


# 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.*

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

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**SERVICE LIST - EMAIL ADDRESSES - DOCKET RELATED**

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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  
amanda.noonan@puc.nh.gov  
barbara.bernstein@puc.nh.gov  
leszek.stachow@puc.nh.gov  
linda@knollwoodenergy.com  
tom.frantz@puc.nh.gov

Docket #: 14-336-1      Printed: December 12, 2014

**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.