The Narragansett Bay Commission One Service Road Providence, Rhode Island 02905

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http://www.narrabay.com



October 21, 2016

Vincent J. Mesolella Chairman

Raymond J. Marshall, P.E. Executive Director

2016 OCT 24 PN 3: 3: PUBLIC UTILITIES COMMISSION

Rhode Island Public Utilities Commission Attn: Luly E. Massaro Commission Clerk 89 Jefferson Blvd Warwick, RI 02888

SUBJECT: Renewable Energy Resources Eligibility GIS Certification #NON86004

Dear Ms. Massaro:

Enclosed please find an Application Form for 1 wind turbine recently purchased by the Narragansett Bay Commission. We look forward to hearing back from you soon with a favorable determination regarding their eligibility as a Renewable Resource. Please don't hesitate to contact me and 401-461-8848 x329 if you have any questions or need additional information.

Sincerely,

Barry Wenskowicz

Pollution Prevention Engineer

RIPUC Use Only	GIS Certification #:
Date Application Received://	
Date Review Completed://	86004
Date Commission Action://	
Date Commission Approved://	

#### RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM

The Standard Application Form

Required of all Applicants for Certification of Eligibility of Renewable Energy Resource
(Version 8 – December 5, 2012)

#### STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISSION

Pursuant to the Renewable Energy Act Section 39-26-1 et. seq. of the General Laws of Rhode Island

#### NOTICE:

When completing this Renewable Energy Resources Eligibility Form and any applicable Appendices, please refer to the State of Rhode Island and Providence Plantations Public Utilities Commission Rules and Regulations Governing the Implementation of a Renewable Energy Standard (RES Regulations, Effective Date: January 1, 2006), and the associated RES Certification Filing Methodology Guide. All applicable regulations, procedures and guidelines are available on the Commission's web site: <a href="www.ripuc.org/utilityinfo/res.html">www.ripuc.org/utilityinfo/res.html</a>. Also, all filings must be in conformance with the Commission's Rules of Practice and Procedure, in particular, Rule 1.5, or its successor regulation, entitled "Formal Requirements as to Filings."

- Please complete the Renewable Energy Resources Eligibility Form and Appendices using a typewriter or black ink.
- Please submit one original and three copies of the completed Application Form, applicable Appendices and all supporting documentation to the Commission at the following address:

Rhode Island Public Utilities Commission Attn: Luly E. Massaro, Commission Clerk 89 Jefferson Blvd Warwick, RI 02888

In addition to the paper copies, electronic/email submittals are required under Commission regulations. Such electronic submittals should be sent to Res.filings@puc.ri.gov.

- In addition to filing with the Commission, Applicants are required to send, electronically or electronically and in paper format, a copy of the completed Application including all attachments and supporting documentation, to the Division of Public Utilities and Carriers and to all interested parties. A list of interested parties can be obtained from the Commission's website at www.ripuc.org/utilityinfo/res.html.
- · Keep a copy of the completed Application for your records.
- The Commission will notify the Authorized Representative if the Application is incomplete.
- Pursuant to Section 6.0 of the RES Regulations, the Commission shall provide a thirty (30) day period for public comment following posting of any administratively complete Application.
- Please note that all information submitted on or attached to the Application is considered to be a public record unless the Commission agrees to deem some portion of the application confidential after consideration under section 1.2(g) of the Commission's Rules of Practice and Procedure.
- In accordance with Section 6.2 of the RES Regulations, the Commission will provide prospective reviews for Applicants seeking a preliminary determination as to whether a facility would be eligible prior to the formal certification process described in Section 6.1 of the RES Regulations. Please note that space is provided on the Form for applicant to designate the type of review being requested.
- Questions related to this Renewable Energy Resources Eligibility Form should be submitted in writing, preferably via email and directed to: Luly E. Massaro, Commission Clerk at Res.filings@puc.ri.gov.

#### **SECTION I: Identification Information**

1.1	Name of Generation Unit (sufficient for full and unique identification): Coventry 1				
1.2	Type of Certification being requested (check one):				
	X Standard Certification				
1.3	This Application includes: (Check all that apply) <sup>1</sup>				
	X APPENDIX A: Authorized Representative Certification for Individual Owner or Operator				
	☐ APPENDIX B: Authorized Representative Certification for Non-Corporate Entities Other Than Individuals				
	☐ APPENDIX C: Existing Renewable Energy Resources				
	X APPENDIX D: Special Provisions for Aggregators of Customer-sited or Off-grid Generation Facilities				
	☐ APPENDIX E: Special Provisions for a Generation Unit Located in a Control Area Adjacent to NEPOOL				
	☐ APPENDIX F: Fuel Source Plan for Eligible Biomass Fuels				
1.4 <u>a</u>	Primary Contact Person name and title: <u>Thomas Uva, Director of Planning, Policy and Regulation</u>				
1.5	Primary Contact Person address and contact information:  Address: One Service Road				
	Providence, RI 02905				
	Phone: <u>401-461-8848 x470</u> Fax: <u>401-461-6540</u> Email: <u>tuva@narrabay.com</u>				
1.6 <u>T</u>	Backup Contact Person name and title: <u>James McCaughey, Environmental, Safety &amp; Cechnical Assistance Manager</u>				
1.7	Backup Contact Person address and contact information:  Address: One Service Road				
	Providence, RI 02905				
	Phone: 401-461-8848 x352 Fax: 401-461-6540 Email: jmccaughey@narrabay.com				

<sup>&</sup>lt;sup>1</sup> Please note that all Applicants are required to complete the Renewable Energy Resources Eligibility Standard Application Form and all of the Appendices that apply to the Generation Unit or Owner or Operator that is the subject of this Form. Please omit Appendices that do not apply.

1.8	certifying the accuracy of all information contained in this form and associated appendices, and whose signature will appear on the application):  Name and Title of Authorized Representative (i.e., the individual responsible for certifying the accuracy of all information contained in this form and associated appendices, and whose signature will appear on the application):  Name and Title of Authorized Representative (i.e., the individual responsible for certifying the accuracy of all information contained in this form and associated appendices, and whose signature will appear on the application):  Name and Title of Authorized Representative (i.e., the individual responsible for certifying the accuracy of all information contained in this form and associated appendices, and whose signature will appear on the application):  Name and Title of Authorized Representative (i.e., the individual responsible for certifying the accuracy of all information contained in this form and associated appendices, and whose signature will appear on the application):  Name and Title of Authorized Representative (i.e., the individual responsible for certifying the accuracy of all information contained in this form and associated appendices, and the individual responsible for certification (i.e., the individual responsible for certification).
	Appendix A or B (as appropriate) completed and attached? X Yes □ No □ N/A
1.9	Authorized Representative address and contact information:  Address:One Service Road  Providence RI 02905
	Phone:       401-461-8848 x321       Fax:       401-461-6540         Email:       rmarshall@narrabay.com
1.10	Owner name and title: <u>Narragansett Bay Commission</u>
1.11	Owner address and contact information:  Address: One Service Road  Providence, RI 02905
	Phone:       401-461-8848       Fax:       401-461-6540         Email:       rmarshall@narrabay.com
1.12	Owner business organization type (check one):  Individual Partnership Corporation X Other:Public Corporation
1.13	Operator name and title: Vensys Energy, Inc.
1.14	Operator address and contact information:  Address:3760 Quaker Lane
	Phone: 401-406-1525 Fax: 401-295-0006 Email: i.jacobs@vensys.de
1.15	Operator business organization type (check one):  ☐ Individual ☐ Partnership  X Corporation ☐ Other:

### SECTION II: Generation Unit Information, Fuels, Energy Resources and Technologies ISO-NE Generation Unit Asset Identification Number or NEPOOL GIS Identification 2.1 86004 Number (either or both as applicable): Generation Unit Nameplate Capacity: 1.5 MW 2.2 Maximum Demonstrated Capacity: N/A \_ MW 2.3 Please indicate which of the following Eligible Renewable Energy Resources are used by 2.4 the Generation Unit: (Check ALL that apply) – per RES Regulations Section 5.0 ☐ Direct solar radiation X The wind ☐ Movement of or the latent heat of the ocean ☐ The heat of the earth ☐ Small hydro facilities ☐ Biomass facilities using Eligible Biomass Fuels and maintaining compliance with all aspects of current air permits; Eligible Biomass Fuels may be co-fired with fossil fuels. provided that only the renewable energy fraction of production from multi-fuel facilities shall be considered eligible. ☐ Biomass facilities using unlisted biomass fuel ☐ Biomass facilities, multi-fueled or using fossil fuel co-firing ☐ Fuel cells using a renewable resource referenced in this section If the box checked in Section 2.4 above is "Small hydro facilities", please certify that the 2.5 facility's aggregate capacity does not exceed 30 MW. - per RES Regulations Section 3.32 □ ← check this box to certify that the above statement is true N/A or other (please explain) If the box checked in Section 2.4 above is "Small hydro facilities", please certify that the 2.6 facility does not involve any new impoundment or diversion of water with an average salinity of twenty (20) parts per thousand or less. – per RES Regulations Section 3.32 $\Box$ $\leftarrow$ check this box to certify that the above statement is true N/A or other (please explain) If you checked one of the Biomass facilities boxes in Section 2.4 above, please respond 2.7 to the following: Please specify the fuel or fuels used or to be used in the Unit: A. Please complete and attach Appendix F, Eligible Biomass Fuel Source Plan. В. Appendix F completed and attached? ☐ Yes ☐ No X N/A

2.8	Has the Generation Unit been certified as a Renewable Energy Resource for eligibility i another state's renewable portfolio standard?  Yes No If yes, please attach a copy of that state's certifying order.				
	Copy of State's certifying order attached?		_	⊠ N/A	
SEC	CTION III: Commercial Operation Date				
Pleas	se provide documentation to support all claims and responses	to the follow	wing que	stions:	
3.1	Date Generation Unit first entered Commercial Operation:	08 / 06	/ <u>16</u> at	the site.	
	If the commercial operation date is after December 31, 199 verification, such as the utility log or metering data, showing after December 31, 1997. This is needed in order to verify New Renewable Energy Resource.	ng that the r	neter firs	t spun	
	Documentation attached?	<b>X</b> Yes	□ No	□ N/A	
3.2	Is there an Existing Renewable Energy Resource located at	the site of	Generation	on Unit?	
	☐ Yes X No				
3.3	If the date entered in response to question 3.1 is earlier than checked "Yes" in response to question 3.2 above, please co				
	Appendix C completed and attached?	☐ Yes	□ No	X N/A	
3.4	Was all or any part of the Generation Unit used on or befor generate electricity at any other site?	e Decembe	r 31, 199	7 to	
	☐ Yes X No				
3.5	If you checked "Yes" to question 3.4 above, please specify t equipment used and the address where such power production electricity (attach more detail if the space provided is not such	on equipme	roductior nt produc	eed	
SEC	TION IV: Metering				
4.1	Please indicate how the Generation Unit's electrical energy that apply):  ISO-NE Market Settlement System	output is v	erified (c	heck all	
	☐ Self-reported to the NEPOOL GIS Administrator				

	X Other (please specify below and see Appendix D: Elig <u>Daymark Energy Advisors</u>	ribility for Aggregations):	
	Appendix D completed and attached?	X Yes 🖸 No 🚨 N/A	
SECT	ION V: Location		
5.1	Please check one of the following that apply to the Gener	ration Unit:	
	☐ Grid Connected Generation ☐ Off-Grid Generation (not connected to a utility transmost X Customer Sited Generation (interconnected on the encelectricity meter in such a manner that it displaces all or profit the end-use customer)	d-use customer side of the retail	
5.2	Generation Unit address: Located on Piggy Lane, Coventry RI, 02816		
5.3 Please provide the Generation Unit's geographic location information:			
	A. Universal Transverse Mercator Coordinates:		
	B. Longitude/Latitude: <u>Please see box on right</u>	Coventry 1 - W 41° 40` 31.8`` N 71° 42` 28.1``	
5.4	The Generation Unit located: (please check the appropria	te box)	
	<ul> <li>☑ In the NEPOOL control area</li> <li>☑ In a control area adjacent to the NEPOOL control are</li> <li>☑ In a control area other than NEPOOL which is not ad area ← If you checked this box, then the generator do therefore, please do not complete/submit this form.</li> </ul>	jacent to the NEPOOL control	
5.5	If you checked "In a control area adjacent to the NEPOO above, please complete Appendix E.	L control area" in Section 5.4	
	Appendix E completed and attached?	□ Yes □ No X N/A	

### **SECTION VI: Certification**

6.1	Please attach documentation, using one of the applicable forms below, demonstrating the authority of the Authorized Representative indicated in Section 1.8 to certify and submit this Application.					
	Corporations					
	If the Owner or Operator is a corporation, the Authorized Representative shall provide <b>either</b> :					
	(a) Evidence of a board of directors vote granting authorit Representative to execute the Renewable Energy Reso	oard of directors vote granting authority to the Authorized o execute the Renewable Energy Resources Eligibility Form, or				
	(b) A certification from the Corporate Clerk or Secretary of the Corporation that the Authorized Representative is authorized to execute the Renewable Energy Resource Eligibility Form or is otherwise authorized to legally bind the corporation in like matters.					
	Evidence of Board Vote provided?	<b>X</b> Yes	□ No	□ N/A		
	Corporate Certification provided?	☐ Yes	□ No	□ N/A		
	<u>Individuals</u>					
	If the Owner or Operator is an individual, that individual shall complete and attach APPENDIX A, or a similar form of certification from the Owner or Operator, duly notarized, that certifies that the Authorized Representative has authority to execute the Renewable Energy Resources Eligibility Form.					
	Appendix A completed and attached?	<b>X</b> Yes	□ No	□ N/A		
	Non-Corporate Entities					
	(Proprietorships, Partnerships, Cooperatives, etc.) If the Owner or Operator is not an individual or a corporation, it shall complete and attach APPENDIX B or execute a resolution indicating that the Authorized Representative named in Section 1.8 has authority to execute the Renewable Energy Resources Eligibility Form or to otherwise legally bind the non-corporate entity in like matters.			ecute a 8 has		
	Appendix B completed and attached?	☐ Yes	☐ No	X N/A		

#### 6.2 Authorized Representative Certification and Signature:

I hereby certify, under pains and penalties of perjury, that I have personally examined and am familiar with the information submitted herein and based upon my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties, both civil and criminal, for submitting false information, including possible fines and punishment. My signature below certifies all information submitted on this Renewable Energy Resources Eligibility Form. The Renewable Energy Resources Eligibility Form includes the Standard Application Form and all required Appendices and attachments. I acknowledge that the Generation Unit is obligated to and will notify the Commission promptly in the event of a change in a generator's eligibility status (including, without limitation, the status of the air permits) and that when and if, in the Commission's opinion, after due consideration, there is a material change in the characteristics of a Generation Unit or its fuel stream that could alter its eligibility, such Generation Unit must be re-certified in accordance with Section 9.0 of the RES Regulations. I further acknowledge that the Generation Unit is obligated to and will file such quarterly or other reports as required by the Regulations and the Commission in its certification order. I understand that the Generation Unit will be immediately de-certified if it fails to file such reports.

Signature of Authorized Representative:

SIGNATURE:	DATE:
Raymont Wantell	10/20/16
0-11-1	-
Executive Director	
(Title)	

GIS	Certification #:
_	86004

## APPENDIX A

(Required When Owner or Operator is An Individual)

## STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISION

## RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM

I, Raymond Marshall, as Owner or Operator of the Generation Unit named in Section
1.1 of the attached Renewable Energy Resources Eligibility Form, under the pains and penalties
of perjury, hereby certify that Raymond Marshall, named in
Section 1.8 of the attached Application, is authorized to execute this Renewable Energy
Resource Eligibility Form.
SIGNATURE:  DATE:  10/20/16  Executive Director  (Title)
State: Rhode Island
County: Providence  (TO BE COMPLETED BY NOTARY) I, Aren E. Musume is as a notary public, certify that I witnessed the signature of the above named Roymond J. Marshall and said individual verified his/her identity to me on this date:
SIGNATURE Am.  My commission expires on: 3/4/2020 NOTARY SEAL:
The state of the s

GIS Certification #:			

### APPENDIX B

### (Required When Owner or Operator is a Non-Corporate Entity Other Than An Individual)

## STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISION

## RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM

RESOLUTION OF AUTHORIZATION	
Resolved: that	, named in
Section 1.8 of the Renewable Energy Resources E	
is authorized to execute the Application on the be	half of,
the Owner or Operator of the Generation Unit nan	ned in section 1.1 of the Application.
SIGNATURE:	DATE:
State:	
County:	
(TO BE COMPLETED BY NOTARY) I,	as a
notary public, certify that I witnessed the signat	ure of the above named,
and that said person stated that he/she is authorized	ed to execute this resolution, and the individual
verified his/her identity to me, on this date:	·
SIGNATURE:	DATE:
My commission expires on:	NOTARY SEAL:

GIS	Certification	#:	

## APPENDIX C (Revised 6/11/10)

(Required of all Applicants with Generation Units at the Site of Existing Renewable Energy Resources)

## STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISION

## RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM

(2) is	Generation Unit: (1) first entered into commercial operation before December 31, 1997; or located at the exact site of an Existing Renewable Energy Resource, please complete the ing and attach documentation, as necessary to support all responses:	
C.1	Is the Generating Unit seeking certification, either in whole or in part, as a New Renewable Energy Resource? ☐ Yes ☐ No	
C.2	If you answered "Yes" to question C.1, please complete the remainder of Appendix C. If you answered "No" and are seeking certification entirely as an Existing Renewable Energy Resource, you do NOT need to complete the remainder of Appendix C.	
C.3	If an Existing Renewable Energy Resource is/was located at the site, has such Existing Renewable Energy Resource been retired and replaced with the new Generation Unit at the same site?	
C.4	Is the Generation Unit a Repowered Generation Unit (as defined in Section 3.29 of the RES Regulations) which uses Eligible Renewable Energy Resources and which first entered commercial operation after December 31, 1997 at the site of an existing Generation Unit?	
C.5	If you checked "Yes" to question C.4 above, please provide documentation to support that the entire output of the Repowered Generation Unit first entered commercial operation after December 31, 1997.	
C.6	Is the Generation Unit a multi-fuel facility in which an Eligible Biomass Fuel is first cofired with fossil fuels after December 31, 1997?	

- C.7 If you checked "Yes" to question C.6 above, please provide documentation to support that the renewable energy fraction of the energy output first occurred after December 31, 1997.
- C.8 Is the Generation Unit an Existing Renewable Energy Resource other than an Intermittent Resource (as defined in Sections 3.10 and 3.15 of the RES Regulations)? ☐ Yes ☐ No
- C.9 If you checked "Yes" to question C.8 above, please attach evidence of completed capital investments after December 31, 1997 attributable to efficiency improvements or additions of capacity that are sufficient to, were intended to, and can be demonstrated to increase annual electricity output in excess of ten percent (10%). As specified in Section 3.23.v of the RES Regulations, the determination of incremental production shall not be based on any operational changes at such facility **not directly** associated with the efficiency improvements or additions of capacity.

Please provide the single proposed percentage of production to be deemed incremental, attributable to the efficiency improvements or additions of capacity placed in service after December 31, 1997. Please make this calculation by comparing actual electrical output over the three calendar years 1995-1997 (the "Historical Generation Baseline") with the actual output following the improvements. The incremental production above the Historical Generation Baseline will be considered "New" generation for the purposes of RES. Please give the percentage of the facility's total output that qualifies as such to be considered "New" generation.

- C.10 Is the Generating Unit an Existing Renewable Energy Resource that is an Intermittent Resource?
- C.11 If you checked "Yes" to question C.10 above, please attach evidence of completed capital investments after December 31, 1997 attributable to efficiency improvements or additions of capacity that are sufficient to, were intended to, and have demonstrated on a normalized basis to increase annual electricity output in excess of ten percent (10%). The determination of incremental production shall not be based on any operational changes at such facility **not directly** associated with the efficiency improvements or additions of capacity. In no event shall any production that would have existed during the Historical Generation Baseline period in the absence of the efficiency improvements or additions to capacity be considered incremental production. Please refer to Section 3.23.vi of the RES Regulations for further guidance.
- C.12 If you checked "Yes" to C.10, provide the single proposed percentage of production to be deemed incremental, attributable to the efficiency improvements or additions of capacity placed in service after December 31, 1997. The incremental production above the Historical Generation Baseline will be considered "New" generation for the purposes of RES. Please make this calculation by comparing actual monthly electrical output over the three calendar years 1995-1997 (the "Historical Generation Baseline") with the actual output following the improvements on a normalized basis. Please provide back-up

information sufficient for the Commission to make a determination of this incremental production percentage.

For example, for small hydro facilities, please use historical river flow data to create a monthly normalized comparison (e.g. average MWh produced per cubic foot/second of river flow for each month) between actual output values post-improvements with the Historical Generation Baseline. For solar and wind facilities, please use historical solar irradiation, wind flow, or other applicable data to normalize the facility's current production against the Historical Generation Baseline.

- C.13 If you checked "no" to both C.3 and C.4 above, please complete the following:
  - a. Was the Existing Renewable Energy Resource located at the exact site at any time during calendar years 1995 through 1997? ☐ Yes ☐ No
  - b. If you checked "yes" in Subsection (a) above, please provide the Generation Unit Asset Identification Number and the average annual electrical production (MWhs) for the three calendar years 1995 through 1997, or for the first 36 months after the Commercial Operation Date if that date is after December 31, 1994, for each such Generation Unit.
  - c. Please attach a copy of the derivation of the average provided in (b) above, along with documentation support (such as ISO reports) for the information provided in Subsection (b) above. Data must be consistent with quantities used for ISO Market Settlement System.

## APPENDIX D

(Revised 6/11/10)

(Required of Applicants Seeking Eligibility for Customer-Sited and/or Off-Grid Generation Facilities and Associated Aggregations)

### STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISION

### RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM

Pursuant to the Renewable Energy Act Section 39-26-1 et. seq. of the General Laws of Rhode Island

Customer-sited and Off-grid Generation Facilities located in Rhode Island may be certified as an eligible resource if their NEPOOL GIS Certificates are created by way of an aggregation of Generation Units using the same generation technology, and so long as the aggregation is certified by the Commission. Please complete the following and attach documentation, as necessary to support all responses:

- D.1 Please identify the location(s) in Rhode Island of each Generation Unit that is interconnected on the End-use Customer's side of the retail electricity meter in such a manner that it displaces all or part of the metered consumption of the End-use Customer, or not connected to a utility transmission or distribution system.
   The following wind turbine will remotely net meter to NBC accounts:
   Coventry 1 (Vensys 82/1.5 MW for 85 m hub height wind turbine)
   It will operate in conjunction with Coventry 3 and Coventry 4 (Eligibility application submitted 9/23/16)
- D.2 Please attach proposed procedures under which the aggregate Generation Units will operate ("Aggregation Agreement"). In accordance with Section 6.8.(iii) of the RES Regulations, the proposed Aggregation Agreement shall contain the following information:
  - (a) Name and contact information of the Aggregator Owner, to which these regulations and stipulations of certification shall apply, and who shall be the initial owner of any NEPOOL GIS Certifications so certified;
  - (b) Name, contact information, and qualifications of the Verifier. Qualifications shall include any information the applicant believes will assist the Commission in determining that the Verifier will accurately and efficiently carry out its duties. After receipt of the application, the Commission may require additional evidence of qualifications;

- (c) A declaration of any and all business or financial relations between Aggregator Owner and Verifier, which the Commission will use to evaluate the independence of the Verifier.<sup>2</sup>
  - (c.1) The Aggregation Agreement shall include a statement indicating under what circumstances the Verifier would not be considered sufficiently independent of the individual Generation Unit, and that Generation Units not meeting this independence test would not be allowed to participate in the aggregation;
- (d) Type of technology that will be included in the aggregation, and statement that the aggregation will include only individual Generation Units that meet all the requirements of these regulations, for example physical location, vintage, etc. (All generators within the aggregation must be of the same technology and fuel type);
- (e) Proposed operating procedures for the aggregation, by which the Aggregation Owner shall ensure that individual Generation Units in the aggregation comply with all eligibility requirements and that the NEPOOL GIS Certificates created accurately represent generation;<sup>3</sup>
- (f) Description of how the Verifier will be compensated for its services by the aggregator. In no instances will an aggregation be certified in which the Verifier is compensated in a manner linked to the number of NEPOOL GIS Certificates created by the aggregation; and
- Confirmation and a description of how, no less frequently than quarterly, the Verifier will directly enter into the NEPOOL GIS the quantity of energy production in the applicable time period from each Generation Unit in the aggregation. The entry of generation data by the Verifier must be through an interface designated for this purpose by the NEPOOL GIS and in accordance with NEPOOL GIS Operating Rules applicable to Third-Party Meter Readers, and to which the Aggregation Owner shall not have access<sup>4</sup>.

### D.3 Applicant must acknowledge that:

<sup>2</sup> Reasons for ruling that a Verifier is not sufficiently independent include, but are not limited to: i) If one entity owns, directly or indirectly, or if a natural person so owns, 10% or more of the voting stock or other equity interest in the other entity; ii) If 10% or more of the voting stock or other equity interests in both entities are owned, directly or indirectly, by the same entity or a natural person; or iii) If one entity is a natural person, and such entity or a member of such entity's immediate family is an officer, director, partner, employee or representative of the other entity

At a minimum, these procedures will: i) require a determination by the Aggregation Owner that the Generation Unit is in compliance with these Renewable Energy Standard regulations and the Aggregation Agreement as approved by the Commission, and an independent determination by the Verifier that the Generation Unit exists; ii) require a meter reading procedure that allows the Verifier to read meters on the Generation Units; meter readings may be manual or remote and via the aggregators own system or via an independent system, but in all cases shall comply with NEPOOL GIS Operating Rules regarding metering; iii) require confirmation that Verifier will be entering the quantity of energy production in to the NEPOOL GIS system as described in paragraph (g) for NEPOOL GIS to create NEPOOL GIS Certificates; and OL GIS Certificates; and; iv) include a procedure for the Verifier to report to the Commission on the results of their verification process.

<sup>&</sup>lt;sup>4</sup> Such generation data shall not include any generation data from previous time periods, except as provided for in this section. Output of less than one MWh by any single Generation Unit within the aggregation may be applied to the entire aggregation's generation, and generation of the aggregation less than one full MWh may be applied to the subsequent quarter in accordance with NEPOOL GIS Operating Rules.

	(a)	any changes to or deviations from the Aggregation Agreement will be considered a change in generator status, and will require recertification by the Commission;
		X ← please check this box to acknowledge this requirement
		□ N/A or other (please explain)
	(b)	the Commission will be promptly notified of any changes to or deviations from the Aggregation Agreement; and
		X ← please check this box to acknowledge this requirement
		□ N/A or other (please explain)
	(c)	in the event that notice of such changes or deviations is not promptly given, all Generation Units in the aggregation may be de-certified.
		X ← please check this box to acknowledge this requirement
		□ N/A or other (please explain)
D.4	Appl	icant must certify that:
	Gene Islan Attri part	Generation Unit (or aggregation of generation units) is a Customer-sited or Off-grid ration Resource, as defined in Section 39-26-2.4 of the General Laws of Rhode and Section 3.26 of the RES Regulations, respectively, the associated Generation butes have not otherwise been, nor will be sold, retired, claimed or represented as of electrical energy output or sales, or used to satisfy obligations in jurisdictions than Rhode Island.
		$X \leftarrow$ please check this box to certify that this statement is true
		□ N/A or other (please explain)

GIS (	Certification	#:
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## APPENDIX E (Revised 6/11/10)

(Required of all Applicants Located in a Control Area Adjacent to NEPOOL)

### STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISION

## RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM

Please	complete the following and attach documentation, as necessary to support all responses:
E.1	Please indicate in which Control Area adjacent to NEPOOL the Generation Unit is located:
	<ul> <li>□ New York</li> <li>□ Hydro Quebec</li> <li>□ Maritimes (including Northern Maine Independent System Administrator)</li> </ul>
E.2	Applicant must provide to the Commission by July 1 <sup>st</sup> of each year assurances that the Generation Unit's New Renewable Energy Resources used for compliance with the Rhode Island's Renewable Energy Act during the previous Compliance Year have not otherwise been, nor will be, sold, retired, claimed or represented as part of electrical energy output or sales, or used to satisfy obligations in jurisdictions other than Rhode Island. Such assurances may consist of a report from a neighboring Generation Attribute accounting system or an affidavit from the Generation Unit.
	□ ← please check this box to acknowledge this requirement
	□ N/A or other (please explain)
E.3	Applicant must acknowledge and provide evidence to support that, in accordance with Section 5.1.(ii) of the RES Regulations, the Generation Attributes associated with the Generation Unit shall be applied to the Rhode Island Renewable Energy Standard only to the extent of the energy produced by the Generation Unit that is or will be actually delivered into NEPOOL for consumption by New England customers. Verification of the delivery of such energy from the Generation Unit into NEPOOL will be performed in accordance with subparagraphs (a), (b) and (c) of RES Regulations Section 5.1.(ii)
	□ ← please check this box to acknowledge this requirement.

Ge	eneration	uragraph 5.1.(fi)(a), Applicant must verify that the energy produced by the Unit is actually delivered into NEPOOL via "a unit-specific bilatera the sale and delivery of such energy into NEPOOL".
on de	going evi livery into	check this box to acknowledge the requirement for Applicant to provide dence of one or more unit-specific bilateral contract(s) for all energy NEPOOL for which Applicant seeks RI RES certification, prior to ertificates in each quarter, and:
	i	. Please describe the type of evidence to be provided to the GIS Administrator to demonstrate the existence of such unit-specific bilateral contract(s) for the sale and delivery of such energy into NEPOOL, including duration, quantity and counter-party in NEPOOL:
□ N/4 	A or other	(attach more detail if the space provided is not sufficient)  (please explain):

GIS (	Certifi	catio	n#:
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## APPENDIX F (Revised 6/11/10)

## Eligible Biomass Fuel Source Plan (Required of all Applicants Proposing to Use An Eligible Biomass Fuel)

# STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISION Part of Application for Certificate of Eligibility RENEWABLE ENERGY RESOURCES ELIGIBILITY FORM

Pursuant to the Renewable Energy Act Section 39-26-1 et. seq. of the General Laws of Rhode Island

Note to Applicants: Please refer to the RES Certification Filing Methodology Guide posted on the Commission's web site (<a href="www.ripuc.org/utilityinfo/res.html">www.ripuc.org/utilityinfo/res.html</a>) for information, templates and suggestions regarding the types and levels of detail appropriate for responses to specific application items requested below. Also, please see Section 6.9 of the RES Regulations for additional details on specific requirements.

The phrase "Eligible Biomass Fuel" (per RES Regulations Section 3.7) means fuel sources including brush, stumps, lumber ends and trimmings, wood pallets, bark, wood chips, shavings, slash, yard trimmings, site clearing waste, wood packaging, and other clean wood that is not mixed with other unsorted solid wastes<sup>5</sup>; agricultural waste, food and vegetative material; energy crops; landfill methane<sup>6</sup> or biogas<sup>7</sup>, provided that such gas is collected and conveyed directly to the Generation Unit without use of facilities used as common carriers of natural gas; or neat biodiesel and other neat liquid fuels that are derived from such fuel sources.

In determining if an Eligible Biomass Generation Unit shall be certified, the Commission will consider if the fuel source plan can reasonably be expected to ensure that only Eligible Biomass Fuels will be used, and in the case of co-firing ensure that only that proportion of generation attributable to an Eligible Biomass Fuel be eligible. Certification will not be granted to those Generation Units with fuel source plans the Commission deems inadequate for these purposes.

<sup>&</sup>lt;sup>5</sup> Generation Units using wood sources other than those listed above may make application, as part of the required fuel source plan described in Section 6.9 of the RES Regulations, for the Commission to approve a particular wood source as "clean wood." The burden will be on the applicant to demonstrate that the wood source is at least as clean as those listed in the legislation. Wood sources containing resins, glues, laminates, paints, preservatives, or other treatments that would combust or off-gas, or mixed with any other material that would burn, melt, or create other residue aside from wood ash, will not be approved as clean wood.

<sup>&</sup>lt;sup>6</sup> Landfill gas, which is an Eligible Biomass Fuel, means only that gas recovered from inside a landfill and resulting from the natural decomposition of waste, and that would otherwise be vented or flared as part of the landfill's normal operation if not used as a fuel source.

<sup>&</sup>lt;sup>7</sup> Gas resulting from the anaerobic digestion of sewage or manure is considered to be a type of biogas, and therefore an Eligible Biomass Fuel that has been fully separated from the waste stream.

This Appendix must be attached to the front of Applicant's Fuel Source Plan required for Generating Units proposing to use an Eligible Biomass Fuel (per Section 6.9 of RES Regulations).

The attached Fuel Source Plan includes a detailed description of the type of Eligible Biomass Fuel to be used at the Generation Unit.				
Detailed description attached?	☐ Yes	□ No	□N/A	
Comments:				
If the proposed fuel is "other clean wood," the Fuel Source Plan should include any further substantiation to demonstrate why the fuel source should be considered as clean as those clean wood sources listed in the legislation.				
Further substantiation attached?  Comments:	☐ Yes	□ No	□N/A	
In the case of co-firing with ineligible fuels, the Fuel Source Plan must include a description of (a) how such co-firing will occur; (b) how the relative amounts of Eligible Biomass Fuel and ineligible fuel will be measured; and (c) how the eligible portion of generation output will be calculated. Such calculations shall be based on the energy content of all of the proposed fuels used.				
• •				
Description attached?	□ Yes	□No	□N/A	
Description attached?  Comments:				
•	what meass amples of	ures will t	oe taken to	
The Fuel Source Plan must provide a description of we ensure that only the Eligible Biomass Fuel are used, exstandard operating protocols or procedures that will be	what meass amples of	ures will t	oe taken to	
The Fuel Source Plan must provide a description of we ensure that only the Eligible Biomass Fuel are used, ex standard operating protocols or procedures that will be Unit, contracts with fuel suppliers, testing or sampling reg	what meast amples of implemen imes.	ures will t f which m ted at the	oe taken to ay include Generation	

	$\Box$ $\leftarrow$ check this box to certify that the above statement is true				
*	If the proposed fuel includes recycled wood waste, please submit documentation that such fuel meets the definition of Eligible Biomass Fuel and also meets material separation, storage, or handling standards acceptable to the Commission and furthermore consistent with the RES Regulations.				
F.6					
	Documentation attached?				
F.7	Please certify that you will file all reports and other information necessary to enable the Commission to verify the on-going eligibility of the renewable energy generator pursuant to Section 6.3 of the RES Regulations. Specifically, RES Regulations Section 6.3(i) states that Renewable Energy Resources of the type that combust fuel to generate electricity must file quarterly reports due 60 days after the end of each quarter on the fuestream used during the quarter. Instructions and filing documents for the quarterly report can be found on the Commissions website or can be furnished upon request.  □ ← check this box to certify that the above statement is true □ N/A or other (please explain)				
F.8	Please attach a copy of the Generation Unit's Valid Air Permit or equivalent authorization.				
	Valid Air Permit or equivalent attached? ☐ Yes ☐ No ☐ N/A Comments:				
F.9	Effective date of Valid Air Permit or equivalent authorization:				
F.10	State or jurisdiction issuing Valid Air Permit or equivalent authorization:				

#### Authorization to Interconnect

Greetings,

National Grid has received all required documentation regarding your 1500kW (AC) Turbine system located at 0 Piggy Lane, Coventry, RI 02816. Your system is now authorized to interconnect to and operate in parallel with the National Grid electric power system.

#### **Authority to Interconnect**

This authorization is based upon the Facility as described in the fully executed Interconnection Service Agreement dated **08/06/2015** and all related documentation. Please note that your obligation to report any proposed changes to the Facility (e.g., Facility ownership, type of technology, Facility equipment, etc.) is governed by all applicable tariffs and the rules and regulations of the Rhode Island Public Utilities Commission, including but not limited to the Company's Interconnection Tariff, R.I.P.U.C. 2163.

#### Changes to System Ownership

Please submit any changes to system ownership to: Distributed.Generation@nationalgrid.com

Any changes to ownership information should be reported immediately to ensure that our records are up-to-date, that net metering credits are allocated appropriately, and legal and emergency notifications are issued correctly. Changes to ownership that need to be reported include, but are not limited to:

- A sale of the generating system to a third party owner
- A sale of the property at which the generating system is located (e.g. a new homeowner is moving into a house that hosts a net metered system)
- A change in the responsible party for the billing account (e.g. business mergers where the name
  of the business changes).

#### **Net Metered Billing**

Please refer to National Grid's **First Bill Walk Through** for information about what to expect on your first bill with net metering credits:

If you experience any billing issues, please contact National Grid:

- E-Mail: commercial.accounts@nationalgrid.com
- Customer Service: (800) 322-3223

Net metering credits may not be applied to the host account (where the net meter is located) until the following billing cycle. If your system is transferring net metering credits to other accounts, the non-host account(s) may need to wait for an additional billing cycle (beyond the delay for the host account) before the net metering credits are applied to the non-host account(s).

Please check National Grid's Distributed Generation website for the latest updates and information: https://www.nationalgridus.com/narragansett/home/energyeff/distributed\_generation.asp.

National Grid wishes you the best with your new system and hopes you get many productive years of use.

Regards,

## Distributed Generation

The Narragansett Bay Commission One Service Road Providence, RI 02905

(401) 461-8848 (401) 461-6540 FAX Vincent J. Mesolella Chairman

Raymond J. Marshall, P.E. Executive Director



#### Resolution 2016:10

## Authorization to Enter into an Agreement with Wind Energy Development, LLC for a Project that includes Three (3) 1.5MW Wind Turbines

WHEREAS, the NBC issued a Request for Qualifications/Proposals seeking proposals for alternative energy projects that would allow NBC to net meter up to 5MW of electricity per project from locations remote from existing NBC property; and

WHEREAS, NBC received proposals from four companies and staff review determined that two 5MW solar energy proposals submitted by Coronal Municipal Energy Services appear to be in the best interest of the NBC and ratepayers; and approved Resolution 2015:24

WHEREAS, the Board expressed an interest in pursuing the goal of purchasing 100% of NBC's power needs from renewable energy sources; and

WHEREAS, Wind Energy Development, LLC (WED) had submitted a proposal that the Board considered viable and asked the staff to continue to evaluate and negotiate a possible agreement; and

WHEREAS, the staff and Chairman have successfully negotiated a reduction in the capital cost of the acquisition and identified other favorable conditions; and

WHEREAS, the wind energy project will benefit NBC ratepayers by stabilizing the cost of up to 4.5MW of electricity usage for NBC for the next 25 years and will benefit the environment by reducing an estimated 3070 metric tons of carbon dioxide equivalents annually; and

WHEREAS, the capital expenditures required by the NBC to acquire the wind turbine facilities will come from the restricted funds account that is set aside for capital projects.

**NOW, THEREFORE, BE IT RESOLVED**, that the Board hereby authorizes the Chairman and Executive Director to enter into negotiations with Wind Energy Development, LLC for up to three 1.5MW wind turbines.

ADOPTED ON:

SIGNED:

Raymond Marshall, P.E.

Executive Director & Secretary, NBC

#### STATE OF RHODE ISLAND PUBLIC UTILITIES COMMISION

#### **Additional Attachments**

**ATTACHMENT A:** Third Party Verifier resume

See attached resume of Dimitri Kordonis.

**ATTACHMENT B:** Statement describing the affiliation between the Verifier and the Generation Facility, Generation Facility's Owner and the Generation Facility's Authorized Representative.

Daymark Energy Advisors (formerly known as La Capra Associates) is a full-service, independent employee-owned energy consulting firm. Daymark has been in the energy business for over 30 years. Daymark Energy Advisors does not have any ownership stake in the wind project associated with Narragansett Bay Commission (NBC). Dymark Energy Advisors has neither stock nor equity interests in the NBC wind project. In addition, NBC has no ownership or equity interest in Daymark Energy Advisors. Both companies/entities are independent of one another.

Daymark Energy Advisors is contracted by NBC to provide Independent Third Party Meter Reader services, and is compensated for its services to verify and read the meter at Coventry Wind Farm and to enter metering data into the NEPOOL GIS system. Compensation includes costs for Daymark Energy Advisors time to inspect the meters and conduct periodic meter reads, perform data validation, and enter data into the NEPOOL GIS.

Daymark Energy Advisors (La Capra Associates) is currently registered as an Independent Verifier in the NEPOOL GIS system (ID14650). Daymark Energy Advisors was accepted on July 12, 2010 as an Independent Verifier by the Massachusetts Department of Energy Resources. Daymark Energy Advisors has provided similar services for hydro, LFG, and solar facilities in Massachusetts, Rhode Island, and Vermont.



### **Dimitri Kordonis**

#### Consultant

Dimitri Kordonis has experience in market operations, financial and power system analyses, and project management. He works with clients on matters including transmission planning, energy markets operations and procurement, renewable energy system integration and economics, market analytics, and stakeholder support. Prior to joining Daymark Energy Advisors, Mr. Kordonis worked six years for ISO New England in the market operations department, where he was responsible for power system analyses, Day-Ahead Market, Financial Transmission Right, and Forward Reserve Market administration. Mr. Kordonis has an M.S. and B.S. in Electrical Engineering from Rutgers University as well as an MBA from the University of Massachusetts. In addition he served in the U.S. Navy for four years as a Gas Systems Engineer.

#### SELECTED PROFESSIONAL EXPERIENCE

#### Market modeling and Market design

- Advises the New York State Utility Intervention Unit (NY UIU) regarding the design of New York ISO's energy, ancillary service and capacity market structures and the coordination of gas-electric infrastructure and market issues in New York. (2015-present)
- Assisted Marc D. Montalvo in preparing expert testimony to the FERC on behalf of generation suppliers in New England providing analysis, critique, and recommended revisions on proposed changes to the ISO-NE Tariff provisions regarding capacity market design and mitigation rules.
- Improved the methodology used for the development of the Financial Transmission Rights assumptions for ISO-NE that resulted in congestion revenue adequacy for multiple years.
- Assisted in various enhancements to ISO-NE's simultaneous feasibility test (SFT) and Scheduling,
   Pricing and Dispatch (SPD), that included introduction of the Combined Cycle generators, Wind assets and Demand Response in the Day Ahead and Real Time Markets.
- Conducted multiple Forward Reserve Market runs to support new market developments and requests.

#### Transmission/Planning

- Performed short term load flow transmission studies to assess system reliability to support NEPOOL and ISO-NE requests.
- Performed daily economic impact analysis of short term transmission outages to minimize economic impact in accordance with the ISO's market rules and operating procedures.
- Supported and assisted in special studies to determine reliable operating limits for internal and external interfaces to ISO-NE.

- Assessed technical thermal analysis of transmission and generation outages focused on specific asset or transmission element.
- Implemented NERC CIP program and conducted NERC risk based methodology assessment for all Edison Mission Energy's critical assets and critical cyber assets.
- Evaluated Non Transmission Alternatives for major transmission enhancements to determine whether they met the region's reliability criteria and assessed their cost.
- Reviewed capital plans and cost recovery mechanisms for capital expenditures that included engineering review of construction budgets and system performance.

#### **Procurement/Market Analytics**

- Prepared projections of Locational Marginal Prices (LMP), Financial Transmission Rights/Congestion Revenue Rights (FTR/CRR) Clearing Prices, Reserve Market Clearing Prices and FCM Clearing Prices using market simulation tools and analyzed the results.
- Key contributor to Wind integration, demand response integration and Long Term Financial Transmission Rights integration efforts at ISO-NE.
- Contributed subject matter expert content for published reports circulated by ISO-NE to Market Participants describing strategic market initiatives and potential issues.
- Identified new areas of enhancements to improve asset management in various de-regulated markets that include PJM, MISO and ERCOT.
- Contributed in the valuation of assets (Coal and Wind) that included financial modeling, forecasting, and market analysis.
- Assisted in evaluating and submitting bids to various markets in the US. This included bids for Day Ahead and Real Time markets, Reserve markets, Financial Transmission Rights and Capacity markets.

#### Renewable Energy

- Contributed to Wind integration at ISO-NE. This included market and operations enhancements in addition to market testing and operator training.
- Assisted in the valuation of new Wind assets in the MISO and ERCOT markets.
- Implemented real time dispatch and curtailment logic at Edison Mission Energy's Big Sky (PJM Market) and Goat Wind (ERCOT) assets.
- Currently providing NEPOOL-GIS third-party verification services for NEPOOL-GIS for hydroelectric, landfill gas, solar, and wind facilities.

#### Stakeholder Process

- Assisted in presenting enhancements to the Financial Transmission Rights market at the ISO-NE's market committee.
- Conducted data analyses and evaluations to correctly implement proposed Market Rules for the Forward Reserve and Forward Capacity markets.

 Attended multiple ISO-NE Market Committee meetings as a subject matter expert and responded to market participant questions related to proposed market rule changes.

#### **EMPLOYMENT HISTORY**

Daymark Energy Advisors, Inc. (formerly La Capra Associates)  Consultant	Boston, MA 2013 – Present
Edison Mission Marketing & Trading	Boston, MA
President and Principal Consultant	2012 – 2013
ISO New England, Inc.	Holyoke, MA
Senior Market Operations Analyst	2011 – 2012
Market Operations Analyst	2008 – 2011
Associate Market Operations Analyst	2007 – 2008

#### **EDUCATION**

University of Massachusetts	Amherst, MA	
Masters of Business Administration	2011	
Rutgers School of Engineering	New Brunswick, NJ	
M.S. Electrical and Computer Engineering	2007	
B.S. Electrical and Computer Engineering	2005	
Minor Degree in Economics	2005	
United States Navy	Norfolk, VA	
Gas System Engineering School	2000	

#### **PRESENTATIONS**

- Challenges of Contingency Analysis in the Day and Real Time Markets presented at the AREVA Winter Conference, Seattle, WA, 2009.
- Unit Commitment and Dispatch- Wholesale Electricity Markets (WEM 201) presented at ISO-NE Training facility, Northampton, MA, 2010.

#### **EXPERT TESTIMONY**

<u>Forum</u>	On Behalf of:	<u>Topic</u>
State of Connecticut Public Utilities Regulatory Authority (Docket No. 15- 02-6)	Yale University	Expert testimony in regards to potential rate payer benefits as a result of the replacement of Yale's aging Central Cogeneration Power Plant. April 2015.

#### Independent Verifier Attachment

#### Appendix D

i. Daymark Energy Advisors (formerly known as La Capra Associates, Inc.)
Dimitrios Kordonis
One Washington Mall, 9<sup>th</sup> Floor
Boston, MA 02108
Dimitrios: 617-778-2430
dkordonis@daymarkea.com
www.daymarkea.com

Daymark Energy Advisors (formerly known as La Capra Associates, Inc.) is a full-service, independent energy consulting firm. Daymark Energy Advisors has been in the energy business for over 35 years.

Daymark Energy Advisors was accepted on July 12, 2010 as an Independent Verifier by the MA DOER. Daymark Energy Advisors has provided similar services to MWRA, Ameresco for hydro, LFG, and solar facilities, and Raap Solar farm.

- ii. Daymark Energy Advisors is an independent employee owned energy consulting firm and does not have any ownership stake in the wind project associated with Narragansett Bay Commission (NBC). Daymark Energy Advisors has neither stock nor equity interests in the NBC wind project. In addition, NBC has no ownership or equity interest in Daymark Energy Advisors. Both companies/entities are independent of one another.
- Daymark Energy Advisors is independent of the NBC wind project. In the event Daymark Energy Advisors did take an ownership interest greater than 10% of the Generating Unit, then Daymark Energy Advisors would no longer be able to provide Independent Verifier services to the project. If that event were to occur, then a new Independent Verifier would be retained by NBC.

Daymark Energy Advisors is contracted by the Applicant to provide Independent Third Party Meter Reader services, and will be compensated for its services to verify and read the meter at NBC Wind Farm and to enter metering reading data into the NEPOOL GIS system. Compensation is to include costs for Daymark Energy Advisors time to inspect the meters and conduct periodic meter reads, perform data validation, and enter data into the NEPOOL GIS.

iv. Daymark Energy Advisors will verify and read the meter at least once per year.

Daymark Energy Advisors will enter into the NEPOOL GIS the quantity of energy

production in the applicable time period. Daymark Energy Advisors is currently registered as an Independent Verifier in the NEPOOL GIS system.