

DE13-047

February 5, 2013

161 Carriage Rd.
New Boston, NH 03070

Debra A. Howland
Executive Director
New Hampshire Public Utilities Commission
21 South Fruit St., Suite 10
Concord, NH 03301-2429



Dear Director Howland,

Please find enclosed one(1) original and two(2) paper copies of the completed application for Renewable Energy Source Eligibility for Class I and Class II Sources with a Capacity of 100 Kilowatts or Less. An electronic version, in PDF format of the completed application and this cover letter is also being sent via email to:
executive.director@puc.nh.gov.

The application contains information on our Class II solar PV generation facility at our residence in New Boston, NH.

Please contact me with any questions or concerns.

Sincerely,

Abe Fanning
603.487.3112(home)
603.785.4284(cell)
abefanning@comcast.net

73706-87210



State of New Hampshire
Public Utilities Commission



21 S. Fruit Street, Suite 10, Concord, NH 03301-2429

**DRAFT APPLICATION FORM FOR
RENEWABLE ENERGY SOURCE ELIGIBILITY FOR CLASS I AND CLASS II
SOURCES WITH A CAPACITY OF 100 KILOWATTS OR LESS**

*Pursuant to New Hampshire Administrative Code [Puc 2500](#) Rules including Puc 2505.08, Certification of
Certain Customer-Sited Sources*

- Please submit one (1) original and two (2) paper copies of the completed application and cover letter* to:

Debra A. Howland
Executive Director
New Hampshire Public Utilities Commission
21 South Fruit Street, Suite 10
Concord, NH 03301-2429

- Send an electronic version of the completed application and the cover letter electronically to executive.director@puc.nh.gov.

* The cover letter must include complete contact information and identify the renewable energy class for which the applicant seeks eligibility. Pursuant to Puc 2505.01, the Commission is required to render a decision on an application within 45 days of receiving a completed application.

If you have any questions please contact Barbara Bernstein at (603) 271-6011 or Barbara.Bernstein@puc.nh.gov.

Check the applicable class:

Eligibility Requested for Class I ☐ Class II ☒

Applicant Name: Abe Fanning

Mailing Address: 161 Carriage Rd

Town/City: New Boston State: NH Zip Code: 03070

Primary Contact: Abe Fanning

Telephone: 603-487-3112 Cell: 603-785-4284

Email address: abefanning@comcast.net

The facility name and contact information (if different than applicant contact information).

Facility Name: VeriTech Solar

Mailing Address: 161 Carriage Rd

Town/City: New Boston

State: NH

Zip Code: 03070

Primary Contact: Abe Fanning

Telephone: 603-487-3112

Cell: 603-785-4284

Email address: abefanning@comcast.net

Provide a complete list of the equipment used at the facility, including the meter, and, if applicable, the inverter:

quantity		quantity	
2	Inverter-SolarEdge SE6000A-US	57	Astronergy 245W Panels CHSM6610P-245
1	GE Utility Meter Type I-70-S	57	SolarEdge PowerBox OP250-LV-MC4SM
1	Eaton 100A External Disconnect		

What is the nameplate capacity of your facility? 12 KW

What was the initial date of operation? January 1, 2013

*This is typically included in the interconnection agreement. Provide this documentation as **Attachment A**.*

Provide the name, license number and contact information of the installer, or indicate that the equipment was installed directly by the customer.

Installer Name: Customer/Owner Installed

Installer Address: _____

License #: _____

Town/City: _____

State: _____

Zip Code: _____

Telephone: _____

Cell: _____

Email address: _____

If the equipment was installed directly by the customer, please check here:

☒

Provide the name and contact information of the equipment vendor:

☐ Check here if the installer and the equipment vendor were one and the same.

Business Name: Wholesale Solar

Vendor's Name: _____

Business Address: PO Box 124

Town/City: Mt. Shasta State: CA Zip Code: 96067

Telephone: 800-472-1142 Cell: _____

Email address: sales@wholesalesolar.com

If an independent electrician was used, please provide the following information:

Electrician's Name: Not Used

Business Name: _____

Business Address: _____

Town/City: _____ State: _____ Zip Code: _____

License # _____

Provide the name and contact information of the independent monitor for this facility.

(A [list](http://www.puc.nh.gov/Sustainable%20Energy/Renewable_Energy_Source_Eligibility.htm) of independent monitors is available at:

http://www.puc.nh.gov/Sustainable%20Energy/Renewable_Energy_Source_Eligibility.htm.)

Independent Monitor's Name: Thomas Kelly

Town/City: Merrimack State: NH Zip Code: 03054

Telephone: 603-546-5816 Cell: _____

Email address: tom@naturalcapital-llc.com

Provide documentation of the applicable distribution utility's approval of the installation (This is usually included in the interconnection agreement.) If this documentation is separate from the interconnection document, please provide this as **Attachment B**.

Is the facility certified under another state's renewable portfolio standard? yes _____ no X

If "yes", then provide proof of the certification as **Attachment C**.

In order to qualify your facility's electrical production for Renewable Energy Certificates (RECs), you must register with the NEPOOL – GIS. Contact information for the GIS administrator follows:

James Webb
Registry Administrator, APX Environmental Markets
224 Airport Parkway, Suite 600, San Jose, CA 95110
Office: 408.517.2174
jwebb@apx.com


Mr. Webb will assist you in obtaining a GIS facility code and, if applicable, an ISO-New England asset ID number.

GIS Facility Code # NON36099 Asset ID # _____

Complete an attestation by the applicant that the project is installed and operating in conformance with any applicable state/local building codes. Use either the following attestation or provide a separate document as **Attachment D**.

ATTESTATION

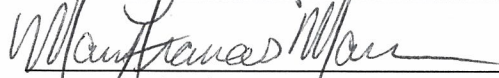
The Undersigned applicant declares under penalty of perjury that the project is installed and operating in conformance with all applicable building codes.

Applicant's Signature  Date 2/4/2013

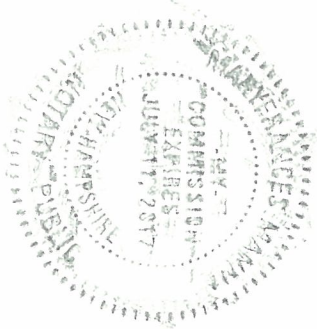
Applicant's Printed Name Abe Fanning

Subscribed and sworn before me this 4 Day of February (month) in the year 2013

County of Hillsborough State of New Hampshire


Notary Public/Justice of the Peace

My Commission Expires July 11, 2017



CHECK LIST: The following has been included to complete the application:	YES
• All contact information requested in the application.	✓
• A copy of the interconnection agreement, nameplate capacity and date of operation (Attachment A.)	✓
• Documentation of the distribution utility's approval of the installation.* (Attachment B.)	✓
• If the facility is participating in another state's renewable portfolio standard (RPS) program, documentation of certification in other state's RPS. (Attachment C).	N/A
• A signed and notarized attestation or Attachment D.	✓
• A GIS number has been obtained.	✓
• The distribution utility's approval of the installation.*	✓
• The document has been printed and notarized.	✓
• The original and 2 copies are included in the packet mailed to Debra Howland, Executive Director of the PUC.	✓
• An electronic version of the completed application has been sent to executive.director@puc.nh.gov .	✓
<i>*Usually included in the interconnection agreement. If the interconnection agreement contains this information, attachment B is not necessary.</i>	

PREPARER'S INFORMATION

Preparer's Name: Owner prepared.

Mailing Address: _____

Town/City: _____ State: _____ Zip Code: _____

Telephone: _____ Cell: _____

Email address: _____

Preparer's Signature: _____

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

Simplified Process Interconnection Application and Service Agreement

Contact Information:

Date Prepared: 11/26/12

Legal Name and Address of Interconnecting Customer (or, Company name, if appropriate)

Customer or Company Name (print): Abraham & Helen Fanning

Contact Person, if Company:

Mailing Address: 161 Carriage Rd

City: New Boston

State: NH

Zip Code: 03070

Telephone (Daytime): 603 785 4284 (cell)

(Evening): 603 487 3112 (Home)

Facsimile Number:

E-Mail Address: abc.fanning@comcast.net

Alternative Contact Information (e.g., system installation contractor or coordinating company, if appropriate):

Name:

Mailing Address:

City:

State:

Zip Code:

Telephone (Daytime):

(Evening):

Facsimile Number:

E-Mail Address:

Electrical Contractor Contact Information (if appropriate):

Name:

Mailing Address:

City:

State:

Zip Code:

Telephone (Daytime):

(Evening):

Facsimile Number:

E-Mail Address:

Facility (Site) Information:

✓ Facility (Site) Address: 161 Carriage Rd

City: New Boston

State: NH

Zip Code: 03070

Electric Service Company: PSNH

Account Number: 56545641037

Meter Number: D58692682 ✓

Electricity Supply Company: PSNH

Account Number: 56545641037

Generator/Inverter Manufacturer: Solar Edge ✓

Model Name and Number: SE6000-US

Quantity: 2 ✓

✓ Nameplate Rating: 6 (kW)

(kVA) 240

(AC Volts)

Phase: Single ☒

or Three ☐

System Design Capacity: 12 (kVA)

(kVA)

Battery Backup: Yes ☐

No ☒

Net Metering: If Renewably Fueled, will the account be Net Metered? Yes ☒

No ☐

Prime Mover: Photovoltaic ☒

Reciprocating Engine ☐

Fuel Cell ☐

Turbine ☐

Other ☐

Energy Source: Solar ☒

Wind ☐

Hydro ☐

Diesel ☐

Natural Gas ☐

Fuel Oil ☐

Other ☐

✓ UL 1741.1 / IEEE 1547.1 Compliant: Yes ☒

No ☐

External Manual Disconnect: Yes ☒

No ☐

✓ Estimated Install Date: December 2012

Estimated In-Service Date: December 2012

Interconnecting Customer Signature:

I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the **Terms and Conditions for Simplified Process Interconnections** attached hereto:

Customer Signature: Abraham Fanning

Title: Owner

Date: 11/26/12

Please attach any documentation provided by the inverter manufacturer describing the inverter's UL 1741 listing.

Approval to Install Facility (For Company use only)

Installation of the Facility is approved contingent upon the terms and conditions of this Agreement, and agreement to any system modifications, if required. Are system modifications required? Yes ☐

No ☒

To be Determined ☐

Company Signature: Michael Motta

Title: SR. ENGINEER

Date: 11-26-12

REQUIREMENT FOR EXTERNAL AC DISCONNECT SWITCH.

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

Terms and Conditions for Simplified Process Interconnections

Company waives inspection/Witness Test: Yes ☐ No ☒

Date of inspection/Witness Test: PLEASE CALL
TO SCHEDULE

1. **Construction of the Facility.** The Interconnecting Customer may proceed to construct the Facility in compliance with the specifications of its Application once the Approval to Install the Facility has been signed by the Company.
2. **Interconnection and operation.** The Interconnecting Customer may operate Facility and interconnect with the Company's system once the all of the following has occurred:
 - 2.1. **Municipal Inspection.** Upon completing construction, the Interconnecting Customer will cause the Facility to be inspected or otherwise certified by the local electrical wiring inspector with jurisdiction.
 - 2.2. **Certificate of Completion.** The Interconnecting Customer returns the Certificate of Completion to the Agreement to the Company at address noted.
 - 2.3. **Company has completed or waived the right to inspection.**
3. **Company Right of Inspection.** The Company will make every attempt within ten (10) business days after receipt of the Certificate of Completion, and upon reasonable notice and at a mutually convenient time, conduct an inspection of the Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with the Interconnection Standard. The Company has the right to disconnect the Facility in the event of improper installation or failure to return Certificate of Completion. All projects larger than 10 kVA will be witness tested, unless waived by the Company.
4. **Safe Operations and Maintenance.** The Interconnecting Customer shall be fully responsible to operate, maintain, and repair the Facility.
5. **Disconnection.** The Company may temporarily disconnect the Facility to facilitate planned or emergency Company work.
6. **Metering and Billing.** All renewable Facilities approved under this Agreement that qualify for net metering, as approved by the Commission from time to time, and the following is necessary to implement the net metering provisions:
 - 6.1. **Interconnecting Customer Provides:** The Interconnecting Customer shall furnish and install, if not already in place, the necessary meter socket and wiring in accordance with accepted electrical standards. In some cases the Interconnecting Customer may be required to install a separate telephone line.
 - 6.2. **Company Installs Meter.** The Company will make every attempt to furnish and install a meter capable of net metering within ten (10) business days after receipt of the Certificate of Completion if inspection is waived, or within 10 business days after the inspection is completed, if such meter is not already in place.
7. **Indemnification.** Interconnecting Customer and Company shall each indemnify, defend and hold the other, its directors, officers, employees and agents (including, but not limited to, Affiliates and contractors and their employees), harmless from and against all liabilities, damages, losses, penalties, claims, demands, suits and proceedings of any nature whatsoever for personal injury (including death) or property damages to unaffiliated third parties that arise out of, or are in any manner connected with, the performance of this Agreement by that party, except to the extent that such injury or damages to unaffiliated third parties may be attributable to the negligence or willful misconduct of the party seeking indemnification.
8. **Limitation of Liability.** Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
9. **Termination.** This Agreement may be terminated under the following conditions:
 - 9.1. **By Mutual Agreement.** The Parties agree in writing to terminate the Agreement.
 - 9.2. **By Interconnecting Customer.** The Interconnecting Customer may terminate this Agreement by providing written notice to Company.
 - 9.3. **By Company.** The Company may terminate this Agreement (1) if the Facility fails to operate for any consecutive 12 month period, or (2) in the event that the Facility impairs or, in the good faith judgment of the Company, may imminently impair the operation of the electric distribution system or service to other customers or materially impairs the local circuit and the Interconnecting Customer does not cure the impairment.
10. **Assignment/Transfer of Ownership of the Facility.** This Agreement shall survive the transfer of ownership of the Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the Company.
11. **Interconnection Standard.** These Terms and Conditions are pursuant to the Company's "Interconnection Standards for Inverters Sized Up to 100 kVA" for the Interconnection of Customer-Owned Generating Facilities, as approved by the Commission and as the same may be amended from time to time ("Interconnection Standard"). All defined terms set forth in these Terms and Conditions are as defined in the Interconnection Standard (see Company's website for the complete document).

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA (Continued)

RECEIVED
JAN 02 2013

BY:

Exhibit B - Certificate of Completion for Simplified Process Interconnections

Installation Information:

☒ Check if owner-installed

Customer or Company Name (print): Abraham + Helen Fanning

Contact Person, if Company: _____

Mailing Address: 161 Carriage Rd

City: New Boston State: NH Zip Code: 03070

Telephone (Daytime): 603 854-2844 (cell) (Evening): 603 487 3112 (Home)

Facsimile Number: _____ E-Mail Address: abcfanning@comcast.net

Address of Facility (if different from above): Same as above

City: _____ State: _____ Zip Code: _____

Generation Vendor: _____ Contact Person: _____

I hereby certify that the system hardware is in compliance with Puc 900.

Vendor Signature: _____ Date: _____

Electrical Contractor's Name (if appropriate): _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

License number: _____

☒ Date of approval to install Facility granted by the Company: Nov 14 2012 Installation Date: Dec 2012

Application ID number: NZ604

Inspection:

☒ The system has been installed and inspected in compliance with the local Building/Electrical Code of

TOWN OF NEW BOSTON, NH.
(City/County)

Signed (Local Electrical Wiring Inspector, or attach signed electrical inspection): E. J. St

Name (printed): ED HUNTER

Date: 1/2/13

Customer Certification:

I hereby certify that, to the best of my knowledge, all the information contained in this Interconnection Notice is true and correct. This system has been installed and shall be operated in compliance with applicable electrical standards. Also, the initial start up test required by Puc 905.04 has been successfully completed.

Customer Signature: Abraham Fanning Date: 1/2/13