

**KNOLLWOOD ENERGY**

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

September 23, 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 **Roger Saunders** 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

**Roger Saunders**

**92 Van Dyke Rd.**

**Hollis, NH 03049**

**603-465-2613**

**[roger-saunders@hotmail.com](mailto:roger-saunders@hotmail.com)**

The Nepool GIS ID # for this facility is: **NON43090**. 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](mailto: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](mailto:Alane@KnollwoodEnergy.com)**

Enclosures (3)



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	9	Solarworld Sunmodule Plus 275 watt MONO version 2.5	other		
Inverter	9	Enphase Energy M250-60-2LL-S22 Micro Inverter	other		
meter	1	Enphase Energy ENV-120-01	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 agreement)? 2.50

What was the initial date of operation (the date your utility approved the facility)? 6/1/2014

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

Installer Name \_\_\_\_\_ Contact \_\_\_\_\_ License # (if applicable) \_\_\_\_\_  
Address \_\_\_\_\_ City \_\_\_\_\_ State: \_\_\_\_\_ Zip \_\_\_\_\_  
Telephone \_\_\_\_\_ email \_\_\_\_\_

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 Alain Biron License # NH Lin. 1895

Business Name Alain Biron Electric Email bironelec@aol.com

Address 39 Olde Mill Brook Rd. City Dunbarton State NH Zip 01359

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](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      no~~x~~

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](mailto: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 #**    NON43090                      **Asset ID #**    NON43090

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 9/24/14.

Applicant's Printed Name Alane Lakritz

Subscribed and sworn before me this 24 Day of September (month) in the year 2014

County of Morris State of New Jersey



Barbara Burghard  
Notary Public/Justice of the Peace

My Commission Expires 2/16/17

Complete the following checklist. If you have questions, contact [barbara.bernstein@puc.nh.gov](mailto: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 <b>and</b> 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 PIIC	X

<ul style="list-style-type: none"><li>An electronic version of the completed application has been sent to <a href="mailto:executive.director@puc.nh.gov">executive.director@puc.nh.gov</a> .</li></ul>	X
<b>*Usually included in the interconnection agreement.</b>	

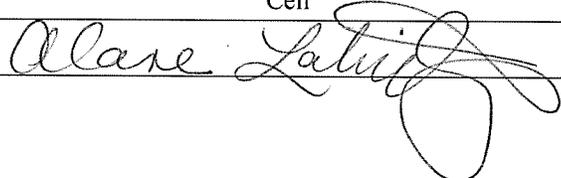
If the application has been prepared by someone other than the applicant, complete the following. If the application was prepared by the applicant, check here and skip this section.

**PREPARER'S INFORMATION**

Preparer's Name Alane Lakritz Email address: alane@knollwoodenergy.com

Address PO Box 30 City Chester State NJ Zip 07930

Telephone 862-432-0590 Cell \_\_\_\_\_

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

RECEIVED  
MAY 02 2014  
SESD

PSNH Application Project ID#: \_\_\_\_\_

**Contact Information:**

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

Customer or Company Name (print): Roger Saunders

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

Mailing Address: PO Box 31

City: Hollis State: NH Zip Code: 03049

Telephone (Daytime): 603-465-2613 (Evening): 465-2613

Facsimile Number: 465-2613 E-Mail Address: roger-saunders@hotmail.com

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

Name: NA

Mailing Address: \_\_\_\_\_

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

Telephone (Daytime): \_\_\_\_\_ (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: \_\_\_\_\_

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

Name: Alain Biron Electric NH Lic. # 1895

Mailing Address: 39 Olde Mill Brook Rd.

City: Dunbarton State: NH Zip Code: 03046-4405

Telephone (Daytime): 703-7896 (Evening): 774-7393

Facsimile Number: \_\_\_\_\_ E-Mail Address: Bironelec@aol.com

**Facility Site Information:**

Facility (Site) Address: 92 Van Dyke Rd. ✓

City: Hollis State: NH Zip Code: 03049

Electric \_\_\_\_\_

Service Company: PSNH Account Number: 56764190021 Meter Number: \*D87030348 W41415889 ✓

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.)

\* This Meter Is Going To Be Disconnected  
At The Breaker Panel And The HW Feed Connected To A Breaker  
On The New Breaker Panel I Am Having Installed To Provide  
Space For The PV Input,

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: Solarworld Sunmodule Model Name & ✓  
Inverter Manufacturer: Enphase ✓ Number: M250 Microinverter Quantity: 9 ✓  
Nameplate Rating: 250 (kW) (kVA) 240/208 (AC Volts) Phase: Single  Three   
Nameplate Rating: *The AC Nameplate rating of the individual inverter.* ✓  
System Design Capacity: 2,250 (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.*  
We will have 9 edy Enphase M250-60-2LL Microinverters, (1 Per PV t.

**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 The Shed With The Solar Panels

Project Estimated Install Date: 7 May 2014 Project Estimated In-Service Date: 17 May 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: 21 April

*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: 5.5.14

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. Such Approval relates only to the PSNH and Puc 900 electrical interconnection requirements, and does not convey any permissions or rights associated with permits, code enforcement, easements, rights of way, set back, or other physical construction issues.
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  
JUN 03 2014  
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**Exhibit B - Certificate of Completion for Simplified Process Interconnections**

Installation Information:

Check if owner-installed

Customer or Company Name (print): Roger Saunders  
Contact Person, if Company: \_\_\_\_\_  
Mailing Address: PO Box 31  
City: Hollis State: NH Zip Code: 03049  
Telephone (Daytime): 603-465-2613 (Evening): 603-465-2613  
Facsimile Number: \_\_\_\_\_ E-Mail Address: roger-saunders@hotmail.com

Address of Facility (if different from above): 92 Van Dyke Rd.  
City: Hollis State: NH Zip Code: 03049  
Generation Vendor: N/A Contact Person: \_\_\_\_\_

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

Vendor Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Electrical Contractor's Name (if appropriate): Alain Biron  
Mailing Address: 39 Olde Mill Brook Rd.  
City: Dunbarton State: NH Zip Code: 03046-4405  
Telephone (Daytime): 703-7896 (Evening): 774-7393  
Facsimile Number: \_\_\_\_\_ E-Mail Address: Bironelec@aol.com  
License number: 1895

Date of approval to install Facility granted by the Company: 5/5/14 Installation Date: \_\_\_\_\_

Application ID number: N 2950

Inspection:

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

Hollis, Hillsboro  
(City/County)

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

Name (printed): David J Gagnon

Date: 6/2/14

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: [Signature] Date: 6/2/14



**#N2950 Saunders PV (Hollis) - Certificate of Completion Processed**

From: Katherine M. Roberge <SUPL ENRGY SRCS > <634-2691 >

06/05/2014 03:14 PM

To: roger-saunders

Cc: Michael D. Motta, Richard C. Labrecque

Dear Mr. Saunders:

We have processed the Exhibit B - Certificate of Completion for project # N2950 Saunders PV (Hollis) located at 92 Van Dyke Road, Hollis, NH.

The Certificate of Completion has been reviewed and processed. Enrollment into the Net Metering program is complete and you may interconnect your project to the PSNH electrical distribution system in accordance with the *New Hampshire Code of Administrative Rules Chapter Puc 900 Net Metering For Customer-Owned Renewable Energy Generation Resources of 1000 Kilowatts or Less*, and the *Terms and Conditions for Simplified Process Interconnections*. Attached for your records is a copy of the "Certificate of Completion" and the "Simplified Process Interconnection Application and Service Agreement."



N2950 Saunders PV - Certificate of Completion.pdfN2950 Saunders PV - Processed Application.pdf

Please contact Michael D. Motta , Supplemental Energy Sources. at Michael.Motta@nu.com or by calling (603) 634-2920 should you have any questions or require additional information.