

**STATE OF VERMONT  
PUBLIC SERVICE BOARD**

Petition of South Forty Solar, LLC for a )  
certificate of public good, pursuant to 30 )  
V.S.A. § 248, authorizing the installation and )  
operation of a 2.5 MW solar electric )  
generation facility located off of Sunset Cliff )  
Road in Burlington, Vermont, to be known as )  
the “South Forty Solar Farm” )

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

**PETITION FOR CERTIFICATE OF PUBLIC GOOD**

NOW COMES South Forty Solar, LLC (“SFS”) 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 South Forty Solar Farm (“the Project”).

By this Petition, SFS represents as follows:

1. SFS is a Vermont limited liability company with principal offices at 300 Swift Street, South Burlington, Vermont 05403.
2. The South Forty Solar Farm Project is a proposed 2.5 megawatt (MW) solar electric generation project to be located on a 18.5 acre portion of a 40.9 (±) acre parcel of land held by Keystone Development Corporation (an affiliate of SFS) under a long-term lease. The site is off of Sunset Cliff Road (a private road) and Starr Farm Road in Burlington, Vermont.
3. The nameplate capacity of the Project is 2.5 megawatts (MW) AC. The Project is expected to produce a net energy output (after DC to AC conversion) of 4,000,000 kWh per year. This is the equivalent of the annual electricity consumption of approximately 740 homes, based upon the average residential electricity use in Vermont.
4. The South Forty Solar Farm, as a renewable energy resource, would contribute to the State meeting its energy and sustainability goals of obtaining 90 percent of its total energy from renewable sources by 2050. It will also help Burlington Electric Department implement its

Integrated Resources Plan, which calls for increasing its renewable portfolio, including through power purchase agreements with solar facilities located in the City of Burlington.

5. SFS will also contribute positively to the local and State economy through the use of in-state suppliers, contractors, and consultants where commercially practicable, and the payment of local and state property taxes.
6. 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 Burlington Electric Department distribution system. The individual panels making up each solar array are anticipated to be approximately 315 watts each (depending upon the final selection of a solar installer and panel manufacturer). While each panel may be somewhat less or more than 315 watts, the total project size will not exceed 2.5 MW (AC), and the Project's footprint will not materially change.
7. Approximately 10,800 individual 315-watt solar panels will be used. The solar panels will be attached to 300 ( $\pm$ ) arrays composed of steel and aluminum support pieces. The support structures are designed to hold the solar panels 4 feet above ground to allow for snow pack and will have a total height of approximately 10–11 feet. The panels will be tilted at 30 degrees and will face solar south.
8. The inverters will convert the DC current generated by the solar panels into AC current. Four inverters will be housed in two pre-fabricated enclosures (1.5 MW and 1 MW). All electrical conduits and lines, with the exception of those running across the wetland and wetland buffer located on the site, will be located underground from the solar panels to the

inverter enclosure. Two transformers located adjacent to the inverter enclosures will step up the voltage for interconnection to the Burlington Electric Department system.

9. In support of this Petition, SFS submits testimony and exhibits that address each of the Section 248(b) criteria.

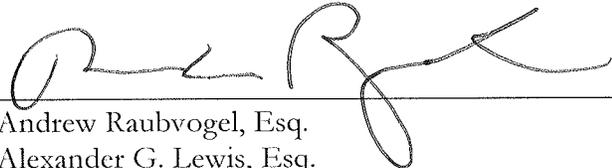
**Request for Relief**

WHEREFORE, SFS respectfully requests this Board to:

- A. Hold a prehearing conference as expeditiously as possible on the Petition;
- B. Hold technical hearings, if the Board determines such hearings are necessary;
- C. Render a decision on this Petition as soon as possible;
- D. Make findings as required by 30 V.S.A. § 248 finding that SFS shall be authorized to construct and operate a 2.5 MW solar electric generation facility off of Sunset Cliff Road (private) in Burlington, Vermont, and that the Project will promote the general good of the State of Vermont, and authorize SFS 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 and approval of this Petition.

Dated at Burlington, Vermont, this 14<sup>th</sup> day of August, 2015.

SOUTH FORTY SOLAR, LLC

By: 

Andrew Raubvogel, Esq.

Alexander G. Lewis, Esq.

Dunkiel Saunders Elliott Raubvogel & Hand, PLLC

91 College Street

PO Box 545

Burlington, VT 05402-0545

(802) 860-1003, ext. 107 (voice)

(802) 860-1208 (fax)

araubvogel@dunkielsaunders.com

alewis@dunkielsaunders.com