



1 A. I began working for RENEW Wisconsin in October 1991 as its Advance Plan 6  
2 intervention manager. I became RENEW's Executive Director in 1994, and  
3 served in that capacity until 2012. I continued working for RENEW as its Policy  
4 Director, a position I held until early 2023. In my current capacity as RENEW's  
5 Clean Energy Deployment Manager, I engage in regulatory and permitting  
6 proceedings at the state and local level involving either approvals of individual  
7 renewable generation projects or broader issues affecting clean energy  
8 development across the state. My professional qualifications are further  
9 summarized in Ex.-RENEW-Vickerman-1.

10 **Q. Please describe RENEW.**

11 A. RENEW is a domestic, nonprofit corporation headquartered in Madison that  
12 works to advance the renewable energy goals adopted by the State of Wisconsin  
13 over the years. Since its founding in 1991, RENEW has worked to increase access  
14 to and development of renewable energy sources in Wisconsin to power homes,  
15 businesses, and vehicles. To that end, RENEW formulates and advocates for  
16 policies and programs to expand the use of solar power, wind power, renewable  
17 natural gas, local hydropower, ground-source and air-source heat pumps, energy  
18 storage, and electric vehicles.

19 **Q. How does RENEW advance solar power as a general policy matter?**

20 A. In recent years, solar generation has emerged from the margins of the electric  
21 power landscape to become a reliable and cost-effective energy resource for a  
22 wide variety of applications and circumstances. Solar power's emergence owes  
23 much to its remarkable scalability, unmatched by any other generation source

1 today. Many RENEW members are active in solar electric development. They  
2 include contractors and consultants specializing in behind-the-meter installations  
3 for retail customers, solar arrays directly feeding utility distribution systems, and  
4 large-scale solar power plants supplying multiple electric providers. To a degree  
5 unmatched by any other state-based organization, RENEW works to increase the  
6 accessibility of solar energy, in all sizes and configurations, to all citizens of the  
7 state. In furtherance of that aim, RENEW became the Wisconsin state chapter of  
8 the Solar Energy Industries Association in 2020.

9 **Q. What is the purpose of your testimony in this proceeding?**

10 A. The principal purpose of my direct testimony is to discuss the importance of the  
11 Silver Maple Solar project (Silver Maple Solar), proposed by Leeward Renewable  
12 Energy, an independent power producer. As a utility-scale source of zero-carbon  
13 renewable electricity, Silver Maple Solar is yet another example of the ongoing  
14 transition to replace older fossil generation sources with in-state renewable  
15 generation. This transition is, in RENEW's view, very much aligned with the  
16 public interest. I will also provide an estimate of the project's likely impact on  
17 carbon dioxide emissions attributable to Wisconsin's electric power sector.

18 **Q. Have you prepared any exhibits with your direct testimony?**

19 A. Yes. In addition to Ex.-RENEW-Vickerman-1 referenced above, I am sponsoring  
20 the following exhibits:

- 21       ▪ Ex.-RENEW-Vickerman-2, RENEW's Solar Project Tracker dated July  
22       2023.

- Ex.-RENEW-Vickerman-3, a table listing utility-scale projects in Wisconsin and their respective land coverage totals.

**Q. Were these exhibits prepared by you or under your supervision?**

**A.** Yes.

**Q. Please describe the advances that utility-scale solar power has achieved in recent years as a core generation resource in Wisconsin.**

**A.** As a component of our public education efforts, RENEW tracks solar development activity occurring in Wisconsin and periodically publishes updates on our website. As indicated in Ex.-RENEW-Vickerman-2, the state is in the early stages of a significant buildout of solar generating capacity. Though the scale of the buildout was modest at first, it has been accelerating since 2020. The largest category of solar power projects—those totaling a minimum of 100 megawatts (MW) of capacity—require a Certificate of Public Convenience and Necessity (CPCN) issued by the Public Service Commission (Commission) before they can proceed to construction. From April 2019 through June 2023, the Commission approved 16 CPCN applications accounting for 2,950 MW of solar generating capacity. Several of these solar project proposals are paired with battery energy storage systems (BESS) designed to provide grid support during the late afternoon and early evening hours. As of today, three of the solar projects that received CPCN approval—Two Creeks Solar , Point Beach Solar Solar, and Wood County—are fully operational, totaling 400 MW. Over the next 12 months, five additional plants with CPCN permits—Badger Hollow Solar 2 (150 MW), Onion River Solar (150 MW), Paris Solar (200 MW), Grant County Solar (200

1 MW), and Springfield Solar (100 MW)—should become fully operational. In  
2 addition, the Commission approved two applications from Wisconsin Power and  
3 Light to construct and operate eight solar plants that had already received siting  
4 approval from local jurisdictions. All eight plants, totaling 489 MW of capacity,  
5 are expected to be operational by June 2024. When distributed solar generation  
6 projects are added to the mix, Wisconsin could see upwards of 1,300 MW of new  
7 solar generation capacity come online before July 2024.

8 **Q. How does Silver Maple Solar fit into the solar buildout underway in**  
9 **Wisconsin?**

10 A. With the recent approvals of Portage Solar, Saratoga Solar, Northern Prairie  
11 Solar, and High Noon Solar, there are, as of this writing, three solar generation  
12 projects undergoing review via the Commission’s CPCN process, including Silver  
13 Maple Solar. The other two are Elk Creek Solar (9819-CE-100) and Langdon  
14 Mills Solar (9818-CE-100). If approved, the combined capacity of these projects  
15 would amount to 700 MW (see Table 1 on page 6), with Silver Maple Solar  
16 accounting for 200 MW of that total. All in all, I estimate that there are  
17 approximately 4,286.3 MW of utility-scale or front-of-meter solar generation  
18 projects in Wisconsin today that are either (1) operational, (2) under construction,  
19 (3) permitted but not yet under construction, or (4) undergoing siting review by  
20 either the Commission or a local jurisdiction.

<b>Table 1</b>		
<b>Solar (and storage) projects undergoing Commission review as of July 2023</b>		
<b>Project</b>	<b>Solar Capacity (in MW(AC))</b>	<b>BESS Capacity (AC capacity except where noted)</b>
Langdon Mills	200	50 MW/200 MWh
Elk Creek	300 (at POI)	76 MW(DC)/304 MWh
Silver Maple	200	None
<b>Total</b>	<b>700</b>	<b>126 MW</b>

2

3 **Q. How important are in-state sources of utility-scale solar power to the broader**  
 4 **policy aims of Wisconsin’s energy policy?**

5 A. In RENEW’s view, the solar projects listed in Ex.-RENEW-Vickerman-2 will  
 6 serve the public interest by tilting Wisconsin’s renewable generation portfolio,  
 7 now weighted in favor of out-of-state sources, firmly in the direction of in-state  
 8 facilities. In docket 5-RF-2022, the Commission staff’s 2022 Renewable Portfolio  
 9 Standard Report, issued in June 2023, contains a breakdown of 2022 renewable  
 10 generation between in-state and out-of-state sources.<sup>1</sup> In all of 2022, Wisconsin  
 11 electric providers derived only 36% of their supplies of renewable electricity from  
 12 sources located in Wisconsin, while an eye-opening 64% of the renewable  
 13 electricity sold in Wisconsin that year originated from another state. Indeed,  
 14 according to the same report, more than half (59%) of Wisconsin’s renewable

---

<sup>1</sup> See Commission Memorandum, Appendix E, PSC REF# 470111.

1 electricity came from windpower projects located in Illinois, Iowa, Minnesota and  
2 South Dakota, some of which are owned by or are operating under contract to  
3 Wisconsin electric providers.<sup>2</sup> This outsourcing of renewable power results in the  
4 export of manufacturing opportunities, local government revenues, landowner  
5 income, and workforce participation that could otherwise yield direct and indirect  
6 economic benefits to Wisconsin communities.

7 The emergence of solar energy as a reliable, low-cost source of electric  
8 power presents an opportunity to build a geographically dispersed portfolio of  
9 zero-emission plants within Wisconsin's borders. As noted earlier, this portfolio  
10 has already started to take shape. In southeastern Wisconsin, where Silver Maple  
11 Solar would be located, there is sufficient land and transmission infrastructure to  
12 accommodate additional bulk sources of solar power, whereupon they would cost-  
13 effectively serve rural and urban communities across the state. Solar power at this  
14 scale and in this region can contribute substantially to the generation transition  
15 underway to fill in the capacity holes created by retiring fossil generating plants  
16 planned for later this decade.

17 **Q. How much electricity do you estimate will be generated by this group of**  
18 **projects over their first 10 years of operation?**

19 A. In calculating the future output from these projects, I must make several  
20 assumptions regarding their productivity. For the first 29 projects listed in Ex.-  
21 RENEW-Vickerman-2, I used a capacity factor of 22.5%, even though the  
22 applications for a substantial portion of these projects assumed higher net capacity

---

<sup>2</sup> See *id.*

1 factors. While my capacity factor assumption may seem conservative, I selected  
2 22.5% as a capacity factor to internalize both project-specific losses as well as the  
3 slight degradation in performance that will occur over the course of a solar  
4 panel's operating life. That degradation factor is assumed to be 0.5%/year, or 5%  
5 over a 10-year period. That said, all of the 28 projects in the first group except the  
6 417 kW project serving Superior Water, Light and Power will utilize single-axis  
7 tracking devices to maximize the capture of the solar resource in the early  
8 morning and late afternoon hours. Most of these projects will make use of bifacial  
9 panels, which should result in increased output in the winter months relative to  
10 fixed-mount arrays. With these assumptions in mind, the combined output from  
11 the 3,522.4 MW of capacity represented in that group should average 6,942,650  
12 megawatt-hours (MWh) per annum over their first 10 years of operation, for a  
13 total of 69,426,500 MWh over a ten-year period.

14 For the second group of projects (Nos. 29-58), I reduced the capacity  
15 factor to 22.0% to account for the handful of installations in operation that rely on  
16 (a) fixed-mount racking, which is slightly less productive relative to projects that  
17 use single-axis tracking devices, and (b) monofacial panels, which are slightly  
18 less productive than bifacial panels. However, since most of the solar capacity  
19 represented in the second group operates with single-axis tracking devices, the  
20 reduction in aggregate output should be slight. With that assumption in mind, the  
21 combined output from the 763.9 MW of capacity represented in the second group  
22 should average 1,472,188 MWh per annum over the projects' first 10 years of  
23 operation, for a total of 14,721,880 MWh over a ten-year period.



1                   When the subtotals from each group are added together, the combined  
2 total should average 8,414,838 MWh per year over the projects' first 10 years of  
3 operation.

4 **Q.    What percentage of Wisconsin power generation do those numbers**  
5 **represent?**

6 A.    According to the most recent State Electricity Profile of Wisconsin published by  
7 the U.S. Energy Information Administration (EIA), the state's electricity sector  
8 generated 64,276,480 MWh in 2021.<sup>3</sup> When the estimated 8,414,838 MWh of  
9 solar generation is divided by the statewide electric generation total in 2021, that  
10 increment of solar power would have accounted for 13% of the electricity  
11 produced in Wisconsin that year.

12 **Q.    What percentage of Wisconsin electricity sales do those numbers represent?**

13 A.    A comparison of the estimated output from the solar projects listed in Ex.-  
14 RENEW-Vickerman-2 to Wisconsin electricity sales yields a similar though  
15 smaller percentage, as Wisconsin is a net importer of electricity. According to the  
16 Commission staff's Renewable Portfolio Standard Report for 2022,<sup>4</sup> annual retail  
17 sales reported by Wisconsin electricity providers over the 2019-2021 period  
18 averaged 68,684,190 MWh. When the estimated 8,414,838 MWh of solar  
19 generation is divided by the electricity sales average cited above, that increment  
20 of solar capacity would have accounted for 12.2% of the electricity sold in the  
21 state of Wisconsin during that three-year period.

---

<sup>3</sup> See Wisconsin Electricity Profile 2021, Energy Information Administration (<https://www.eia.gov/electricity/state/Wisconsin/>).

<sup>4</sup> See Commission Memorandum, Appendix C-4, PSC REF # 470111.

1                   To put the above numbers in perspective, in-state solar generation  
2                   accounted for 1.0% of total electricity sales in Wisconsin in 2022 (681,854 MWh  
3                   out of 69,934,417 MWh). These numbers also appear in the Commission staff’s  
4                   2022 Renewable Portfolio Standard Report.<sup>5</sup>

5     **Q.    What is your estimate of Silver Maple Solar’s expected contribution to that**  
6     **total?**

7     A.    To estimate Silver Maple Solar’s output over its first 10 years, I used a net  
8           capacity factor of 20.25%, consistent with the estimate of Year 1 production  
9           contained in Silver Maple Solar’s application (PSC REF#: 460330, page 31). I  
10          note that the anticipated net capacity factor for this project is lower than the  
11          estimate contained in the application for the 100 MW Northern Prairie Solar  
12          project, also developed by Leeward Renewable Energy. Operating at a 20.25%  
13          net capacity factor, Silver Maple Solar would produce an average of 355,000  
14          MWh/year over the first 10 years of its operating life, accounting for  
15          approximately 4.2% of the solar generation represented by the 58 projects listed  
16          in Ex.-RENEW-Vickerman-2.

17    **Q.    Does the EIA report emissions data attributable to Wisconsin’s electricity**  
18    **sector?**

19    A.    Yes. EIA’s 2021 profile for Wisconsin tracks carbon dioxide emissions, sulfur  
20          dioxide emissions and nitrogen oxide emissions from electricity generators in the  
21          state. The profile expresses the emissions both in terms of annual volumes and  
22          per-MWh rates. In its most recent state electricity profile of Wisconsin, EIA

---

<sup>5</sup> See Commission Memorandum, Appendix E, PSC REF # 470111.

1 reports that the state's electricity sector emitted a total of 36,408,000 metric tons  
2 of carbon dioxide in 2021.<sup>6</sup> That works out to an emissions rate of 1,246 pounds,  
3 or 0.566 metric tons, of carbon dioxide per MWh generated in Wisconsin. The  
4 emission rate reported in 2021 is higher than the numbers from the previous two  
5 years (1,188 lbs. in 2020<sup>7</sup> and 1,233 lbs. in 2019<sup>8</sup>). I estimate that it will take two  
6 more years before the cumulative impact from this wave of solar generation  
7 translates into lower CO<sub>2</sub> emissions as reported in EIA's electricity profiles for  
8 Wisconsin.

9 **Q. As a zero-carbon source of renewable electricity, how much carbon dioxide**  
10 **would Silver Maple Solar displace through its operation?**

11 A. If EIA's emission rate of 1,246 lbs./MWh were multiplied by Silver Maple  
12 Solar's expected output over its first 10 years, the project would avoid or displace  
13 an average of 201,059 metric tons of CO<sub>2</sub> per year over its first 10 years of  
14 operation, all other things being equal. While this is admittedly a crude  
15 methodology that does not take into account expected power plant retirements in  
16 the next five years, it is a reasonable approach for producing a ballpark estimate  
17 of emissions reductions from a power plant fueled by a noncombustible  
18 renewable energy source. Moreover, the calculation I provide can be updated each  
19 year when EIA publishes a new state electricity profile for Wisconsin, and can be  
20 cross-checked with every new iteration of the Strategic Energy Assessment.

---

<sup>6</sup> See Wisconsin Electricity Profile 2021, Energy Information Administration (<https://www.eia.gov/electricity/state/Wisconsin/>).

<sup>7</sup> See Wisconsin Electricity Profile 2020, Energy Information Administration (<https://www.eia.gov/electricity/state/archive/2020/Wisconsin/>).

<sup>8</sup> See Wisconsin Electricity Profile 2019, Energy Information Administration (<https://www.eia.gov/electricity/state/archive/2019/Wisconsin/>).

1 **Q. How will Silver Maple Solar contribute to system reliability?**

2 A. Utility-scale solar plants built with single-axis tracking devices are designed to  
3 follow the sun's daily path during daylight hours, starting with the first minutes of  
4 sunrise and continuing through to the final minutes of sunset. This design feature  
5 optimizes the solar plant's ability to capture sunshine in the early morning and in  
6 the late afternoon/early evening hours. The latter attribute is particularly valuable  
7 for utilities that have significant summer peaks, which tend to occur between 3:00  
8 pm and 7:00 pm in those months. This particular attribute will be valuable to  
9 Wisconsin electricity customers given the volatility of natural gas prices  
10 experienced over the last 12 months and the effects of that fuel price volatility on  
11 wholesale electricity costs.

12 **Q. How does Silver Maple Solar's footprint compare with other utility-scale  
13 solar projects in Wisconsin?**

14 A. Ex.-RENEW-Vickerman-3 is composed of a list of utility-scale solar projects in  
15 Wisconsin and the amount of acreage each project is expected to cover. The  
16 acreage totals in Ex.-RENEW-Vickerman-3 were pulled from Commission  
17 documents such as Orders and Environmental Assessments. The 28 projects  
18 listed here are either (1) online, (b) under construction, (c) permitted, or (d)  
19 currently under review by the Commission. The aggregate capacity of these  
20 projects is 4,163 MW, covering a total of 31,945 acres. From those totals, I  
21 derived the per-MW land requirements of utility-scale solar generation in  
22 Wisconsin based on the average. Looking at the current crop of solar power  
23 plants, one MW of solar generating capacity will take up 7.7 acres. According to

1 the application, Silver Maple Solar is expected to cover up to 1,296 acres, which,  
2 when divided by 200 MW, results in a per MW footprint of 6.5 acres. Thus, Silver  
3 Maple Solar’s footprint is less than the statewide average.

4 **Q. How does the anticipated output per acre from Silver Maple Solar compare**  
5 **with other renewable generation facilities in Wisconsin?**

6 A. Compared with three nearby sources of renewable generation, Silver Maple Solar  
7 would be an efficient source of renewable electricity on a per acre basis. Table 2  
8 on page 14 compares Silver Maple’s anticipated output and footprint against those  
9 of Forward Wind Energy Center, jointly owned by several Wisconsin electric  
10 utilities, and the Petenwell and Castle Rock hydroelectric plants, owned by the  
11 Wisconsin River Improvement Company. Compiled from publicly available data  
12 including utility websites, Table 2 demonstrates that utility-scale solar in general  
13 and Silver Maple in particular can be counted on to generate substantially more  
14 electricity on a per-acre basis than existing wind power and hydropower projects.  
15 This aspect of utility-scale solar is underappreciated, likely an outgrowth of  
16 solar’s lower capacity factor relative to wind and hydro. Though hydroelectric  
17 generation continues to provide a significant contribution continues to  
18 Wisconsin’s energy landscape, we tend to discount the large expanse of land  
19 needed to impound and concentrate the water resource that feeds the turbines.  
20 Regarding wind generation, we also need to account for the spacing required  
21 between turbine towers to maximize project output while complying with the  
22 siting standards specified in PSC Chapter 128. Doing so will lead to a fuller  
23 understanding of solar’s land use impacts relative to other generation and

1 nongeneration alternatives for agricultural land. But, for the time being at least, it  
 2 is quite apparent that utility-scale solar is the most space-efficient pathway  
 3 forward for achieving substantial reductions in greenhouse gas emissions using  
 4 locally available renewable resources.

5

<b>Table 2</b>				
<b>Comparison of Silver Maple Solar’s likely output and footprint compared with three nearby renewable power projects</b>				
	<b>Silver Maple</b>	<b>Forward<sup>9</sup></b>	<b>Petenwell<sup>10</sup></b>	<b>Castle Rock</b>
<b>Resource</b>	Solar	Wind	Hydro	Hydro
<b>Location (by county)</b>	Fond du Lac, Winnebago	Fond du Lac, Dodge	Juneau, Adams and Wood	Juneau, Adams
<b>Capacity (in MW)</b>	200	137.8	20	15
<b>Land coverage (in acres)</b>	1,296	4,000	25,180	14,900
<b>First year of operation</b>	2026 (estimated)	2008	1948	1951
<b>Capacity factor</b>	20.25% (estimated)	27.7% <sup>11</sup>	58%	71%
<b>Expected annual output in 2027 (in MWh)</b>	354,780	335,000	101,616 <sup>12</sup>	93,216 <sup>13</sup>
<b>Annual output per acre (in MWh)</b>	273.7	83.6	4.0	6.3

<sup>9</sup> See <https://www.wisconsinpublicservice.com/environment/pdf/forward-wind.pdf>.

<sup>10</sup> See <http://www.wvic.com/Content/Hydroplants.cfm>.

<sup>11</sup> See [https://en.wikipedia.org/wiki/Forward\\_Wind\\_Energy\\_Center](https://en.wikipedia.org/wiki/Forward_Wind_Energy_Center)

<sup>12</sup> See <https://en.wikipedia.org/wiki/PetenwellLake#:~:text=Lake%20Petenwell%20is%20an%20artificial,next%20to%20Castle%20Rock%20Lake>.

<sup>13</sup> See [https://en.wikipedia.org/wiki/Castle\\_Rock\\_Lake#:~:text=Castle%20Rock%20Lake%20is%20an,Adams%20County%20and%20Juneau%20County](https://en.wikipedia.org/wiki/Castle_Rock_Lake#:~:text=Castle%20Rock%20Lake%20is%20an,Adams%20County%20and%20Juneau%20County).

1           There are two other points worthy of consideration. Even though the  
2 footprint for Silver Maple Solar would take up only 3.2% of the acreage presently  
3 submerged under Lake Petenwell and Castle Rock Lake, the solar project would  
4 generate more electricity annually (~355,000 MWh/yr) than the hydro projects  
5 combined (~195,000 MWh/yr). In fact, if all 28 solar projects listed in Ex.-  
6 RENEW-Vickerman-3, with a combined capacity of 4,163 MW, were built and  
7 placed in service, they would occupy less land than the Petenwell and Castle Rock  
8 reservoirs.

9 **Q.   What is your view on the project’s impact on Fond du Lac County’s**  
10 **agricultural land base?**

11 A.   As noted earlier, Silver Maple Solar’s land footprint could total up to 1,296 acres,  
12 though it would undoubtedly amount to less than that once the alternate arrays are  
13 removed from the calculation. It is not clear from the application how many acres  
14 of land in Winnebago County the project would affect, but it is apparent that the  
15 bulk of the project’s land-based footprint lies within Fond du Lac County. To  
16 simplify the computational exercise that appears below, I assumed that the totality  
17 of Silver Maple Solar’s land footprint lies within Fond du Lac County.

18           Fond du Lac County has a total land area of 725 square miles, according  
19 to its website.<sup>14</sup> Multiplying 725 by 640, the number of acres in a square mile,  
20 results in a total of 464,000 acres. Of that total, there were 317,371 acres in active  
21 cultivation, according to the U.S. Department of Agriculture’s county-by-county

---

<sup>14</sup> See <https://fdlco.wi.gov/about-the-county/county-facts>.

1 census of farms and farming operations from that year.<sup>15</sup> The 317,371-acre total  
2 amounts to 68% of the total land area available in Columbia County. A project  
3 footprint of 1,296 acres or less equates to about 0.4% of the actively cultivated  
4 land identified in the Agriculture Department’s 2017 census. In reality, since a  
5 small portion of Silver Maple Solar extends into Winnebago County, the actual  
6 percentage would be less than 0.4%

7 **Q. Does RENEW support approval of the Silver Maple Solar project?**

8 A. Yes. RENEW wholeheartedly supports Commission approval of Silver Maple  
9 Solar. In our view, this project, like other large solar generating facilities that the  
10 Commission has approved, would protect human health and the natural  
11 environment while strengthening the state’s economy. As noted in the  
12 Environmental Assessments prepared for High Noon Solar<sup>16</sup>, Elk Creek Solar<sup>17</sup>,  
13 and Langdon Mills Solar<sup>18</sup>, “solar electric generation facilities in the upper  
14 Midwest typically have vegetation growing on the array sites around the site  
15 perimeter as well as between and underneath panels. This vegetation decreases the  
16 amount of impervious surface associated with the site and assists in managing  
17 storm water runoff and erosion.” Assuming input and guidance from Wisconsin  
18 Department of Natural Resources staff, Silver Maple Solar’s vegetation  
19 management plan should yield substantial environmental benefits to the area,

---

<sup>15</sup> See [https://www.nass.usda.gov/Publications/AgCensus/2017/Online\\_Resources/County\\_Profiles/Wisconsin/cp55039.pdf](https://www.nass.usda.gov/Publications/AgCensus/2017/Online_Resources/County_Profiles/Wisconsin/cp55039.pdf).

<sup>16</sup> See Environmental Assessment, 9814-CE-100 (PSC REF:# 455955).

<sup>17</sup> See Environmental Assessment, 9819-CE-100 (PSC REF:# 462044).

<sup>18</sup> See Environmental Assessment, 9818-CE-100 (PSC REF:# 463475).



1 including improved water quality and soil health, as well as increased  
2 biodiversity.

3 The project’s economic benefits would come in two forms. Initially,  
4 during its construction phase, the project has the potential to create up to 350  
5 well-paying jobs. Silver Maple Solar plans to recruit local laborers to the greatest  
6 extent possible.<sup>19</sup> Second, Silver Maple Solar will, once energized, provide  
7 \$800,000 annually in utility local aids over its operating life, split among the five  
8 local jurisdictions hosting the installation.<sup>20</sup>

9 Consistent with Wisconsin’s Energy Priorities Law, this project will  
10 provide these benefits by converting a locally available, noncombustible  
11 renewable energy resource—sunshine—to electricity, and feeding its output into  
12 the eastern Wisconsin grid. Coal and gas-fired power plants constitute the primary  
13 sources of utility-supplied electricity in eastern Wisconsin. Thus, for the  
14 foreseeable future, electricity generated by Silver Maple Solar will displace some  
15 fossil-fueled generation during daylight hours, improving air quality and reducing  
16 greenhouse gas emissions.

17 Finally, as an example of utility-scale renewable generation, Silver Maple  
18 Solar is wholly consistent with the objectives articulated of the State of Wisconsin  
19 Clean Energy Plan. As stated on page 109 of the Clean Energy Plan, “[u]tility-  
20 scale renewable generation plays a disproportionately large role in

---

<sup>19</sup> See Application of Silver Maple Solar, LLC, for Certificate of Public Convenience and Necessity (PSC REF:# 460330).

<sup>20</sup> See *id.*

1            decarbonization, as it is very cost-effective, helps reduce the energy burden for all  
2            customers, and reduces emissions from fossil plants ....”<sup>21</sup>

3    **Q.    Does this complete your direct testimony?**

4    **A.    Yes, it does.**

---

<sup>21</sup> See [https://osce.wi.gov/Documents/SOW-Clean EnergyPlan2022.pdf](https://osce.wi.gov/Documents/SOW-Clean%20EnergyPlan2022.pdf).