



REC 16-211

Knollwood Energy of MA LLC  
P.O. Box 30  
Chester, New Jersey 07930

January 22, 2016

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

NHPUC 26 JAN 16 AM 11:55

Dear Ms Howland,

Enclosed please find applications for 12 systems to be part of the Knollwood Energy of MA LLC (NH-II-13-089) Class II Photovoltaic aggregation for New Hampshire Renewable Energy Certificates (RECs) generated from customer-sited sources, pursuant to New Hampshire Code of Administrative Rules Puc 2506.

Also enclosed are the Simplified Process Interconnection Application and Service Agreement, and the Certificate of Completion.

Electronic versions have been entered into the new online application system under batch number KN16009.

Barrington Power DUUF	Johanna Publow
Resource Management/Marty Riehs	Bill Radzelovage
Sean Carter	Malcom Sandberg
Mike Conroy	Theresa Tarsa
Tom Noonan/Judy Stewart	Jamie Troon
Craig Putnam	Richard Vass

Please feel free to contact me with any questions or further instructions.  
Thank you for your consideration,

Linda Modica  
New England REC Operations Manager  
**Knollwood Energy of MA LLC**  
973.879.7826  
[linda@knollwoodenergy.com](mailto:linda@knollwoodenergy.com)

NH Public Utilities Commission

REC Aggregator Portal

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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

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Who is submitting this request?

Aggregator

Aggregator Batch Number

KN16010

Aggregator name

Knollwood Energy

Aggregator Email

linda@knollwoodenergy.com

Other Aggregator name

Other aggregator email address

Facility Owner Name

Malcolm Sandberg

Facility Owner email

mal.sandberg@comcast.net

Owner Phone

603-868-2350

Facility Address

15 Langley Rd

Facility Town/City

Durham

Facility State

NH

Facility Zip

03824

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 (who should we call with questions)

Linda Modica

Contact Phone

Other Email Address

Facility Information

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Class

II

Utility

PSNH

Other Utility Name

To obtain a GIS ID contact:

James Webb

408 517 2174

jwebb@apx.com

GIS ID (include "NON")

NON62368

Date of Initial Operation

07/15/2014

Facility Operator Name, if applicable

Panel Quantity

24

Panel Make

Suniva Optimus

Panel Model

260

Panel Rated Output

260

System capacity based on panels

0.0624

Inverter Quantity

1

Inverter Make

Sunnyboy

Add'l Inverter Quantity

NA

Additional Inverter Make

None

Add'l Inverter Model

Rated Output - Primary Inverter

Rated Output - Additional Inverter

System capacity based on single inverter make

System capacity based on two inverter types

System capacity in mW as stated on the interconnection agreement

Revenue Grade Meter Make

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

- Yes
- No

Electrician Name & Number

Other Electrician Name & Number

Installation Company

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-5-168-5945689\\_PrhUk0Hr\\_Sandberg\\_COC.pdf](https://fs30.formsite.com/jan1947/files/f-5-168-5945689_PrhUk0Hr_Sandberg_COC.pdf)

Please attach additional document here

[https://fs30.formsite.com/jan1947/files/f-5-173-5945689\\_HbKHnVAR\\_Sandberg\\_NHOS.pdf](https://fs30.formsite.com/jan1947/files/f-5-173-5945689_HbKHnVAR_Sandberg_NHOS.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

Linda Modica

Date Signed

01/22/2016

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

RECEIVED  
MAY 06 2014  
SESD

PSNH Application Project ID#: N2952

**Contact Information:**

Legal Name and Address of Interconnecting Customer (or, Company name, if appropriate)  
Customer or Company Name (print): Malcolm Sandberg  
Contact Person, if Company: \_\_\_\_\_  
Mailing Address: 15 Langley Rd  
City: Durham State: NH Zip Code: 03824  
Telephone (Daytime): 603-868-2350 (Evening): \_\_\_\_\_  
Facsimile Number: \_\_\_\_\_ E-Mail Address: Mal.sandberg@comcast.net

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

Name: ReVision Energy, LLC contact Heather Fournier  
Mailing Address: 7 Commercial Drive  
City: Exeter State: NH Zip Code: 03833  
Telephone (Daytime): 603-679-1777 (Evening): \_\_\_\_\_  
Facsimile Number: \_\_\_\_\_ E-Mail Address: heather@revisionenergy.com

**Electrical Contractor Contact Information** (if appropriate):

Name: Same as Alternative Contact  
Mailing Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_  
Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

**Facility Site Information:**

Facility (Site) Address: 15 Langley Rd  
City: Durham State: NH Zip Code: 03824  
Electric  
Service Company: PSNH Account Number: 56607801057 (Sandberg) ✓ Meter Number: G49337806 ✓

Account and Meter Number: Please consult an actual PSNH electric bill and enter the correct Account Number and Meter Number on this application. If the facility is to be installed in a new location, please provide the PSNH Work Request number.

PSNH Work Request # \_\_\_\_\_

**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.)

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

Simplified Process Interconnection Application and Service Agreement

Facility Machine Information:

Generator/ Inverter Manufacturer: SMA ✓ Model Name & Number: Sunny Boy 6000 US ✓ Quantity: 1 ✓  
Nameplate Rating: 6 (kW) (kVA) 240 (AC Volts) Phase: Single  Three   
Nameplate Rating: The AC Nameplate rating of the individual inverter.  
✓ System Design Capacity: 6 (kW) (kVA) Battery Backup: Yes  No   
System Design Capacity: The system total of the inverter AC ratings. If there are multiple inverters installed in the system, this is the sum of the AC nameplate ratings of all inverters.  
✓ 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 \_\_\_\_\_

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 With 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: on Tracking array pole

Project Estimated Install Date: May 2014 Project Estimated In-Service Date: June 2014

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: [Signature] Title: OWNER Date: 5/1/14

**Please include a one-line and/or three-line diagram of proposed installation. Diagram must indicate the generator connection point in relation to the customer service panel and the PSNH meter socket. Applications without such a diagram may be returned.**

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: [Signature] Title: SR. ENGINEER Date: 5.9.14

Public Service Company Of New Hampshire  
Interconnection Standards For Inverters Sized Up To 100 kVA  
Exhibit B - Certificate of Completion for Simplified Process Interconnections

RECEIVED

JUL 15 2014

SESD

Installation Information:

Check if owner-installed

Customer or Company Name (print) Walter Lucy Sandberg

Contact Person, if Company: \_\_\_\_\_

Mailing Address: 15 Langley Rd.

City: Durham State: NH Zip Code: 03824

Telephone (Daytime): 603-868-2356 (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: wal.sandberg@comcast.net

Facility Information:

Address of Facility (if different from above): \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Electrical Contractor Contact Information:

Electrical Contractor's Name (if appropriate): Aviation Energy, dba Heather Forester

Mailing Address: 7 Commercial Drive

City: Durham State: NH Zip Code: 03823

Telephone (Daytime): 603-678-1777 (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: heather@aviationenergy.com

License Number: 13139A1

Date of approval to install Facility granted by the Company: 5/12/2014

PSNH Application ID number: NX 2952

Inspection:

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

City: Durham County: Stratford

Signed (as Electrical Wiring Inspector, or Agent signed electrical inspection):

Signature: Ron Tasker

Name (printed): Ron Tasker Date: 7-15-14

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 Pac. 963.04 has been successfully completed.

Customer Signature: Walter Lucy Sandberg

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

Public Service Company of New Hampshire  
Supplemental Energy Services Department  
280 North Commercial Street  
P. O. Box 300 Manchester, NH 03105-0300  
Fax No. (603) 663-2449

## 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.

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.

Malcolm W. Sandberg

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Printed Name of signature owner

MALCOLM W. SANDBERG

MALCOLM W. SANDBERG (Jan 4, 2016)

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Signature of system owner