

Appendix A-1 – Size Determination Form - Public



Solar Energy Generating System
Size Determination Form

Minnesota Statute § 216E.021 requires combining proposed solar energy generating systems for permitting purposes when certain conditions exist. The Department of Commerce requires the information requested below to determine 1) whether proposed solar energy generating systems meet the definition of a large electric power generating plant and, therefore, are subject to the Public Utilities Commission's siting authority; or 2) whether large electric power generating plants that are solar energy generating systems should be combined for permitting purposes. Based on the information provided, Commerce staff may require additional information to make a determination.

Instructions: Answer each question completely. Each question and answer must be clearly identified. Attach maps and supporting information as necessary. Return the signed and dated information to:

Louise Miltich
Minnesota Department of Commerce
85 Seventh Place East, Suite 280
Saint Paul, MN 55101-2198

Phone: (651) 539-1853
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Note: This form can be made available electronically, and submitted as an electronic document.

A. Project Description

Briefly describe the proposed project or projects, including name(s); need for the project(s); number of solar energy generating systems; alternating current nameplate capacity of the individual solar energy generating systems identified; and the combined alternating current nameplate capacity.

Lake Wilson Solar Energy LLC ("Lake Wilson Solar"), a wholly owned subsidiary of Invenergy Solar Development North America LLC, an affiliate of Invenergy LLC, proposes an up to 150¹ megawatt ("MW") photovoltaic ("PV") solar-energy generating system and associated battery storage at a single-site in Murray County, Minnesota (the "Project"). Lake Wilson Solar will be submitting an application to the Minnesota Public Utilities Commission ("PUC") for up to 150 MW AC of nameplate solar-energy capacity together with up to 50 MW of battery storage capacity as an associated facility.

¹ The Project capacity of up to 150 MW is based on the maximum, alternating current, power injection capacity of the facility that is defined in the Generator Interconnection Agreement.

The approved interconnection capacity for 150 MW solar and 50 MW storage will come from two separate interconnection requests, but both will operate in tandem as one combined facility.

Construction of both the solar and storage components of the overall Project are expected to occur simultaneously. Additionally, Lake Wilson Solar intends to finance the Project's construction as a single combined project while also marketing the power generated by the facility with the power stored and metered back into the grid together. Operationally, there is not expected to be any discernable difference between the solar and storage components of the Project.

The Project will be located in Murray County, and the Project area (i.e., land under lease or easement) spans approximately 3,318 acres with the anticipated project footprint being approximately 1,581 acres in Chanarambie and Leeds Townships. The Project proposes to interconnect to the existing Northern States Power Fenton - Chanarambie 115 kilovolt (kV) line, which transects the central portion of Project. Additionally, both the solar and storage components of the Project will use the same switchyard, which is to be permitted, constructed, and operated by Northern States Power.

The Project is necessary to meet the growing demand for additional renewable resources required to meet the Renewable Energy Standard set forth in Minnesota Statutes and other clean energy requirements in Minnesota, neighboring states, and the country at large.

B. Project Design and Location

Provide the following information regarding each solar energy generating system:

B-1. Describe the 1) solar generating equipment and associated facilities; 2) project boundary location(s) (county, township, and sections); 3) the area within the project boundary (acres); and 4) area within the project boundary that will be developed for the solar project (acres).

The Project's permanent facilities may include:

- Solar modules, inverters, and racking;
- On-site electrical collection lines;

- A Project substation including one or more step-up power transformers;
- A switchyard, to be permitted, constructed, and operated by Northern States Power;
- An overhead transmission line (gen-tie);
- Battery Energy Storage System (BESS) and collection system;
- Fencing;
- Access roads;
- An Operations and Maintenance (O&M) building; and
- Ancillary equipment and buildings as necessary.

The Project is planned in the following sections in Murray County, Minnesota:

Township	Range	Section(s)
106N	43W	13, 24
106N	42W	15, 16, 17, 19, 20, 21, 22, 27, 30

The Project area includes approximately 3,318 acres in total with 2,700 acres under solar lease and 470 acres under electrical collection easements. The anticipated Project footprint is expected to be approximately 1,581 acres. Lake Wilson Solar continues to analyze the optimal design layout within the Project area, and the exact acres utilized will depend on final design. Areas are subject to applicable setbacks and public rights-of-way. A figure showing the Project area and the preliminary development area (i.e., Project footprint) is attached to this form as Figure 1.

B-2. Describe the anticipated point of electrical interconnection. Describe interconnection requests and the status of each request. Provide any assigned project or queue interconnection numbers.

The Project will interconnect at a new switchyard to be permitted, constructed, owned and operated by Northern States Power on the existing Northern States Power Fenton to Chanarambie 115 kilovolt (kV) line in Murray County, MN.

The Project has two interconnection requests for the solar and storage facilities:

(1) MISO Queue [REDACTED]

[REDACTED] study group, which began in Q4 2017. The project signed a GIA in Q4 2021. This interconnection request also includes 30MWs of the total 50MW storage component via MISO's surplus interconnection process; and

(2) MISO Queue [REDACTED] which accounts for the final 20MWs of battery storage capacity, was filed in MISO's [REDACTED]

[REDACTED] study group. The entire facility will utilize the same switchyard described above, interconnecting to the Fenton to Chanarambie 115 kilovolt (kV) line in Murray County, MN, unless otherwise required to construct additional infrastructure by MISO. A signed GIA is expected in Q4 2021 per the current MISO schedule.

Both interconnection requests will operate as a single project and share a project substation.

In accordance with Minnesota Rules, part 7829.0500, Minn. Stat. Ch. 13 and the Commission's standard procedures, Lake Wilson Solar has designated as trade secret certain commercially sensitive information, i.e., the MISO queue information, which is considered confidential and proprietary trade secret information, provided to answer the questions posed in this form. Release of this data would have a detrimental effect on Lake Wilson Solar by providing potential competitors and others with valuable information not otherwise readily ascertainable and from which these persons would obtain economic value.

B-3. Provide a map showing the proposed facility boundary, the interconnection site, anticipated solar module layout, and associated facilities. "Associated facilities" includes access roads, operation and maintenance facilities, collector and feeder lines, and substations. Maps should be at 1:24,000 scale using an imagery basemap. The map must include a legend and scale bar.

The attached Figure 1 shows the project area/boundary, preliminary development footprint, and point of interconnect for the solar project and associated storage component. Further revisions may occur as the Project advances towards filing.

C. Project Characteristics

Provide the following information regarding each solar energy generating system:

C-1. List and describe the entity responsible for constructing the project.

Lake Wilson Solar will be responsible for constructing the Project. Lake Wilson Solar has not yet selected a construction contractor for the Project.

C-2. List and describe the entity responsible for operating and maintaining the project.

Lake Wilson Solar will be responsible for operating and maintaining the Project.

C-3. Describe the ownership structure, sales agreement(s), interconnection(s), revenue sharing, debt or equity financing, and any other characteristics of the solar energy generating system. Include a statement indicating whether these characteristics are "independent" or "shared." If shared, indicate with what existing or proposed project.

Lake Wilson Solar is an independent power producer that was formed to own, construct and operate the Project. Lake Wilson Solar is solely-owned by Invenergy Solar Development North America LLC, an affiliate of Invenergy LLC. Lake Wilson Solar will continue to own, operate and construct the Project after construction. However, it is possible that the Project could be sold to another entity in which case, Lake Wilson Solar and the buyer would request a transfer of the Site Permit. The Project's solar and battery storage queue positions includes only enough capacity to serve the Project. Accordingly, the Project will not share interconnection with any other project. Lake Wilson Solar does not currently have or anticipate sharing revenue, debt or equity financing with any other project.

C-4. Provide the anticipated schedule for completion, including dates for permitting, construction (start and end dates), and commercial operation.

Lake Wilson Solar plans to file a site permit application in the fourth quarter of 2021 or first quarter of 2022 so that it receives Commission approval for the Project in late 2022 or early 2023. Construction is anticipated to begin as early as spring of 2023 with commercial operation expected by the end of 2024 or later.

D. Applicant Information

D-1. Provide the name, address, email, and telephone number of the applicant and any authorized representative.

Lake Wilson Solar Energy LLC
One South Wacker Drive
Suite 1800
Chicago, IL 60606

Representatives:
Mark D. Crowl
Invenergy LLC
1401 17th St.
Suite 11100
Denver, CO 80202
mcrowl@invenergy.com
Direct: (918)-237-6417

Jeremy Duehr
Fredrikson & Byron, P.A.
200 South Sixth Street, Suite 4000
Minneapolis, MN 55402
Direct: 612.492.7413
jduehr@fredlaw.com

D-2. Provide the name, address, e-mail, and telephone number of the person or persons who would prepare the application to the Public Utilities Commission or to a Minnesota county or local unit of government, if such an application would be prepared by an agent or consultant of the applicant.

Joe Sedarski
Westwood Professional Services
12701 Whitewater Drive, Suite 300
Minnetonka, MN 55343
Direct: 952.207.7631
joe.sedarski@westwoodps.com

D-3. Briefly describe the applicant's business entity including its ownership and financial structure.

Lake Wilson Solar was formed for the purpose of developing this Project. Lake Wilson Solar is solely owned by Invenergy Solar Development North America LLC, an affiliate of Invenergy LLC, a leading North American renewable energy company based in Chicago, Illinois. Invenergy has a portfolio of solar, wind, and energy storage projects located throughout the United States in various stages of development, construction and operation.

D-4. Provide the Minnesota Secretary of State organizational ID number for the applicant business entity, all subordinate entities, and all solar developer entities involved with the project.

Lake Wilson Solar's Minnesota Secretary of State organizational identification number is 992603900021. Lake Wilson Solar does not have any subordinate entities. Lake Wilson Solar is solely owned by Invenergy Solar Development North America LLC, an affiliate of Invenergy LLC, the developer of the Project.

D-5. Identify and provide contact information for the person or persons who would be the permittees, if different than the applicant, if the solar energy generating systems were permitted by the Public Utilities Commission or a Minnesota county.

The permittee is Lake Wilson Solar Energy LLC, who is also the applicant.

Representatives:
Mark D. Crowl
Lake Wilson Solar Energy LLC
1401 17th St.
Suite 11100
Denver, CO 80202
mcrowl@inenergy.com
Direct: (918)-237-6417

E. Other Projects in Minnesota

E-1. Identify any planned or existing solar energy generating system(s) in Minnesota in which the applicant, or a principal, partner, or affiliate of the applicant, has an ownership or other financial interest. Describe any facilities identified, including their location, alternating current nameplate capacity, and their interconnection requests.

The following large solar energy projects are also currently being developed by affiliates of Lake Wilson Solar. This information is being provided to answer the questions posed in this form. Lake Wilson Solar and its affiliates consider this information to be proprietary trade secret information that should not be disclosed to the public. If it were disclosed to the public, it would cause harm to Lake Wilson Solar and its affiliates:

[REDACTED]

E-2. Identify any additional solar energy generating system(s) in Minnesota in which the applicant, or principal, partner, or affiliate of the applicant, has an ownership or other financial interest and is currently under construction or construction is planned to begin within 12 months of the proposed project(s) estimated completion date. Describe any facilities identified, including their location, alternating current nameplate capacity, and their interconnection requests.

None

E-3. Identify any planned or existing solar energy generating system(s) in Minnesota which that shares any of the following with the proposed project: power purchase agreement, interconnection, sales, revenues, debt or equity financing, or other ownership or financial interests. Describe any facilities identified, including their location, alternating current nameplate capacity, and their interconnection requests.

None.