


# STATE OF NEW HAMPSHIRE

## Intra-Department Communication

**DATE:** December 12, 2014

**AT (OFFICE):** NHPUC

NHPUC 12DEC14PM4:29


**FROM:** Barbara Bernstein   
Sustainable Energy Analyst

**SUBJECT:** Application for Certification as REC Eligible Facilities – Knollwood Energy of MA LLC

|           |                 |           |                 |
|-----------|-----------------|-----------|-----------------|
| DE 14-307 | Craig Cadieux   | DE 14-308 | Mark Starry     |
| DE 14-309 | Adele Bohanan   | DE 14-331 | Sandra Gonyer   |
| DE 14-332 | Arthur Anderson | DE 14-333 | Timothy Bruneau |
| DE 14-334 | Arthea Zandstra | DE 14-335 | Richard Boss    |
| DE 14-336 | Bernice Dustin  |           |                 |

**Staff Recommends Approval**

**TO:** Chair Martin P. Honigberg  
Commissioner Robert R. Scott  
Debra A. Howland, Executive Director and Secretary

**CC:** David J. Shulock, Staff Attorney 

### *Summary*

On November 3, 2014, the Commission received applications filed by Knollwood Energy of MA, LLC<sup>1</sup> (Knollwood Energy) requesting Class II eligibility for photovoltaic (PV) arrays<sup>2</sup> and inclusion in the Knollwood Energy aggregation. The applicants include Craig Cadieux (Cadieux), Mark Starry (Starry), and Adele Bohanan (Bohanan). On November 21, 2014, the Commission received additional applications filed by Knollwood requesting Class II eligibility PV arrays and inclusion in the Knollwood Energy aggregation. These applicants include the Sandra Gonyer (Gonyer), Arthur Anderson (Anderson), Timothy Bruneau (Bruneau), Arthea Zandstra (Zandstra), Richard Boss (Boss), and Bernice Dustin (Dustin) PV arrays.

The Commission, in a non-adjudicative process, is required to issue a determination of whether a facility meets a particular classification within 45 days of receipt of a completed application. The above-named facilities are customer-sited sources and meet the Class II eligibility requirements under RSA 362-F:4, II. Based on review of the applications, Staff recommends that the Commission certify the Cadieux, Starry, and Bohanan arrays as eligible facilities for Class II RECs to be included as part of the Knollwood aggregation effective as of

<sup>1</sup> The Commission approved Knollwood Energy of MA, LLC as an aggregator of RECs on November 12, 2013, DE 13-256.

<sup>2</sup> Pursuant to RSA 362-F, New Hampshire's Electric Renewable Portfolio Standard law. Class II eligibility requires a facility to produce electricity from solar technologies that began operation after January 1, 2006 (RSA 362-F:4, II).

November 3, 2014. Staff further recommends approval for the Gonyer, Anderson, Bruneau, Zandstra, Boss, and Dustin arrays effective as of November 21, 2014.

**Analysis**

To qualify as a REC eligible facility, Puc 2505.08 (b) requires sources to provide the following information:

1. *The name and address of the applicants.*

| Name     | Facility Address         | City        | State | Zip   |
|----------|--------------------------|-------------|-------|-------|
| Cadieux  | 2 Woodside Drive         | Bridgewater | NH    | 03222 |
| Starry   | 463 Josiah Bartlett Road | Concord     | NH    | 03301 |
| Bohanan  | 997 Penacook Road        | Contoocook  | NH    | 03229 |
| Gonyer   | 1020 Clinton Street      | Dunbarton   | NH    | 03046 |
| Anderson | 181 Madbury Road         | Madbury     | NH    | 03823 |
| Bruneau  | 18 Ty Lane               | Concord     | NH    | 03303 |
| Zandstra | 270 Meadorboro Road      | Farmington  | NH    | 03835 |
| Boss     | 85 Currier Road          | Concord     | NH    | 03301 |
| Dustin   | 364 Dustin Road          | Hopkinton   | NH    | 03229 |

2. *A complete list of the equipment used at the facility, including the meter and, if applicable, the inverter. The following equipment was used at these facilities:*

|                 |                                   |                 |                                 |
|-----------------|-----------------------------------|-----------------|---------------------------------|
| Cadieux         |                                   | Starry          |                                 |
| <i>Quantity</i> | <i>Equipment Type</i>             | <i>Quantity</i> | <i>Equipment Type</i>           |
| 30              | Solar World 275 panels            | 24              | Sun Edison F270 panels          |
| 1               | Fronius IG Plus 7.5 inverter      | 24              | Enphase M250 inverters          |
| 1               | GE meter                          | 1               | AEE Solar meter                 |
| 0.0075          | Nameplate Capacity (megawatts)*   | 0.00636         | Nameplate Capacity (megawatts)* |
| Bohanan         |                                   | Gonyer          |                                 |
| <i>Quantity</i> | <i>Equipment Type</i>             | <i>Quantity</i> | <i>Equipment Type</i>           |
| 34              | Sun Edison F265 panels            | 40              | Sun Edison F265 panels          |
| 34              | Enphase M250 inverters            | 40              | Enphase M250 inverters          |
| 1               | AEE Solar meter                   | 1               | AEE Solar meter                 |
| 0.0085          | Nameplate Capacity (megawatts)*   | 0.01            | Nameplate Capacity (megawatts)* |
| Anderson        |                                   | Bruneau         |                                 |
| <i>Quantity</i> | <i>Equipment Type</i>             | <i>Quantity</i> | <i>Equipment Type</i>           |
| 26              | ET Solar ET-P 260W panels         | 20              | Sun Edison F270 panels          |
| 26              | SolarBridge Pantheon II inverters | 20              | Enphase M250 inverters          |
| 1               | Schlumberger Centron Vision meter | 1               | AEE Solar meter                 |
| 0.006188        | Nameplate Capacity (megawatts)*   | 0.005           | Nameplate Capacity (megawatts)* |
| Zandstra        |                                   | Boss            |                                 |
| <i>Quantity</i> | <i>Equipment Type</i>             | <i>Quantity</i> | <i>Equipment Type</i>           |
| 27              | 2Power 11M1000 Mono Black         | 81              | Sun Edison F265 panels          |
| 16              | APS YC 500 A                      | 81              | Enphase M250 inverters          |
| 1               | Schlumberger Centron Vision meter | 1               | AEE Solar meter                 |
| 0.008           | Nameplate Capacity (megawatts)*   | 0.02025         | Nameplate Capacity (megawatts)* |
| Dustin          |                                   |                 |                                 |
| <i>Quantity</i> | <i>Equipment Type</i>             |                 |                                 |
| 36              | Sun Edison F270 panels            |                 |                                 |
| 36              | Enphase M250 inverters            |                 |                                 |
| 1               | AEE Solar meter                   |                 |                                 |
| 0.00954         | Nameplate Capacity (megawatts)*   |                 |                                 |

\*The AC rating of the facility.

3. *The name, license number and contact information of the installer of the applicable generation or solar heating equipment, or a statement that the equipment was installed directly by the customer.*

| Applicant | Installer Name               | Address                                    | Electrician/<br>License # |
|-----------|------------------------------|--------------------------------------------|---------------------------|
| Cadieux   | Alte                         | 330 Codman Hill Road, Boxborough, MA 01719 | Larry Mauchly<br>10931M   |
| Starry    | SunRay Solar                 | 249 Loudon Road, Concord, NH 03301         | Shawn Marvel<br>13363M    |
| Bohanan   | SunRay Solar                 | 249 Loudon Road, Concord, NH 03301         | Shawn Marvel<br>13363M    |
| Gonyer    | SunRay Solar                 | 249 Loudon Road, Concord, NH 03301         | Shawn Marvel<br>13363M    |
| Anderson  | Seacoast Energy Alternatives | PO Box 738, Barrington, NH 03825           | Jeff Newsky<br>M8979      |
| Bruneau   | SunRay Solar                 | 249 Loudon Road, Concord, NH 03301         | Shawn Marvel<br>13363M    |
| Zandstra  | Seacoast Energy Alternatives | PO Box 738, Barrington, NH 03825           | Jeff Newsky<br>M8979      |
| Boss      | SunRay Solar                 | 249 Loudon Road, Concord, NH 03301         | Troy Corey<br>12571M      |
| Dustin    | SunRay Solar                 | 249 Loudon Road, Concord, NH 03301         | Shawn Marvel<br>13363M    |

4. *The name and contact information of the seller of the applicable generation or heating equipment.*

| Applicant | Equipment Vendor    | Address                             |
|-----------|---------------------|-------------------------------------|
| Cadieux   | Same as installer   |                                     |
| Starry    | Sun Edison          | 600 Clipper Dr., Belmont CA 94002   |
| Bohanan   | Same as installer   |                                     |
| Gonyer    | Same as installer   |                                     |
| Anderson  | Sundeavor Logistics | PO Box 277, Proctorsville, VT 05153 |
| Bruneau   | Sun Edison          | 600 Clipper Dr., Belmont CA 94002   |
| Zandstra  | Sundeavor Logistics | PO Box 277, Proctorsville, VT 05153 |
| Boss      | Sun Edison          | 600 Clipper Dr., Belmont CA 94002   |
| Dustin    | Sun Edison          | 600 Clipper Dr., Belmont CA 94002   |

5. *The name and contact information of the independent monitor of the source. These facilities are customer-sited sources and the output must be monitored and verified by an independent monitor pursuant to Puc 2509.09.*

| Applicant | Independent Monitor (IM)             | IM Approval Date | Docket #  |
|-----------|--------------------------------------|------------------|-----------|
| Cadieux   | Paul Button, Energy Audits Unlimited | 06-06-10         | DE 10-128 |
| Starry    | Thomas Kelly, Natural Capital        | 09-26-11         | DE 11-190 |
| Bohanan   | Thomas Kelly, Natural Capital        | 09-26-11         | DE 11-190 |
| Gonyer    | Thomas Kelly, Natural Capital        | 09-26-11         | DE 11-190 |
| Anderson  | Paul Button, Energy Audits Unlimited | 06-06-10         | DE 10-128 |
| Bruneau   | Thomas Kelly, Natural Capital        | 09-26-11         | DE 11-190 |
| Zandstra  | Paul Button, Energy Audits Unlimited | 06-06-10         | DE 10-128 |
| Boss      | Thomas Kelly, Natural Capital        | 09-26-11         | DE 11-190 |
| Dustin    | Thomas Kelly, Natural Capital        | 09-26-11         | DE 11-190 |

The Independent Monitors will report the facilities' total output quarterly to the customer and to the NEPOOL Generation Information System, and annually to the Commission as part of the Knollwood Energy's Class II aggregation pursuant to Puc 2505.09(h)(3).

6. *A copy of the interconnection agreement pursuant to PUC 307.06, if applicable, between the applicant and the distribution utility.*

| Applicant | Utility | Interconnection Agreement                                          | Date*    |
|-----------|---------|--------------------------------------------------------------------|----------|
| Cadieux   | PSNH    | Simplified Process Interconnection Application & Service Agreement | 07-01-14 |
| Starry    | Unitil  | Simplified Process Interconnection Application & Service Agreement | 08-21-14 |
| Bohanan   | PSNH    | Simplified Process Interconnection Application & Service Agreement | 04-25-14 |
| Gonyer    | PSNH    | Simplified Process Interconnection Application & Service Agreement | 05-27-14 |
| Anderson  | PSNH    | Simplified Process Interconnection Application & Service Agreement | 08-25-14 |
| Bruneau   | Unitil  | Simplified Process Interconnection Application & Service Agreement | 10-07-14 |
| Zandstra  | PSNH    | Simplified Process Interconnection Application & Service Agreement | 10-15-14 |
| Boss      | Unitil  | Simplified Process Interconnection Application & Service Agreement | 06-23-14 |
| Dustin    | PSNH    | Simplified Process Interconnection Application & Service Agreement | 08-15-14 |

\* The date the utility approved the facility installation.

7. *An attestation by the applicant that the project is installed and operating in conformance with any applicable building codes.* Affidavits signed by Alane Lakritz were provided with each of the applications.

8. *For an installation with electric output, documentation of the applicable distribution utility's approval of the installation.*

| Applicant | Utility | Utility Approval                                                  | Date*    |
|-----------|---------|-------------------------------------------------------------------|----------|
| Cadieux   | PSNH    | Certificate of Completion for Simplified Process Interconnections | 06-26-14 |
| Starry    | Unitil  | Certificate of Completion for Simplified Process Interconnections | 10-06-14 |
| Bohanan   | PSNH    | Certificate of Completion for Simplified Process Interconnections | 07-30-14 |
| Gonyer    | PSNH    | Certificate of Completion for Simplified Process Interconnections | 09-04-14 |
| Anderson  | PSNH    | Certificate of Completion for Simplified Process Interconnections | 10-22-14 |
| Bruneau   | Unitil  | Certificate of Completion for Simplified Process Interconnections | 10-27-14 |
| Zandstra  | PSNH    | Certificate of Completion for Simplified Process Interconnections | 10-29-14 |
| Boss      | Unitil  | Certificate of Completion for Simplified Process Interconnections | 09-17-14 |
| Dustin    | PSNH    | Certificate of Completion for Simplified Process Interconnections | 10-16-14 |

\* The date the system passed the electrical inspection.

RSA 362-F:6 requires the renewable portfolio standard program to utilize the regional generation information system (GIS) administered by ISO-New England for renewable energy certificates. Knollwood Energy requires each of its participants to acquire a separate GIS facility code.

|           |                   |           |                   |           |                   |
|-----------|-------------------|-----------|-------------------|-----------|-------------------|
| Applicant | GIS Facility Code | Applicant | GIS Facility Code | Applicant | GIS Facility Code |
| Cadieux   | NON 43888         | Starry    | NON 43927         | Bohanan   | NON 43311         |
| Applicant | GIS Facility Code | Applicant | GIS Facility Code | Applicant | GIS Facility Code |
| Gonyer    | NON 43307         | Anderson  | NON 44466         | Bruneau   | NON 44140         |
| Applicant | GIS Facility Code | Applicant | GIS Facility Code | Applicant | GIS Facility Code |
| Zandstra  | NON 44465         | Boss      | NON 44073         | Dustin    | NON 44468         |

***Recommendation***

Staff has reviewed the applications for the above listed PV arrays and participation in the Knollwood Energy aggregation and can affirm each is complete pursuant to Puc 2505.08. Staff has determined that these facilities meet the requirements for certification as a Class II renewable energy source. Based on review of the applications, Staff recommends that the Commission certify the Cadieux, Starry, and Bohanan arrays as eligible facilities for Class II RECs to be included as part of the Knollwood aggregation effective as of November 3, 2014. Staff further recommends approval for the Gonyer, Anderson, Bruneau, Zandstra, Boss, and Dustin arrays effective as of November 21, 2014.

SERVICE LIST - EMAIL ADDRESSES - DOCKET RELATED

Pursuant to N.H. Admin Rule Puc 203.11 (a) (1): Serve an electronic copy on each person identified on the service list.

Executive.Director@puc.nh.gov

Alane@KnollwoodEnergy.com

amanda.noonan@puc.nh.gov

barbara.bernstein@puc.nh.gov

david.shulock@puc.nh.gov

leszek.stachow@puc.nh.gov

tom.frantz@puc.nh.gov

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**FILING INSTRUCTIONS:**

- a) Pursuant to N.H. Admin Rule Puc 203.02 (a), with the exception of Discovery, file 7 copies, as well as an electronic copy, of all documents including cover letter with: DEBRA A HOWLAND  
EXEC DIRECTOR  
NHPUC  
21 S. FRUIT ST, SUITE 10  
CONCORD NH 03301-2429
- b) Serve an electronic copy with each person identified on the Commission's service list and with the Office of Consumer Advocate.
- c) Serve a written copy on each person on the service list not able to receive electronic mail.