



80A ELM ST.
LANCASTER, NH

NHPUC 27FEB'14AM11:00 03584

2.25.14

Debra A Howland,
Executive Director
NH Public Utility Commission
21 South Fruit St., Suite 10
Concord, NH 03301-2429

Reference Renewable Energy Certification Class II Application--100 KWH or Less

Dear Ms Howland

Attached to this cover page is our Draft Application for Class II REC,s for our new 45 kw solar array.

Facility Name:	Weston Dam Solar
Asset ID	NON39169
Location	Groveton, NH
Applicant	PowerHouse Systems, Inc 80a Elm Street Lancaster, NH 03584
Contact	Gregory Cloutier 603.443.7610

If you have any questions don't hesitate to call me at the above number.

Gregory Cloutier

Attachments: Draft Applications (3)
Supporting Documents





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.
- 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 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. Andrew Lock

- Provide the following information for the owner of the PV system.

Applicant Name PowerHouse Systems, Inc Email Cloutier@ncia.net
 Address 80a Elm Street City Lancaster State NH Zip 03584
 Telephone 603.788.9892 Cell 603.443.7610

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

Facility Name Weston Dam Solar Primary Contact Gregory Cloutier
 Address 80a Elm Street City Lancaster State NH Zip 03584
 Telephone 603.788.9892 Cell 603.443.7610
 Email address: Cloutier@ncia.net

- 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	14	PVSW270 Solar World, Grid Tie System	other		
Inverter	1	Fronius CL44 kw	other		
meter	1	Netmetering	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)? 45 kw
 What was the initial date of operation (the date your utility approved the facility)? 12/27/13

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

Installer Name Smart Energy Contact David Belanger License # (if applicable) _____
 Address PO Box 56 City Colebrook State: NH Zip 03584
 Telephone 800.608.5840 email david@smartenergyne.com

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

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

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

Business Name Smart Energy Contact _____
 Address _____ City _____ State _____ Zip _____
 Telephone _____ email _____

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

Electrician's Name Rodney Smith License # 1077m
 Business Name S & S Electric Email _____
 Address 241 US Route 3 City Stewartstown State NH Zip 03584

- 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.	✓
• A copy of the interconnection agreement. PSNH Customers should include both <i>the Interconnection Standards for Inverters Sized up to 100 KVA</i> and <i>Exhibit B – Certification of Completion for Simplified Process Interconnection</i> .	✓
• Documentation of the distribution utility's approval of the installation.*	✓
• If the facility is participating in another state's renewable portfolio standard (RPS) program, documentation of certification in other state's RPS.	N/A
• A signed and notarized attestation.	?
• A GIS number obtained from the GIS Administrator.	✓
• The document has been printed and notarized.	✓
• The original and 2 copies are included in the packet mailed to Debra Howland, Executive Director of the PUC.	✓
• An electronic version of the completed application has been sent to executive.director@puc.nh.gov .	✓
<i>*Usually included in the interconnection agreement.</i>	

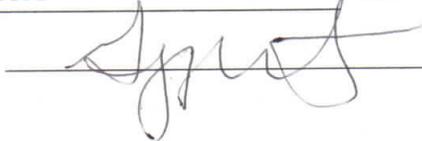
- If the application has been prepared by someone other than the applicant, complete the following. If the application was prepared by the applicant, check here and skip this section.

PREPARER'S INFORMATION

Preparer's Name Gregory Cloutier Email address: Cloutier@ncia.net

Address 80a Elm St City Lancaster State NH Zip 03584

Telephone 603.788.9892 Cell 603.443.7610

Preparer's Signature: 

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

RECEIVED
JAN 02 2014

BY:

Exhibit B - Certificate of Completion for Simplified Process Interconnections

Installation Information:

Check if owner-installed

Customer or Company Name (print): Power House System Inc
Contact Person, if Company: Gregory S.Cloutier
Mailing Address: 80A Elm St.
City: Lancaster State: NH Zip Code: 03582
Telephone (Daytime): 603-788-9892 (Evening): 603-443-7610
Facsimile Number: 802-892-1280 E-Mail Address: cloutier@ncia.net

Address of Facility (if different from above): US Rte 3
City: Northumberland State: NH Zip Code: 03582
Generation Vendor: Smart Energy of NE Contact Person: David Belanger

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

Vendor Signature:

Date: 12-29-2013

Electrical Contractor's Name (if appropriate): S & S Electric
Mailing Address: 241 us Route 3
City: Stewartstown State: NH Zip Code: 03576
Telephone (Daytime): 603-346-8698 (Evening): _____
Facsimile Number: _____ E-Mail Address: _____
License number: 1077M

Date of approval to install Facility granted by the Company: 11-12-2013 Installation Date:

Application ID number: N2822

Inspection:

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

Groveton, Coos

(City/County)

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

Name (printed): Rodney G Smith

Date: 12-30-13

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: MM Cloutier Date: 12/29/2013

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

Simplified Process Interconnection Application and Service Agreement

RECEIVED
NOV 12 2013
SESD

Date Prepared: 10/11/2013

Contact Information:

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

Customer or Company Name (print): Powerhouse Systems, Inc.

Contact Person, if Company: Gregory S. Cloutier

Mailing Address: 80A Elm St.

City: Lancaster State: NH Zip Code: 03582

Telephone (Daytime): 603-788-9892 (Evening): 603-443-7610

Facsimile Number: 802-892-1280 E-Mail Address: Cloutier@NCLIA.NET

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

Name: David Belanger - Smart Energy of New England

Mailing Address: P.O. Box 56

City: Colebrook State: NH Zip Code: 03576

Telephone (Daytime): 603-496-3504 (Evening): 603-915-1507

Facsimile Number: 866-386-0242 E-Mail Address: david@smartenergyne.com

Electrical Contractor Contact Information (if appropriate):

Name: Ron Caron

Mailing Address: 10 State St.

City: Groveton State: NH Zip Code: 03582

Telephone (Daytime): 603-636-2326 (Evening): _____

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

Facility Site Information:

Facility (Site) Address: US Rte 3

City: Northumberland State: NH Zip Code: 03582

Electric

Service Company: PSNH Account Number: 56155401086 Meter Number: G56082529

Non-Default' Service Customers Only:

Competitive Electric

Energy Supply Company: N/A 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/ Solarworld Model Name & SW270 Mono

Inverter Manufacturer: Fronius Number: CL 48kw Wye 277/480 Quantity: 1

Nameplate Rating: 44 (kW) _____ (kVA) _____ (AC Volts) _____ Phase: Single Three

System Design Capacity: 44 (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: meter & disconnect switch to be located on north side of building by main entrance.

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

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: President Date: 10/8/13
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: [Signature] Title: 11-12-13 Date: Manager

PSNH Application Project ID#: 102822

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: *Please call to schedule*

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).

gregory cloutier

From: "Steve Hickey" <sjh@essexhydro.com>
Date: Thursday, January 30, 2014 1:31 PM
To: "gregory cloutier" <waterpower@starband.net>
Cc: <wallin1@myfairpoint.net>; <buzbutch@gmail.com>; <ascloutier@phshydro.com>
Subject: Weston Dam Solar Asset ID

Greg,

I have created the following Asset ID for your Weston Dam Solar facility, please reference it where necessary in your application to the NH PUC for qualification of the facility as a NH Class II RPS resource.

Plant-Unit Name: **Weston Dam Solar**
Asset ID: **NON39169**
Name Plate Capacity: **0.045MW**
Month and Year of Commercial Operation: **1/2014**

Thank you,
Steve

Stephen Hickey
Hydro Management Group LLC
617-367-0032

STATE OF NEW HAMPSHIRE

TDD Access: Relay NH
1-800-735-2964

CHAIRMAN
Amy L. Ignatius

COMMISSIONERS
Robert R. Scott
Martin P. Honigberg

EXECUTIVE DIRECTOR
Debra A. Howland



Tel. (603) 271-2431

FAX No. 271-3878

Website:
www.puc.nh.gov

PUBLIC UTILITIES COMMISSION

21 S. Fruit St., Suite 10
Concord, N.H. 03301-2429

January 21, 2014

Gregory Cloutier
Power House Systems
80A Elm Street
Lancaster, New Hampshire 03582

Re: Commercial and Industrial Rebate #166

Dear Mr. Cloutier:

Thank you for submitting a Step 2 application for the commercial and industrial solar rebate program. I am pleased to report that your application has been approved, and a rebate check from the State will be issued and mailed to you within the next seven to ten days.

I congratulate you on your business's decision to generate clean, reliable, onsite electricity. Your personal commitment to clean energy will aid the State in meeting its energy and environmental goals, including:

- The 25 x '25 initiative to increase the use of renewable energy to 25% of the state's total energy usage by 2025, and
- The Climate Change Action Plan, which calls for the use of renewable energy and other measures to reduce greenhouse gas emissions by 80% below 1990 levels by 2050.

It is my hope and expectation that your example will inspire both colleagues and competitors to consider renewable energy options, and that ultimately hundreds of New Hampshire businesses and non-profits will meet their energy needs with solar resources and other clean energy technologies.

Thank you for doing your part to secure a clean energy future for New Hampshire.

Sincerely,

A handwritten signature in black ink that reads "Elizabeth R. Nixon".

Elizabeth R. Nixon
Sustainable Energy Division

CHANGES TO PROJECT INFORMATION

In the space provided, or in an attachment to this form please inform the Commission of any changes in total project cost, equipment used, or wind/solar resources (i.e. more accurate shading/wind speed estimates or changes in tower height or tilt/azimuth), as well as any other changes to the information provided in the incentive reservation form prior to installation:

no change

Note: Incentives will be issued only after application is judged complete and accurate. The Commission or its agent may confirm, through inspection, that the system is operating consistent with the application.

DECLARATION

The Undersigned applicant declares under penalty of perjury that:

- 1) the applicant has purchased and installed the renewable energy system described above;
- 2) the applicant will not sell or otherwise transfer the equipment unless as a part of a sale of the affected property for a period of 10 years;
- 3) the applicant will notify the Commission if the system becomes non-operational within a period of 10 years;
- 4) the information provided in this form is true and correct to the best of his or her knowledge;
- 5) the applicant understands that program funds are limited and, as a result, there may be a delay in issuing the incentive payment based on the queue position of the applicant; and
- 6) the applicant agrees that the system, interconnection and documents supporting the application may be audited and inspected by the Commission and that the Commission may request energy production data from the applicant for a period of ten (10) years.

Applicant's Signature

[Handwritten Signature]

Date:

1/6/14

Must be signed by the individual originally applying for incentive payment.

County of

COOS

State of

NH

Subscribed and sworn before me this 6th (day) of January (month) in the year 2014

[Handwritten Signature: Andrea Webster]

Notary Public/Justice of the Peace

My Commission expires

ANDREA WEBSTER
 ★ NOTARY PUBLIC - NEW HAMPSHIRE ★
 My Commission Expires March 30, 2016

For questions regarding this rebate program, see the incentive program website at www.puc.nh.gov or contact Kate Epsen at (603) 271-6018 or kate.epsen@puc.nh.gov

Please submit application and all associated documents to:

Sustainable Energy Division
 New Hampshire Public Utilities Commission
 Sustainable Energy Division
 21 S. Fruit Street, Suite 10
 Concord, NH 03301-2429