

**STATE OF VERMONT  
PUBLIC SERVICE BOARD**

Docket No. \_\_\_\_\_

Petition of Addison Solar Farm, LLC, pursuant to )  
30 V.S.A. § 248, for a certificate of public good )  
authorizing the installation and operation of a one )  
MW solar electric generation facility located at )  
Route 7 and Monkton Road, Ferrisburgh, Vermont, )  
known as the "Ferrisburgh Solar Farm Project" )

**PETITION FOR CERTIFICATE OF PUBLIC GOOD**

NOW COMES Addison Solar Farm, LLC ("ASF"), and files this Petition, pursuant to 30 V.S.A. § 248 and Public Service Board ("Board") Rule 5.400, requesting the Board to issue a Certificate of Public Good for the so-called Ferrisburgh Solar Farm Project ("Project").

By this Petition, ASF represent as follows:

1. ASF is a Vermont limited liability company, with principal offices at 69 College Street, Burlington, VT 05401.
2. The Ferrisburgh Solar Farm Project is a proposed one (1) megawatt (MW) solar electric generation project on a portion of a 16+/- acre undeveloped parcel of land located at the southwest corner of Route 7 & Monkton Road in Ferrisburgh, Vermont. The parcel has a southern slope, enhancing its value as a site for solar electric production.
3. The nameplate capacity of the Project is 1.04 MW DC, prior to conversion to AC. The expected net energy output of the Project (after DC to AC conversion) is 1,200+/- megawatt hours of electricity (MWh) (1,200,000 kWh) per year. This is the equivalent of the annual electricity consumption of roughly 170 homes, based upon the average residential electricity use in Vermont.

4. Once constructed, Ferrisburgh Solar Farm will be one of the largest solar energy installations in the State of Vermont and in the Northeast.
5. The Project's location along Route 7, a relatively high traffic road, and its proximity to Vergennes Union High School, offers an excellent opportunity to inform and educate the public about a form of commercial scale renewable energy that is new to Vermont. Consequently, Ferrisburgh Solar Farm will include an education component through an information kiosk and associated parking, and through education partnerships with the adjacent Vergennes Union High School.
6. The Project is being developed under the SPEED "Standard Offer" program. A Standard Offer contract has been executed with the SPEED Facilitator. The Standard Offer contract provides for the sale of the Project's output and other attributes, including RECs, at a fixed price for a period of 25 years.
7. The Project will need to be constructed and operational by December 31, 2010 in order to be eligible for the Vermont Business Solar Tax Credit.
8. The Ferrisburgh Solar Farm, as a renewable energy resource, would contribute to the State meeting its energy and sustainability goals, including, by the year 2025, to produce 25 percent of the energy consumed within the state through the use of renewable energy sources, particularly from Vermont's farms and forests.
9. The Ferrisburgh Solar Farm will contribute positively to the local and State economy through the almost exclusive use of in-state suppliers, contractors, and consultants, and the payment of local and state property taxes.
10. The Project's equipment consists of the following: individual polycrystalline solar photovoltaic panels, a metal support structure under the panels to create south facing collector arrays, electrical lines in underground conduit connecting the panels to the

inverters and switch gear enclosure, and underground electrical lines from the interconnection transformer to the GMP distribution system. The individual panels making up each solar array will be either 200 watts or 270 watts each, depending upon the model ultimately chosen. In either case the overall footprint of the solar field will remain the same; the only difference in the site plan will be slightly wider spacing between solar arrays and fewer rows if the 270 watt panels are used.

11. Approximately 5,200 individual 200-watt solar panels will be used (or 3,872 if the 270 watt panel is used). The solar panels will be attached to a fixed mounting system composed of steel and aluminum support pieces. The mounting structure will be arranged in east to west rows with panels placed two high on each row. The panels will be tilted at 30 degrees and facing solar south (195 degrees magnetic).
12. The inverters will convert the DC current generated by the solar panels into AC current. Four, 260 kW inverters will be housed in a pre-fabricated enclosure. All electrical conduits and lines will run underground from the solar panels to the inverter enclosure. A medium voltage transformer located adjacent to the inverter enclosure transforms the 480-volt inverter output to 12.47 kV for interconnection to the Green Mountain Power system.
13. In support of this Petition, ASF submits testimony and exhibits that address each of the § 248 (b) criteria.

### **Request for Relief**

WHEREFORE, ASF respectfully requests this Board to:

- A. Hold a prehearing conference as expeditiously as possible, on or before February 26, 2010, on the Petition;

- B. Hold technical hearings as the Board determines are necessary, no later than June 2010;
- C. Render a decision on this Petition no later than early July 2010;
- D. Make findings as required by 30 V.S.A. § 248 finding that ASF shall be authorized to construct and operate a 1 MW solar electric generation facility at Route 7 and Monkton Road in the Town of Ferrisburgh, Vermont, and that the Project will promote the general good of the State of Vermont, and authorize ASF to undertake the actions described herein and in the attached testimony and exhibits and issue a Certificate of Public Good to that effect; and
- E. Take such other action as may be required for the expeditious review of this Petition.

DATED at Burlington, Vermont, this 9<sup>th</sup> day of February, 2010.

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