



REC 15-101

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

NHPUC 23MAR'15 1:47

March 19, 2015

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 Robert Grogan 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

Robert Grogan  
46 Powder Hill Rd  
Bedford, NH 03110  
603.579.2251  
robgrogan@comcast.net

The Nepool GIS ID # for this facility is: NON47021. 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,

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

Enclosures (3)



State of New Hampshire  
 Public Utilities Commission  
 21 S. Fruit Street, Suite 10, Concord, NH 03301-2429



**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](mailto: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](mailto:Barbara.Bernstein@puc.nh.gov).

- Photovoltaic (PV) solar facilities are Class II resources. Contact [Barbara.Bernstein@puc.nh.gov](mailto:Barbara.Bernstein@puc.nh.gov) for assistance.

Eligibility Requested for: Class I  Class II  Check here  if this facility part of an 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. (mailing address)

Applicant Name Robert Grogan Email [robgrogan@icloud.com](mailto:robgrogan@icloud.com)  
 Address 46 Powder Hill Rd City Bedford State NH Zip 03110  
 Telephone 603.722.8624 Cell \_\_\_\_\_

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

Facility Name \_\_\_\_\_ Primary Contact \_\_\_\_\_  
 Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
 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	18	LG LGE 265W	other		
Inverter	18	Enphase M215	other		
meter	1	Itron C1S CL200	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)? 3.87 AC

What was the initial date of operation (the date your utility approved the facility)? 12/17/13

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

Installer Name KRD Builders Contact Ken Dionne License # (if applicable) \_\_\_\_\_  
 Address 106 Chestnut Hill Rd City Amherst State: NH Zip 03031  
 Telephone 603.714.4001 email krdbuilder@aol.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 Alain Biron License # NH1895

Business Name Biron Electric Email bironelec@aol.com

Address 39 Olde Mill Brook Rd City Dunbarton State NH Zip 03046

- **Provide the name of the independent monitor for this facility.** (A [list](http://www.puc.nh.gov/Sustainable%20Energy/Renewable_Energy_Source_Eligibility.htm) 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

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 # NON47021                      Asset ID # NON47021

- **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. (please see attached)

Applicant's Signature \_\_\_\_\_ Date \_\_\_\_\_

Applicant's Printed Name Linda Modica

Subscribed and sworn before me this \_\_\_\_\_ Day of \_\_\_\_\_ (month) in the year \_\_\_\_\_

County of \_\_\_\_\_ State of \_\_\_\_\_

\_\_\_\_\_  
Notary Public/Justice of the Peace

My Commission Expires \_\_\_\_\_

- 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 <i>the Interconnection Standards for Inverters Sized up to 100 KVA</i> <b>and</b> <i>Exhibit B – Certification of Completion for Simplified Process Interconnection</i> .	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 <a href="mailto:executive.director@puc.nh.gov">executive.director@puc.nh.gov</a> .	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.

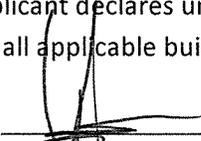
**PREPARER'S INFORMATION**

Preparer's Name Linda Modica Email address: [linda@knollwoodenergy.com](mailto:linda@knollwoodenergy.com)  
Address PO Box 30 City Chester State NJ Zip 07930  
Telephone 973.879.7826 Cell \_\_\_\_\_  
Preparer's Signature: 

- 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  Date 3/19/15

Applicant's Printed Name Linda Modica

Subscribed and sworn before me this 19 Day of March (month) in the year 2015

County of Morris State of New Jersey

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

  
Notary Public/Justice of the Peace

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

Simplified Process Interconnection Application and Service Agreement

Date Prepared: 11/22/2013

**Contact Information:**

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

Customer or Company Name (print): ROBERT GROGAN

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

Mailing Address: 46 POWDER HILL RD

City: BEDFORD State: NH Zip Code: 03110

Telephone (Daytime): 603-488-5250 (Evening): 617-306-1546

Facsimile Number: 603-579-2251 E-Mail Address: ROB.GROGAN@COMCAST.NET

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

Name: KEN DIONNE / KRDBUILDERS

Mailing Address: 106 CHESTNUT HILL RD

City: AMHERST State: NH Zip Code: 03031

Telephone (Daytime): 603 714 4001 (Evening): 603 673 2936

Facsimile Number: 603 673 2936 E-Mail Address: KRDBUILDER@AOL.COM

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

Name: ALAIN BIRON / BIRON ELECTRIC

Mailing Address: 39 OLDE MILL BROOK RD

City: DUNBAR State: NH Zip Code: \_\_\_\_\_

Telephone (Daytime): 603 774 7393 (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: BIRONELEC@AOL.COM

**Facility Site Information:**

Facility (Site) Address: 46 POWDER HILL RD

City: BEDFORD State: NH Zip Code: 03110

Electric Service Company: PSNH Account Number: 56942945082 Meter Number: 526570895

**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/ SOLAR PV Model Name & \_\_\_\_\_

Inverter Manufacturer: ENPHASE Number: M215 Quantity: 18

Nameplate Rating: 215 (kW) \_\_\_\_\_ (kVA) 240 (AC Volts) Phase: Single  Three

System Design Capacity: 42035 (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 \_\_\_\_\_

3.87 kW

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: Front of house by mechanical door by service meter PSNH  
12/24-12/15

Project Estimated Install Date: 11/25-11/26 2013 Project Estimated In-Service Date: 12/26/2013

**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: \_\_\_\_\_ Date: 11/22/2013  
*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: [Signature] Title: Sr. Engineer Date: 12-4-13

PSNH Application Project ID#: N2835

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).

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

**Exhibit B - Certificate of Completion for Simplified Process Interconnections**

Installation Information:

Check if owner-installed

Customer or Company Name (print): ROBERT GROGAN

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

Mailing Address: 46 POWDER HILL RD

City: BEDFORD State: NH Zip Code: 03110

Telephone (Daytime): 603 499-5250 (Evening): 617 366-1546

Facsimile Number: 603 579 2251 E-Mail Address: ROB.GROGAN@COMCAST.NET

Address of Facility (if different from above): SAM

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): Alvin Biron Electric

Mailing Address: 39 OLDE MILL BROOK RD

City: DUNBARTON State: NH Zip Code: 03031

Telephone (Daytime): 603-774-7393 (Evening): \_\_\_\_\_

Facsimile Number: \_\_\_\_\_ E-Mail Address: BIRON.ELEC@AOL.COM

License number: NH1895

Date of approval to install Facility granted by the Company: 12/4/2013 Installation Date: 12/5-2013-12/12/2013

Application ID number: N2835

Inspection:

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

BEDFORD/HILLSBOROUGH  
(City/County)

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

Name (printed): WAYNE MOORE

Date: 12-17-13

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: Robert Grogan Date: 12/17/2013