



DE 14-207

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

NHPUC 31JUL'14PM12:42

July 29, 2014

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

Dear Ms Howland,

Enclosed please find the application for the Greg Sowa system 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.

Customer and Facility Information

Greg Sowa
150 Orange St.
Manchester, NH 03104
603-685-4229
sowa.greg@gmail.com

The Nepool GIS ID # for this facility is: NON42120. Also enclosed are the Simplified Process Interconnection Application and Service Agreement and the Certificate of Completion for Simplified Process Interconnections. An electronic version has been sent to executive.director@puc.nh.gov.

Please do not hesitate to contact me if you have any questions regarding this application.

Thank you for your consideration,

Alane Lakritz

Alane Lakritz
President
Knollwood Energy of MA LLC
862-432-0259
908-955-0593 (fax)
Alane@KnollwoodEnergy.com

Enclosures (3)



State of New Hampshire Public Utilities Commission



21 S. Fruit Street, Suite 10, Concord, NH 03301-24

DRAFT APPLICATION FORM FOR RENEWABLE ENERGY CERTIFICATE (REC) 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.

• **Photovoltaic (PV) solar facilities are Class II resources. Contact Barbara.Bernstein@puc.nh.gov for assistance.**

Eligibility Requested **Class** **Check here X if this facility part of an**
for: **Class I** **II** **x** **aggregation.**

If the facility is part of an aggregation, please list the aggregator's name.

Knollwood Energy of MA

• **Provide the following information for the owner of the PV system.**

Applicant
 Name Greg Sowa Email sowagreg@gmail.com
 Address 166 Sagamore St. City Manchester State NH Zip 03104
 Telephone
 e 603-685-4229 Cell _____

***For business applicants, provide the facility name and contact information (if different than applicant contact information).**

Facility Name _____ Primary Contact Greg Sowa
 Address 150 Orange St. City Manchester State NH Zip 03104
 Telephone _____ Cell _____
 Email address: _____

***Provide a complete list of the equipment used at the facility, including the revenue grade REC meter, and, if applicable, the inverter. Your facility will not qualify for RECs without a REC meter.**

equipment	quantity	Type	equipment	quantity	Type
PV panels	28	Solar World SI 305	other		
Inverter	28	Enphase M250	other		
meter	1	GE I-210	other		

***A copy of the interconnection agreement and the approval to operate your PV system from your electric utility must be included with your application.**

***For PSNH customers, both the Simplified Process Interconnection Application and Exhibit B - Certificate of Completion are required.**

What is the nameplate capacity of your facility (found on your interconnection 6.5 agreement)?

What was the initial date of operation (the date your utility approved the facility)? 7/3/14

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

Installer Name Bright Light Solar Contact Vlad Hromis License # (if applicable) _____
 Address 96 Hilliard Road City Chichester State: NH Zip 03258
 Telephone 603-961-0045 email fuat.ari@bllsus.com

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

***Provide the name and contact information of the equipment vendor.**

X Check here if the installer provided the equipment and proceed to the next question.

Business Name _____ Contact _____

Address _____ City _____ State _____ Zip _____

Telephone _____ email _____

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

Electrician's

Name _____ License # _____

Business Name _____ Email _____

Address _____ City _____ State _____ Zip _____

***Provide the name of the independent monitor for this facility. (A list of approved independent monitors is available at http://www.puc.nh.gov/Sustainable%20Energy/Renewable_Energy_Source_Eligibility.htm.)**

Independent Monitor's Name Paul Button, Energy Audits Unlimited

Is the facility certified under another state's renewable portfolio standard? yes nox

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

*** Please note, if your facility is part of an aggregation, your aggregator should provide you with the following information.**

*** 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

If you are not part of an aggregation, Mr. Webb will assist you in obtaining a GIS facility code.

GIS Facility Code # NON42120 **Asset ID #** NON42120

*Complete an affidavit by the applicant or qualified installer that the project is installed and operating in conformance with any applicable state/local building codes. Use either the following affidavit form or provide a separate document.

*The Commission requires a notarized affidavit as part of the application.

AFFIDAVIT

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 Alane Lakritz Date 7/29/14

Applicant's Printed Name Alane Lakritz

Subscribed and sworn before me this 29 Day of JULY (month) in the year 2014

County of MORRIS State of NJ

Sylvia A. Smith
Notary Public/Justice of the Peace

My Commission Expires _____

SYLVIA A. SMITH
Notary Public
State of New Jersey
My Commission Expires Jan. 6, 2019
I.D.# 2309220

*Complete the following checklist. If you have questions, contact barbara.bernstein@puc.nh.gov.

CHECK LIST: The following has been included to complete the application:	YES
* All contact information has been provided.	X
* A copy of the interconnection agreement. PSNH Customers should include both the Interconnection Standards for Inverters Sized up to 100 KVA and Exhibit B - Certification of Completion for Simplified Process Interconnection.	X
* Documentation of the distribution utility's approval of the installation.*	X
* If the facility is participating in another state's renewable portfolio standard (RPS) program, documentation of certification in other state's RPS.	

• A signed and notarized attestation.	X
• A GIS number obtained from the GIS Administrator.	X
• The document has been printed and notarized.	X
• The original and 2 copies are included in the packet mailed to Debra Howland, Executive Director of the PUC.	X
• An electronic version of the completed application has been sent to executive.director@puc.nh.gov .	X
*Usually included in the interconnection agreement.	

***If the application has been prepared by someone other than the applicant, complete the following. If the application was prepared by the applicant, check here and skip this section.**

PREPARER'S INFORMATION

Preparer's Name Amy Molinaro Email address: amy@knollwoodenergy.com
 Address PO Box 30 City Chester State NJ Zip 07930
 Telephone 862-432-5908 Cell _____
 Preparer's Signature: 

PSNH Project
ID# N2951

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

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Simplified Process Interconnection Application and Service Agreement

Date Prepared: 9/30/13

Contact Information:

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

Customer or Company Name (print): GREGORY SOWA

Contact Person, if Company: same as above

Mailing Address: 150 Orange St. 166 Sagamore St.

City: MANCHESTER State: NH Zip Code: 03104

Telephone (Daytime): 603-685-4229 (Evening): _____

Facsimile Number: _____ E-Mail Address: sowa.greg@gmail.com

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

Name: Bright Light Solar

Mailing Address: 96 Hilliard Rd

City: CHICHESTER State: NH Zip Code: 03258

Telephone (Daytime): 603-961-0045 (Evening): _____

Facsimile Number: _____ E-Mail Address: puatarig@blsus.com

Electrical Contractor Contact Information (if appropriate):

Name: LENN JOHNSON

Mailing Address: 454 Mical Road

City: Pembroke State: NH Zip Code: 03275

Telephone (Daytime): 603-496-3990 (Evening): _____

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

Facility Site Information:

Facility (Site) Address: 150 ORANGE STR.

City: MANCHESTER State: NH NH Zip Code: 03104

Electric

Service Company: PSNH Account Number: 56-892246059 Meter Number: 663277798

Non-Default Service Customers Only:

Competitive Electric Client is asking PSNH to consolidate his meters to one meter.

Energy Supply Company: 663277798 Account Number: 56892246059

(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/ SOLAR WOULD Model Name & SL305

Inverter Manufacturer: ENPHASE ✓ Number: M250 ✓ Quantity: 2.6 ✓

Nameplate Rating: _____ (kW) _____ (kVA) _____ (AC Volts) Phase: Single Three

System Design Capacity: 7930 (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 _____

0.5 kW
AC

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

PLEASE CONFIRM EXTERNAL DISCONNECT SWITCH.

Location of External Manual Disconnect Switch: _____

Project Estimated Install Date: Oct. 20th 2013 Project Estimated In-Service Date: 10/20/13

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: 9/30/13

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: Michael Motta Title: SR. ENGINEER Date: 5.9.14

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

PSNH waives inspection/Witness Test: Yes No Date of inspection/Witness Test: _____ Witness Test Waived

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).

RECEIVED

JUL 08 2014

Public Service Company Of New Hampshire
Interconnection Standards For Inverters Sized Up To 100 kVA

SESD

Exhibit B - Certificate of Completion for Simplified Process Interconnections

Installation Information:

Check if owner-installed

Customer or Company Name (print): GREG SOWA

Contact Person, if Company: _____

Mailing Address: 150 ORANGE ST.

City: MANCHESTER State: NH Zip Code: 03104

Telephone (Daytime): 685-4229 (Evening): _____

Facsimile Number: _____ E-Mail Address: SOWA.GREG@gmail.com

Facility Information:

Address of Facility (if different from above): _____

City: _____ State: _____ Zip Code: _____

Electrical Contractor Contact Information:

Electrical Contractor's Name (if appropriate): _____

Mailing Address: Len Johnson Electric

City: _____ State: 454 Micol Road Zip Code: _____

Telephone (Daytime): _____ (Evening): Pembroke, NH 03276

Facsimile Number: _____ E-Mail Address: (603) 496-3990

License number: _____ E-Mail Address: lenjstang@comcast.net

Date of approval to install Facility granted by the Company: _____

PSNH Application ID number: #N _____

Inspection:

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

City: MANCHESTER N.H. County: _____

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

Signature: Richard Gaultbert

Name (printed): Richard Gaultbert Date: 3 July 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 Puc. 905.04 has been successfully completed.

Customer Signature: _____

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

Public Service Company of New Hampshire
Supplemental Energy Sources Department
780 North Commercial Street
P. O. Box 330, Manchester, NH 03105-0330
Fax No. (603) 634-2449