-20713

M.P.S.C. No. 1 – Electric  
DTE Electric Company  
(Update of Rider 19)

\_\_\_\_\_ Revised Sheet No. D-118.00  
Cancels \_\_\_\_\_ Sheet No. D-118.00

MISO) settled RT-LMP at the assigned Generation Node(s). The annual reconciliation will be completed by the end of ~~April~~<sup>March</sup> for each proceeding ~~Program~~ year.

*Capacity Credit*

The customer will be provided a monthly capacity credit based on the customer’s renewable energy subscription under this ~~Rider~~<sup>Rider</sup> Program and the value of the Zone 7 Auction Clearing Price in the annual MISO Planning Resource Auction for the planning period, as determined by the Company.

(Continued on Sheet No. D-119.00)

Issued \_\_\_\_\_  
C. Serna  
Vice President  
Regulatory Affairs  
Detroit, Michigan

Effective for service rendered on  
and after \_\_\_\_\_

Issued under authority of the  
Michigan Public Service Commission  
dated \_\_\_\_\_  
in Case No. U-20713

M.P.S.C. No. 1 – Electric  
DTE Electric Company  
(Update of Rider 19)

Revised Sheet No. D-119.00  
Cancels \_\_\_\_\_ Sheet No. D-119.00

(Continued from Sheet No. D-118.00)

**STANDARD CONTRACT RIDER NO. 19 (Contd.) MIGREENPOWER – LARGE CUSTOMER VOLUNTARY GREEN PRICING PROGRAM (LCVGP) PILOT**

The ~~capacity credit auction clearing price~~ will be calculated on a per MWh basis using the formula below. The MISO Zone 7 Effective Load Carrying Capability (ELCC) will be utilized to calculate the capacity credit. The annual MISO capacity auction takes place in March with the revenue from system capacity being updated for the next twelve months beginning June 1<sup>st</sup> of each year.

$$\frac{(\text{Auction Clearing Price}) * (\%) - (\text{365 Days}) * (\%) - (\text{MISO Zone 7 ELCC} (\%)) * (\text{Project Size Capacity Credit (MW)})}{(\text{Project Size (MW)}) * (\%) \times (\text{Resource NCF}) * (8,760) - (8760 \text{ hours})}$$

The Energy and Capacity Credits shall be paid to the customer via bill credit only.

**C. Term & Form of Agreement**

The ~~Rider Program~~ shall require a written agreement with the customer with standard contract terms for a term of five (5) years, ten (10) years, fifteen (15) years, or twenty (20) years. The ~~Rider Program~~ term and billing will begin the first billing cycle after the latter of the commercial operation date of the designated renewable energy facility or the Effective Date of the customer ~~agreement~~ Agreement. After the first ~~Rider Program~~ year and beginning on a semi-annual basis thereafter, the customer may increase ~~Rider Program~~ subscription levels, subject to ~~Rider Program~~ availability. The term of the agreement will not be affected if the subscription level increases. Customers shall will notify Company of their intent to renew their agreement sixty (60) days in advance of the end of the existing contract term.

If no notice of intent is given, the customer agreement will expire at the end of the term. If the customer elects to re-enroll in the ~~Rider Program~~ after their agreement term ends, that customer will enroll at the subscription rate available at the time of renewal.

**D. Early Termination of Agreement**

The customer may elect to terminate their ~~Rider~~ subscription at any time after the initial year, subject to an early termination fee. The termination fee will be equivalent of up to one year of Rider subscription fees, calculated using the customer's previous 12 months usage data multiplied by based on the subscription fee agreed upon in terms of the customer's contract. agreement, not to exceed the remaining value of the customer agreement. If the customer or Company is able to transfer the level of subscription to another customer that meets the eligibility requirements, the termination fee will be waived. Customers who choose to terminate or transfer their ~~Rider Program~~ subscription will be required to give the Company one hundred twenty (120) days a sixty (60) day written notice. If the customer would like to re-enroll in the ~~Rider Program~~ after termination, they will be eligible, subject to the ~~Rider's Program's~~ availability and current subscription fee.

**LATE PAYMENT CHARGE:**

See Section C4.8.

Issued \_\_\_\_\_  
C. Serna  
Vice President  
Regulatory Affairs  
Detroit, Michigan

Effective for service rendered on  
and after \_\_\_\_\_  
Issued under authority of the  
Michigan Public Service Commission  
dated \_\_\_\_\_  
in Case No. U-20713

**MPSC Case No.:** U-20713  
**Requestor:** EIBCIEIAEE  
**Question No.:** EIBCIEIAEEDE-2.2  
**Respondent:** B. T. Calka  
**Page:** 1 of 1

**Question:** The Company proposes to change the way it would cost-average new projects into the subscription charge. Please provide an example or equation illustrating how customer subscription costs would be calculated as new resources are added under the current LCOE-based approach and the proposed net premium approach for cost-averaging new projects into the program.

**Answer:** Please see the illustrative example below of how customer subscription costs would be affected by a new asset with, for example, a \$55/MWh LCOE and a \$45/MWh credit. The assumed cost and credit of the existing asset is \$50/MWh with a \$30/MWh credit. The assumed capacity factor is the same for both existing and new assets.

**Existing Asset (100 MW)**  
LCOE: \$50/MWh  
Credit: \$30/MWh  
Premium: \$20/MWh

**New Asset (100 MW)**  
LCOE: \$55/MWh  
Credit: \$45/MWh  
Premium: \$10/MWh



**Current Approach**

- No change to Rider
- New asset is not cost-averaged in as LCOE is higher, and existing net premium remains \$20 MWh
- New enrollments realize a net premium of \$10/MWh

**New Approach**

- Rider is changed
- Everyone, including both existing and new enrollments, realize a net premium of \$15/MWh

**Attachments:** None.

**STATE OF MICHIGAN  
BEFORE THE MICHIGAN PUBLIC SERVICE COMMISSION**

\* \* \* \* \*

In the matter, on the Commission's own motion,	)	
regarding the regulatory reviews, revisions,	)	Case No. U-20713
determination and/or approvals necessary for	)	
regulated electric providers to comply	)	
with Section 61 of 2016 PA 342.	)	

In the matter, on the Commission's own motion,	)	Case No. U-20851
regarding the regulatory reviews, revisions,	)	
determination and/or approvals necessary to	)	
fully comply with Public Act 295 of 2008.	)	Consolidated
<hr/>		

**PROOF OF SERVICE**

STATE OF MICHIGAN     )  
  ) ss.  
COUNTY OF INGHAM     )

Sarah E. Jackinchuk, the undersigned, being first duly sworn, deposes and says that she is a Legal Assistant at Varnum LLP and that on the 23rd day of December, 2020 she served the Services List via email, Direct Testimony and Exhibits of Dr. Laura Sherman and Caitlin Marquis on behalf of the Michigan Energy Innovation Business Council, the Institute of Energy Innovation, and Advanced Energy Economy.

---

Sarah E. Jackinchuk

**SERVICE LIST MPSC CASE NO. U-20713 and U-20851 Consolidated**

---

**Administrative Law Judge**

Hon. Martin Snider  
Administrative Law Judge  
Michigan Public Service Comm.  
[sniderm@michigan.gov](mailto:sniderm@michigan.gov)

**Counsel for DTE Gas Company**

Lauren D. Donofrio  
Paula Johnson-Bacon  
[Lauren.donofrio@dteenergy.com](mailto:Lauren.donofrio@dteenergy.com)  
[Paula.bacon@dteenergy.com](mailto:Paula.bacon@dteenergy.com)  
[mpscfilings@dteenergy.com](mailto:mpscfilings@dteenergy.com)

**Counsel for Soulardarity**

Nick Leonard  
Robert A. Weinstock  
Mark N. Templeton  
Rebecca J. Boyd  
[Nicolas.leonard@glelc.org](mailto:Nicolas.leonard@glelc.org)  
[rweinstock@uchicago.edu](mailto:rweinstock@uchicago.edu)  
[templeton@uchicago.edu](mailto:templeton@uchicago.edu)  
[Rebecca.j.boyd@gmail.com](mailto:Rebecca.j.boyd@gmail.com)

**Counsel for Pine Gate Renewables LLC**

Jennifer Utter Heston  
[jheston@fraserlawfirm.com](mailto:jheston@fraserlawfirm.com)

**Counsel for Energy Michigan, Inc.**

Justin K. Ooms  
Timothy J. Lundgren  
[jkooms@varnumlaw.com](mailto:jkooms@varnumlaw.com)  
[tjlundgren@varnumlaw.com](mailto:tjlundgren@varnumlaw.com)

**Counsel for Michigan Public Service  
Commission Staff**

Nicholas Taylor  
Amit T. Singh  
Cody Matthews  
[Taylorn10@michigan.gov](mailto:TaylorN10@michigan.gov)  
[singha9@michigan.gov](mailto:singha9@michigan.gov)  
[matthewsc4@michigan.gov](mailto:matthewsc4@michigan.gov)

**Counsel for City of Ann Arbor, Michigan  
Municipal Association for Utility Issues**

Valerie J.M. Brader  
[valerie@rivenoaklaw.com](mailto:valerie@rivenoaklaw.com)  
[ctd@rivenoaklaw.com](mailto:ctd@rivenoaklaw.com)  
[ecf@rivenoaklaw.com](mailto:ecf@rivenoaklaw.com)

**Counsel for Natural Resources Defense  
Council, Michigan Environmental Council**

Lydia Barbash-Riley  
Christopher M. Bzdok  
Kimberly Flynn  
Karla Gerds  
Breanna Thomas  
[lydia@envlaw.com](mailto:lydia@envlaw.com)  
[chris@envlaw.com](mailto:chris@envlaw.com)  
[Kimberly@envlaw.com](mailto:Kimberly@envlaw.com)  
[karla@envlaw.com](mailto:karla@envlaw.com)  
[breanna@envlaw.com](mailto:breanna@envlaw.com)

**Counsel for Association of Business  
Advocating Tariff Equity (ABATE)**

Brian A. Brandenburg  
Michael J. Pattwell  
Stephen A. Campbell  
[bbrandenburg@clarkhill.com](mailto:bbrandenburg@clarkhill.com)  
[mpattwell@clarkhill.com](mailto:mpattwell@clarkhill.com)  
[scampbell@clarkhill.com](mailto:scampbell@clarkhill.com)

**Counsel for Environmental Law & Policy  
Center; Vote Solar; The Ecology Center;  
Solar Energy Industries Association**

**Margrethe Kearney**

[mkearney@elpc.org](mailto:mkearney@elpc.org)

[rlazer@elpc.org](mailto:rlazer@elpc.org)

[MPSCDocket@elpc.org](mailto:MPSCDocket@elpc.org)

**Counsel for Great Lakes Renewable Energy  
Association**

Don L. Keskey

Brian W. Coyer

[donkeskey@publiclawresourcecenter.com](mailto:donkeskey@publiclawresourcecenter.com)

[bwcoyer@publiclawresourcecenter.com](mailto:bwcoyer@publiclawresourcecenter.com)