REC 16-213

KNOLLWOOD ENERGY

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

January 22, 2016

NHPUC 26JAN'16AM11:55

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 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

REC 16-213

NH Public Utilities Commission

REC Aggregator Portal

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

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

Jamie Troon

Facility Owner email

iam2sk@comcast.net

Owner Phone

603-848-4111

Facility Address

114 Lovejoy Rd

Facility Town/City

Loudon

Facility State

NH

Facility Zip

03307

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

Class

II

Utility

Eversource

Other Utility Name

To obtain a GIS ID contact:

James Webb

408 517 2174

jwebb@apx.com

GIS ID (include "NON")

NON56353

Date of Initial Operation

09/08/2015

Facility Operator Name, if applicable

Panel Quantity

24

Panel Make

SunEdison

Panel Model

F270

Panel Rated Output

270

System capacity based on panels

0.0648

Inverter Quantity

24

Inverter Make

Enphase Energy

Add'l Inverter Quantity

NA

Additional Inverter Make

None

Add'l Inverter Model

Rated Output - Primary Inverter

215

Rated Output - Additional Inverter

System capacity based on single inverter make

0.52

System capacity based on two inverter types

System capacity in mW as stated on the interconnection agreement

5.40

Revenue Grade Meter Make

AEE Solar

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

- ○ Yes
- ◉ No

Electrician Name & Number

Brian Pare12245M

Other Electrician Name & Number

Installation Company

SunRay Solar

Other Installation Company Name

Other Inst. Company Address

Other Inst. Company City

Other Inst. Company State

Other Inst. Company Zip

Independent Monitor Name & Company

Paul Button - Energy Audits Unlimited

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.

https://fs30.formsite.com/jan1947/files/f-5-99-5945810_pzCBSQyh_N3964_Troon_PV_-_Processed_A

The project described in this application will meeet 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 independant minitor or a designated representative.

A revenue quality meter is used to measure the electricity generated.

The facility owner has certified to the independant monitor that the meter operaes 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 facilitiy's interconnection agreement is attached.

Please attach additional document here

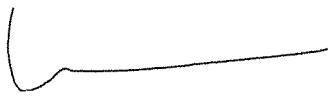
https://fs30.formsite.com/jan1947/files/f-5-168-5945810_6ChW5f6Y_N3964_Troon_PV_-_Certificate_c

Please attach additional document here

https://fs30.formsite.com/jan1947/files/f-5-173-5945810_8NHV6xZL_Troon_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

EVERSOURCE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA
Simplified Process Interconnection Application and Service Agreement

Eversource Application Project ID#: N3964

Contact Information:

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

Customer or Company Name (print): Karen and Jamie Troon

Contact Person, if Company:

Mailing Address: 114 Lovejoy Road

City: Loudon State: NH Zip Code: 03307

Telephone (Daytime): 603-848-4111 (Evening):

Facsimile Number: E-Mail Address: jam2sk@comcast.net

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

Name: SunRay Solar, LLC

Mailing Address: 124A Hall Street

City: Concord State: New Hampshire Zip Code: 03301

Telephone (Daytime): 603-225-6001 (Evening):

Facsimile Number: E-Mail Address: Amanda@spreadthesunshine.com

Electrical Contractor Contact Information (if appropriate):

Name: Brian Pare of SunRay Solar, LLC #12245M – New Hampshire

Mailing Address: 124A Hall Street

City: Concord State: New Hampshire Zip Code: 03301

Telephone (Daytime): 603-225-6001 (Evening):

Facsimile Number: E-Mail Address: Brian@spreadthesunshine.com

Facility Site Information:

Facility (Site) Address: 114 Lovejoy Road

City: Loudon State: NH Zip Code: 03307

Electric

Service Company: Eversource Account Number: 56086051042 Meter Number: S26621079

Account and Meter Number: Please consult an actual Eversource 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 Eversource Work Request number.

Eversource 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.)

EVERSOURCE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA
Simplified Process Interconnection Application and Service Agreement

Facility Machine Information:

Generator/ Inverter Manufacturer: Enphase Model Name & Number: m215 Quantity: 24

Nameplate Rating: 215 (kW) _____ (kVA) _____ (AC Volts) Phase: Single ■ Three ☐

Nameplate Rating: The AC Nameplate rating of the individual inverter.

System Design Capacity: ~~6.45~~ 5.40 (kW) 5.40 (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: outside next to meter

Project Estimated Install Date: September 2015 Project Estimated In-Service Date: September 2015

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: _____ Title: Home Owner Date: 8/21/15

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 Eversource meter socket. Applications without such a diagram may be returned.

For Eversource 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: _____ Title: Associate Eng. Mgr Date: 9/1/15

Eversource
Interconnection Standards For Inverters Sized Up To 100 kVA
Exhibit B - Certificate of Completion for Simplified Process Interconnections

Installation Information: ☐ Check if owner-installed

Customer or Company Name (print): Karen and Jamie Troon

Contact Person, if Company: _____

Mailing Address: 114 lovejoy Rd

City: Louden State: NH Zip Code: 03307

Telephone (Daytime): 603-848-4111 (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

Facility Information: METER # 52662 1079

Address of Facility (if different from above): _____

City: _____ State: _____ Zip Code: _____

Electrical Contractor Contact Information:

Electrical Contractor's Name (if appropriate): Brian Pare of SunRay Solar, LLC

Mailing Address: 124A Hall Street

City: Concord State: NH Zip Code: 03301

Telephone (Daytime): 603-225-6001 (Evening): _____

Facsimile Number: _____ E-Mail Address: brian@spreadthesunshine.com

License number: 12245M

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

Eversource Application ID number: #N3964

Inspection:

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

City: LOUDON, N.H. County: MERRIMACK

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

Signature: Robert N. Fiske

Name (printed): ROBERT N. FISKE Date: 9-8-15

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:

Eversource
Distributed Generation
780 North Commercial Street
P. O. Box 330, Manchester, NH 03105-0330
Fax No.: (603) 634-2924

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.

James Troon

Printed Name of signature owner

James Troon

James Troon (Oct 1, 2015)

Signature of system owner