

NH Public Utilities Commission
REC Aggregator Portal

New Users [CLICK HERE](#) to setup your account for this form. Creating an account enables you to partially complete the form and return later to finish it or to make changes after the form is submitted. Be sure to create your account **BEFORE** entering information into the form, or the information will be lost.

Existing Users [CLICK HERE](#)

Basic Information

Who is submitting this request?

Aggregator

Aggregator Batch Number

KE022416

Are you registered in NH

- Yes
 No

Aggregator name

Knollwood Energy - 14625

NH Reg #

Aggregator Email

alane@knollwoodenergy.com

Other Aggregator name

Other aggregator email address

Facility Owner Name

Richard Murphy

Facility Owner email

rmurphy@sterilite.com

Owner Phone

603-642-6165

Facility Address

358 South Rd.

Facility Town/City

Brentwood

Facility State

NH

Facility Zip

03833

Is the facility address the same as the owner's mailing address

- Yes
 No

Mailing Address

Mailing Town/City

Mailing State

Mailing Zip

Primary Contact

Karen T

Primary Contact

Other Email Address

alane@knollwoodenergy.com

Facility Information

Class

II

Utility

Eversource

Other Utility Name

To obtain a GIS ID contact:

James Webb

408 517 2174

jwebb@apx.com

GIS ID (include "NON")

NON71380

Date of Initial Operation

07/23/2015

Facility Operator Name, if applicable

Panel Quantity

36

Panel Make

Solarworld

Panel Model

SW 275

Panel Rated Output

275

System capacity based on panels

9900

Inverter Quantity

36

Inverter Make

Enphase Energy

Add'l Inverter Quantity

NA

Additional Inverter Make

None

Rated Output - Primary Inverter

250

Rated Output - Additional Inverter

System capacity based on single inverter make

9000

System capacity based on two inverter types

System capacity in kW as stated on the interconnection agreement

Revenue Grade Meter Make

Enphase

Was this facility installed directly by the customer (no electrician involved)?

- Yes
 No

Electrician Name & Number

Craig Reekie12923M

Other Electrician Name & Number

Installation Company

RGS Energy

Other Installation Company Name

Other Inst. Company Address

Other Inst. Company City

Other Inst. Company State

Other Inst. Company Zip

Independent Monitor Name & Company

Other Monitor Name and Company

Is the installer also the equipment supplier?

- Yes
 No

Equipment Vendor

Please attach your completed interconnection agreement including Exhibit B.

The project described in this application will meet the metering requirements of PUC 2506 including:

Electricity generation in megawatt hours shall be reported to the GIS quarterly with a statement that the submission is accurate by the owner of the source, the independent monitor or a designated representative.

A revenue quality meter is used to measure the electricity generated.

The facility owner has certified to the independent monitor that the meter operates according to manufacturing standards.

The meter shall be maintained according to the manufacturer's recommendations.

The project is installed and operating in conformance with applicable building codes.

A copy of the facility's interconnection agreement is attached.

Please attach additional document here

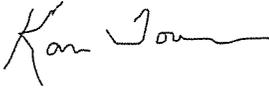
https://fs30.formsite.com/jan1947/files/f-5-168-6138764_xlc38Xi7_Richard_G._Murphy_contract_part_

Please attach additional document here

https://fs30.formsite.com/jan1947/files/f-5-173-6138764_ovz01Fuu_Murphy_SPIA2.pdf

Aggregator statement of accuracy

Sign your name using a mouse or, if you are using a touch-screen device, a stylus or other pointer.



Print Name

Karen Tonnesen

Date Signed

02/24/2016

New Hampshire PUC REC Certification Application Owner Statements

The information provided on this application for New Hampshire Renewable Energy Certificate eligibility is accurate to the best of my knowledge and I authorize Knollwood Energy to act on my behalf in filing said application.

The project described in this application will meet the metering requirements of PUC 2506 including:

Electricity generation in megawatt hours shall be reported to the GIS quarterly with a statement that the submission is accurate by the owner of the source, the independent monitor, or a designated representative.

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The meter shall be maintained according to the manufacturer's recommendations.

The project is installed and operating in conformance with applicable building codes.

A copy of the facility's interconnection agreement is attached.

Richard G. Murphy

Printed Name of signature owner

Richard G. Murphy

Richard G. Murphy (Feb 2, 2016)

Signature of system owner

RECEIVED

MAR 07 2015

Eversource Project ID

N 3454

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

SESD

Simplified Process Interconnection Application and Service Agreement

Date Prepared: 3/19/2015

Contact Information:

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

Customer or Company Name (print): Richard Murphy

Contact Person, if Company:

Mailing Address: 358 South Road

City: Brentwood State: NH Zip Code: 03833

Telephone (Daytime): 978-597-1178 (Evening): 603-642-6165

Facsimile Number: E-Mail Address: rmurphy@sterilite.com

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

Name: Alteris Renewables DBA RGS Energy

Mailing Address: 32 Taugwonk Spur A12

City: Stonington State: CT Zip Code: 06378

Telephone (Daytime): 860-535-9495 (Evening):

Facsimile Number: E-Mail Address: ecincentives@realgoods.com

Electrical Contractor Contact Information (if appropriate):

Name: Craig Reekie

Mailing Address: 32 Taugwonk Spur A12

City: Stonington State: CT Zip Code: 06378

Telephone (Daytime): 860-535-9495 (Evening):

Facsimile Number: E-Mail Address:

Facility Site Information:

Facility (Site) Address: 358 South Road

City: Brentwood State: NH Zip Code: 03833

Electric

Service Company: PSNH Account Number: 56411490006 ✓ Meter Number: W76859182 ✓

Non-Default Service Customers Only:

Competitive Electric

Energy Supply Company: Account Number:

(Customer's with a Competitive Energy Supply Company should verify the Terms & Conditions of their contract with their Energy Supply Company.)

Facility Machine Information:

Generator/

Inverter Manufacturer: Enphase Energy ✓ Model Name & Number: M250-60-2LL-S22 ✓ Quantity: 36 ✓

Nameplate Rating: .250 ✓ (kW) (kVA) 240 (AC Volts) Phase: Single Three

System Design Capacity: 9 AC ✓ (kW) (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

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA
Simplified Process Interconnection Application and Service Agreement

Inverter-based Generating Facilities:

UL 1741 / IEEE 1547.1 Compliant (Refer To Part Puc 906 Compliance Path For Inverter Units, Part Puc 906.01 Inverter Requirements)

✓ Yes No

The standard UL 1741.1 dated May, 2007 or later, "Inverters, Converters, and Controllers for Use in Independent Power Systems," addresses the electrical interconnection design of various forms of generating equipment. Many manufacturers choose to submit their equipment to a Nationally Recognized Testing Laboratory (NRTL) that verifies compliance with UL 1741.1. This term "Listed" is then marked on the equipment and supporting documentation. *Please include, any documentation provided by the inverter manufacturer describing the Inverter's UL 1741/IEEE 1547.1 listing.*

External Manual Disconnect Switch:

An External Manual Disconnect Switch shall be installed in accordance with 'Part Puc 905 Technical Requirements For Interconnections For Facilities, Puc 905.01 Requirements For Disconnect Switches and 905.02 Disconnect Switch.'

✓ Yes No

Location of External Manual Disconnect Switch: Interior wall next to MSP ✓

Project Estimated Install Date: 7/28/2015

Project Estimated In-Service Date: 7/28/2015

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: Richard W. Goff Title: Interconnecting Customer Date: 04-28-2015
Please include, a one-line and/or three-line drawing of proposed installation

For PSNH Use Only

Approval to Install Facility:

Installation of the Facility is approved contingent upon the Terms and Conditions For Simplified Process Interconnections of this Agreement, and agreement to any system modifications, if required.

Are system modifications required? Yes No To be Determined

Company Signature: Alfuhail Mofa Title: DR. ENGINEER Date: 5-14-15

PSNH Application Project ID#: _____

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

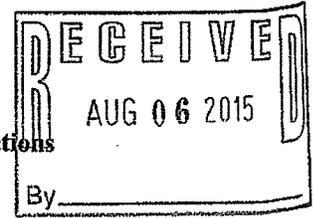
Terms and Conditions for Simplified Process Interconnections

Company waives inspection/Witness Test: Yes No

Date of inspection/Witness Test: _____

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).

Eversource
Interconnection Standards For Inverters Sized Up To 100 kVA
Exhibit B - Certificate of Completion for Simplified Process Interconnections



Installation Information: Check if owner-installed

Customer or Company Name (print): Richard Murphy

Contact Person, if Company: _____

Mailing Address: 358 South Road

City: Brentwood State: NH Zip Code: 03833

Telephone (Daytime): (978) 597-1178 (Evening): (603) 642-6165

Facsimile Number: N/A E-Mail Address: rmurphy@sterilite.com

Facility Information: → Eversource Meter # W76859182

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

City: _____ State: _____ Zip Code: _____

Electrical Contractor Contact Information:

Electrical Contractor's Name (if appropriate): Craig Reekie

Mailing Address: 32 Taugwonk Spur A12

City: Stonington State: CT Zip Code: 06378

Telephone (Daytime): (860) 535-9495 (Evening): same

Facsimile Number: N/A E-Mail Address: craig.reekie@rgsenergy.com

License number: 12923M

Date of approval to install Facility granted by the Company: May 14, 2015

Eversource Application ID number: #N 3454

Inspection:

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

City: Town of Brentwood County: Rockingham County

Signed (Local Electrical Wiring Inspector, or attach signed electrical inspection):

Signature: *Please see attached Inspection Card*

Name (printed): Kip Kaiser Date: 7/23/2015

Customer Certification:

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

Please remember to provide digital photos of the installation, including the AC disconnect switch (if required), the existing Eversource meter, the inverters, and the point of electrical interconnection.

Customer Signature: Richard Murphy 8/5/2015

As a condition of interconnection you are required to send/fax a copy of this form to:

Eversource
Distributed Generation
780 North Commercial Street
P. O. Box 330, Manchester, NH 03105-0330
Fax No.: (603) 634-2924

Town Of Brentwood NH

Certificate of Completion and Occupancy

Permit # 15047-15097E

Date 7/23/15

358 South Rd

224 005 000

Address

Map & Lot

This is to verify that the work relating to the permit has been completed. A visual inspection has been made and work deemed to meet code requirements.

This is not a warranty of individual workmanship.

Kip Kaiser

Building Inspector

Jonathan True

Fire Inspector

NEW HAMPSHIRE ELECTRIC CO-OP
"ABOVE THE CAP"

INTERCONNECTION APPLICATION-RENEWABLE GENERATION UP TO 1000 KW

PURSUANT TO NEW HAMPSHIRE ELECTRIC COOPERATIVE TERMS & CONDITIONS, SECTION X.
NET METERING, APPLICANT HEREBY GIVES NOTICE OF INTENT TO INSTALL AND OPERATE A
GENERATING FACILITY.

Applicant Information

Name: Elizabeth Murphy

Mailing Address: 53 Mt Delight Rd

City: Deerfield

State: NH

Zip Code: 03037

Facility Location (if different from above):

Daytime Phone Number: (603) 463-5945

Distribution Utility: NHEC

Account Number:

Electricity Supplier (ES):

Account Number:

Generating Facility Information

Generator Type (check one): Solar Wind Hydro

Generator Manufacturer; Model Name & Number: SunEdison F270, 19

Number of Phases of Unit: Single Three Other

Generation output rating in AC & DC Kilowatts: 4.08 kW (AC) & 5.13 kW (DC)

Inverter Manufacturer; Model Name & Number: Enphase m215, 19

Battery backup? Yes No

Will a generator Disconnect Switch accessible to the utility be installed? Yes No

Proposed location of Disconnect Switch, if applicable: Next to the meter

Installation Information & Certification

Installer: Granite State Solar

Check if owner-installed

Installation Date: TBD

Installing Electrician: Granite State Solar

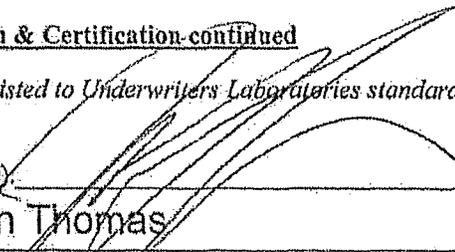
State of NH License #: 0366 C

Mailing Address: 197 N Main St, Boscawen, NH 03303

Daytime Phone Number: (603) 369-4318

Installation Information & Certification continued

The system hardware is listed to Underwriters Laboratories standards to be in compliance with UL1741 and IEEE 929-2000:

Signed (Vendor/Supplier): 

Name (Printed): Justin Thomas Date: 9/25/15

Company: Granite State Solar

Company Address: 197 N Main St, Boscawen, NH 03303

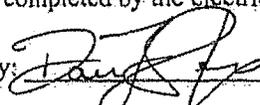
The system has been installed in compliance with local Building/Electrical Code of City/County: Sunfield

Signed (Electrician or Town Inspector): Richard W Pelletier

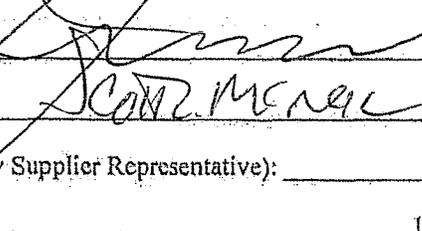
Print Name: _____ Date: 2/1/16

**In lieu of signature by inspector, a copy of final inspection certificate may be attached.*

The initial start-up test required by Section X.2.7 has been successfully completed by the electrician.

Completed on: 2/1/16 Witnessed By: 

Utility signature to signify only receipt of this form, in compliance with the NHEC's Terms & Conditions.

Signed (NHEC): 

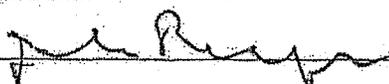
Print Name: SCOTT MENARD Date: 2.5.16

Signed (Electricity Supplier Representative): _____

Date: _____ Interconnection Date: 2.5.16

Applicant agrees to install and operate the system in accordance with NHEC's Terms & Conditions.

I hereby certify that, to the best of my knowledge, all of the information provided in this Application is true and correct.

Signature of Applicant:  Date: 9/29/2015

THE ELIGIBLE CUSTOMER-GENERATOR SHALL PROVIDE NEW HAMPSHIRE ELECTRIC CO-OP WITH A WRITTEN UPDATE OF THE INFORMATION ON THIS FORM AS ANY CHANGES OCCUR.