

January 22, 2014

**VIA HAND DELIVERY & ELECTRONIC MAIL**

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

**RE: Docket Nos. 4277 and 4288  
Distributed Generation (“DG”) Standard Contracts Program  
Enrollment Application and Enrollment Process Rules and Standard Contracts**

Dear Ms. Massaro:

On behalf of National Grid,<sup>1</sup> enclosed are the Company’s proposed Enrollment Applications and Enrollment Process Rules for use in the 2014 DG Standard Contracts program. The proposed enrollment rules and applications are largely the same as those approved and used during the 2013 program year. However, they have been amended to reflect the Rhode Island Office of Energy Resources’ proposed 2014 program-year classes, ceiling prices, and targets, which were filed with the Rhode Island Public Utilities Commission on December 16, 2014. In addition, the Company’s proposed rules and application contain the following limited revisions: (1) a more detailed description of the Performance Guarantee Deposit highlighting the payment deadlines that must be adhered to in order to execute a standard contract offer; (2) a provision regarding postponement, withdrawal, or cancelation of an enrollment; (3) a simplified funding-source information request; and (4) non-substantive typographical, formatting or stylistic edits. This filing consists of a marked version showing revisions as well as a clean copy of the proposed rules and applications.

Thank you for your attention to this transmittal. If you have any questions, please feel free to contact me at (401) 784-7667.

Very truly yours,



Thomas R. Teehan

Enclosures

cc: Docket 4277 and 4288 Service Lists  
Steve Scialabba

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<sup>1</sup> The Narragansett Electric Company d/b/a National Grid (“National Grid” or the “Company”).

Certificate of Service

I hereby certify that a copy of the cover letter and/or any materials accompanying this certificate were electronically transmitted and sent via U.S. Mail to the individuals listed below. Copies of this filing were hand delivered to the RI Public Utilities Commission and to the RI Division of Public Utilities and Carriers.

\_\_\_\_\_  
Joanne M. Scanlon

January 22, 2014  
Date

**Docket No. 4288 – Office of Energy Resources Filings: 1) Proposed Distributed Generation (DG) Standard Contract Act Classes and Ceiling Prices; and 2) Proposed DG Standard Contract; and**

**Docket No. 4277 – National Grid National Grid – Distributed Generation Enrollment Application & Enrollment Process Rules**

**Service Lists updated 1/16/14**

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# **REDLINED VERSION**

# Rhode Island Renewable Distributed Generation Standard Contract Enrollment Application and Enrollment Process Rules

## I. Introduction and Overview

### 1.1 Purpose of the Enrollment

The Narragansett Electric Company d/b/a National Grid (“National Grid”) or the “Company”), is seeking applications to enter into standard contracts for the supply of electric capacity and energy and Renewable Energy Certificates and related attributes (including Certificates issued in the New England Power Pool Generation Information System) (collectively, “RECs”) from eligible Distributed Generation projects pursuant to Chapter 26.2 of Title 39 of the Rhode Island General Laws, entitled Distributed Generation Standard Contracts Act (the “Act”), and the solicitation and enrollment process rules promulgated under the Act. In addition, National Grid is conducting this enrollment in accordance with the Rules and Regulations Governing Long-Term Contracting Standards for Renewable Energy (the “Regulations”) promulgated under Chapter 26.1 by the Rhode Island Public Utilities Commission (“Commission”), which became effective January 28, 2010.<sup>1</sup> In the enrollment periods for the current program year, National Grid is soliciting capacity, energy, RECs, and all other environmental attributes and market products that are available or may become available from Distributed Generation facilities pursuant to standard contracts for fifteen (15)-year terms.

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### 1.2 Statutory Framework

Pursuant to the provisions of the Act, National Grid is required to procure 10% of the minimum long-term contract capacity under the long-term contracting standard for renewable energy in section 39-26.1-2, or 9 MW, based on annual class targets set by the Board<sup>2</sup> and approved by the Rhode Island Public Utilities Commission (“Commission”). National Grid shall enter standard contracts for an aggregate nameplate capacity of at least 40 MW of Distributed Generation projects by the end of 2014, as set forth in the following four (4) year schedule:

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- By December 31, 2011: a minimum of five megawatts (5 MW) nameplate capacity
- By December 31, 2012: a minimum aggregate of twenty megawatts (20 MW) nameplate capacity

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<sup>1</sup> Except as expressly differentiated in the Act, the standard contracts entered into shall be treated for all purposes as long-term contracts entered into under the provisions of the long-term contracting standards for renewable energy found in chapter 26.1 of Title 39 of the Rhode Island General Laws, and all such provisions shall apply to such contracts. R.I.G.L. § 39-26.2-9.

<sup>2</sup> The Distributed Generation Standard Contract Board, or if not yet constituted, the Rhode Island Office of Energy Resources.

- By December 31, 2013: a minimum aggregate of thirty megawatts (30 MW) nameplate capacity
- By December 31, 2014: a minimum aggregate of forty megawatts (40 MW) nameplate capacity

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Thus, under a single enrollment in 2011, the initial program year, National Grid entered standard contracts for a minimum of 5 MW nameplate capacity. Thereafter, the Company must conduct three enrollments annually. Each enrollment will be open for a two-week period. National Grid is not required to enter into more than one-third of the annual target per enrollment, with the exception of the 2011 program year. The attached Schedule 1 sets out a schedule of anticipated dates for the 2014 Enrollment process. The classes and annual targets for the 2014 program year are listed in Schedule 2 of this application.

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### 1.2.1 Applications

Applicants are required to complete and submit a short-form application ("Application") which Application shall require the applicant to provide the project owner's identity and the project's proposed location, nameplate capacity, and renewable energy class and, as described in Section II below, allows for additional information including information relative to the permitting, financial feasibility, ability to build, and timing for deployment of the proposed projects. In addition, all applicants are required to bid a fixed bundled price, not to exceed the applicable standard contract ceiling price, for the sale of the energy, capacity, renewable energy certificates, and all other environmental attributes and market products that are available or may become available from the distributed generation facility on a fixed per kilowatt-hour basis for the output of the project. The Application to be used by facilities with a nameplate capacity greater than 500 kW is attached as Attachment A1. The Application to be used by facilities with a nameplate capacity of 500 kW or less is attached as Attachment A2.

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Successful applicants will be selected in accordance with the process set forth in this application, which encompasses the solicitation and enrollment process rules. Standard contracts will be finalized between National Grid and successful applicants, based on bid prices and annual targets for each renewable energy technology class set by the Board and approved by the Commission. A blank Standard Contract, which has been approved by the Commission, is included in this application as Appendix B. The Standard Contract to be used by facilities with a nameplate capacity greater than 500 kW is attached as Attachment B1. The Standard Contract to be used by facilities with a nameplate capacity of 500 kW or less is attached as Attachment B2. Applicants are responsible for reading and understanding the Standard Contract to the extent necessary to submit an application, and to promptly execute this contract if selected in the enrollment. There will be no exceptions to the Standard Contract.

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### 1.2.2 Eligibility Requirements

To be eligible under this enrollment, a distributed generation facility must be a "newly developed renewable energy resource" under the Long-Term Contracting Standard and

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the Regulations. A “newly developed renewable energy resource” is defined as an electric generation unit that uses exclusively an eligible renewable energy resource (as defined under R.I.G.L. § 39-26-5 and Section 5 of the Rules and Regulations governing the Implementation of a Renewable Energy Standard, effective July 25, 2007), that has neither begun operation, nor have the developers completed financing for construction.<sup>3</sup> The eligible technologies include biogas generated as a result of anaerobic digestion, but specifically exclude all other listed biomass fuels. Further, the unit must be located in the Narragansett Electric Company ISO-NE load zone, with a nameplate capacity no greater than three (3) MW, and be connected to the electric distribution company’s power system.

a. Small Distributed Generation Projects

Small Distributed Generation projects must bid a fixed bundled price for the sale of energy, capacity, and renewable energy certificates (“RECs”) and all other environmental attributes and market products that are available or may become available from the distributed generation facility on a per kilowatt-hour basis for the output of the project for a contract term of fifteen (15) years. If there are more projects than what is specified for a class target at the same price, the electric distribution company shall review the applications submitted and select first those projects that appear to be the furthest along in development and likely to be deployed in consultation with the Office of Energy Resources. Selection will be based on the lowest price received and on competitive non-price scoring, but not to exceed the applicable ceiling price, provided the applicants meet the minimum threshold requirements set forth in this application. Small Distributed Generation Projects must have a nameplate capacity within the following: Solar: fifty kilowatts (50 KW) to five hundred kilowatts (500 KW); Wind: fifty kilowatts (50 KW) to one and one-half megawatts (1.5 MW); [Hydropower: fifty kilowatts \(50 KW\) to five hundred kilowatts \(500 KW\)](#); [Anaerobic Digestion: fifty kilowatts \(50 KW\) to five hundred kilowatts \(500 KW\)](#); and Other Technologies: 1 MW. The applicant must submit an affidavit confirming that the project is not a segment of a larger project.

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b. Large Distributed Generation Projects

Large Distributed Generation projects must bid a fixed bundled price for the sale of energy, capacity, and renewable energy certificates (“RECs”) and all other environmental attributes and market products that are available or may become available from the distributed generation facility on a per kilowatt-hour basis for the output of the project for a contract term of fifteen (15) years. Alternative Pricing is allowed for a contract term different than fifteen (15) years, but the Applicant must demonstrate why the alternative term is appropriate, and if the Company agrees to the different term, it must be approved by the Commission. Selection will be based on the lowest price received and on competitive non-price scoring, but not to exceed the applicable ceiling price, provided the applicants meet the minimum threshold

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<sup>3</sup> Under Section 3.16 of the Regulations, projects located within the State of Rhode Island which obtained financing on or after January 1, 2009, which have not begun operation, would also be considered a “newly developed renewable energy resource.”



requirements set forth in this application. Large Distributed Generation Projects are larger than the Small Distributed Generation Project sizes set forth above, but are no greater than 3 MW.

## II. Bid Evaluation and Selection Criteria and Process

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### 2.1 Overview of Bid Evaluation and Selection Process

Applications received by National Grid will be subject to a consistent and defined review, evaluation, and selection process. All projects will be evaluated only against other projects submitted in the same approved class for that current enrollment. The first stage consists of a review of whether the bids satisfy specified eligibility and minimum threshold requirements. National Grid will conduct any additional evaluation as required, consistent with the requirements set forth above, and select applicants for execution of Standard Contracts. Consultation with the Rhode Island Office of Energy Resources and/or the Rhode Island Division of Public Utilities and Carriers may also be utilized in this further assessment. Applicants selected by National Grid will be required to indicate in writing whether they intend to proceed with their proposals within five business days of being notified, and to execute contracts within two business days thereafter. Thus, the selected Applicant must pay the performance guarantee deposit and sign the contract within seven (7) business days after a contract offer has been made.

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### 2.2 Interconnection Progress Prior to Enrollment

The Act requires that the distributed generation facility owner be liable for the cost of interconnection, and sufficient progress in the interconnection process must be made prior to the enrollment. Project owners must have submitted an Interconnection Application and have a completed Feasibility study as defined in the Rhode Island Distributed Generation Interconnection Act and The Narragansett Electric Company Standards for Connecting Distributed Generation. Project owners must provide copies of their Interconnection application and Feasibility Study with this application for enrollment. If the project has a completed Impact study, this would also be acceptable, since it is a more comprehensive study.

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Information regarding Interconnection of Generators in Rhode Island can be found at the following link:

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[https://www.nationalgridus.com/narragansett/business/energyeff/4\\_standard\\_interconnection.asp](https://www.nationalgridus.com/narragansett/business/energyeff/4_standard_interconnection.asp)

### 2.3 Minimum Threshold Requirements

The Distributed Generation Standard Contracts Act requires that Standard Contracts include a requirement that distributed generation facility owners make a performance

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guarantee deposit to National Grid<sup>4</sup> paid at the time of contract execution. The performance guarantee deposit can be as little as \$500 or as much as \$75,000 depending on the output of the project (i.e., projected annual energy output). The deposit must be received and confirmed by National Grid within seven (7) business days after a project is awarded a contract. There are no exceptions to this requirement. Applicants should be prepared to make a deposit when submitting applications into any enrollment. If payment of the required performance guarantee deposit is not received by the date required, the Company will withdraw the offer and not proceed with a Standard Contract with the Applicant in that enrollment. See Schedule 1 for the anticipated dates associated with this upcoming enrollment.

As a second threshold requirement, should the distributed generation facility not produce ninety percent (90%) of the output proposed in its enrollment application within eighteen (18) months of contract execution, the contract is automatically voided, and the performance guarantee deposit is forfeited (note: the same conditions apply to an eligible small-scale hydropower distributed generation facility that has not generated ninety percent (90%) of the output proposed in its enrollment application within forty-eight (48) months after contract execution). It is a threshold requirement, therefore, that the construction schedule for a project lead to accomplishment of this critical milestone within eighteen months of contract execution. The Proposed Hourly Output,<sup>5</sup> which is the maximum amount of energy and related products available for Delivery to National Grid at the Point of Delivery (kWh AC per hour)<sup>6</sup>, must be demonstrated for at least four complete hours (which do not need to be four consecutive hours), which amount shall be adjusted to the extent required to reflect a lack of availability of energy (such as lower than expected wind speed or seasonally reduced insolation), and other factors, as proposed by the Applicant's engineer and accepted by National Grid in its reasonable discretion (the "Output Demonstration").

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As a third threshold requirement, project developers submitting applications must have also submitted applications for interconnection and received a Feasibility study, or an Impact study, which should be submitted as part of the application.

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Applications that meet all the eligibility requirements and the above minimum threshold requirements will be further evaluated to determine compliance with a broader set of requirements, which have been designed to screen out proposals that are insufficiently mature from a project development perspective; lack technical viability; or fail to satisfy

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<sup>4</sup> The performance guarantee deposit is fifteen dollars (\$15.00) for small distributed generation projects and twenty-five dollars (\$25.00) for large distributed generation projects for every renewable energy certificate (REC) estimated to be generated per year under the contract, but at least five hundred dollars (\$500) and not more than seventy-five thousand dollars (\$75,000), paid at the time of contract execution. Should this milestone be achieved, the deposit shall be refunded, without interest, on a prorated basis of renewable energy actually delivered over the course of the first year of the project's operation.

<sup>5</sup> The Proposed Hourly Output is the maximum amount of energy and related products available for delivery to National Grid at the Point of Delivery (kWh AC per hour). See page 3 of Appendix A.

<sup>6</sup> If net metering, distinguish between total project generation and deliveries to the electric distribution system.

minimum standards for bidder experience and ability to finance the proposed project. The categories of information necessary to complete this further evaluation are set forth below.

- Energy Resource Plan
- Financial/Legal Capability
- Site Control
- Permit Acquisition Plan
- Interconnection
- Technical/Engineering
- Project Schedule
- Project Management and Experience
- Economic Benefit to Rhode Island

National Grid is interested in projects that can demonstrate the ability to develop, permit, finance, and construct the proposed project within the required eighteen-month schedule.

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Applicants must use this application to provide responses. Applicants are requested to provide all reasonably available information in each section of the application. If any of the information requested is inconsistent with the type of technology or product proposed, or otherwise unavailable, the Applicant should include "N/A" and describe the basis for this designation. It is anticipated that larger projects may provide a higher level of detail in the responses than smaller projects. It is emphasized, however, that Applicants who do not provide complete and credible information in any of the above categories will be scored accordingly in the Scoring Process. The forms are included in this Application in MS Word format as Appendix A.

## 2.4 Project Scoring

In conducting evaluations of each project, National Grid will employ the scoring methodology described in Schedule 3. The non-price evaluation criteria are designed to assess the likelihood of a project coming to fruition based on various factors critical to successful project development. The objectives of the criteria are to provide an indication of the feasibility and viability of each project and the likelihood of meeting the proposed commercial operation date. Applications that can demonstrate, based on the current status of project development and past experience, that the project will likely be successfully developed and operated as proposed will have a higher likelihood of success.

For all Distributed Generation projects, price is weighted at eighty percent (80%) and non-price factors at twenty percent (20%).

National Grid reserves the right to reject any project not receiving a minimum score in the non-price evaluation, regardless of the completion date or pricing.

If the situation arises where multiple projects share the same interconnection facilities, and in the event that such projects receive equivalent scores in the evaluation, the project with the earliest interconnection application will be taken first. In addition, National Grid will reject any application for which interconnection is not technically feasible.

## 2.5 Projects at Customer Sites Involving Net Metering

A distributed generation project that is also being employed by a customer for net metering purposes may submit an application to sell the excess output from the project.<sup>7</sup> In this case, the applicant must be the project owner. The class in which the project is submitted is determined by the total project size, and not by the excess output offered for sale under a Standard Contract. The application forms in Appendix A require that both the project size and the excess output being offered for sale be specified.

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## 2.6 Coordination with Annual Solicitations under the Long-Term Contracting Standard

The DG Enrollment process is separate and distinct from the annual competitive solicitations conducted under the Long-Term Contracting Standards. National Grid will provide reports to the Commission on both the solicitation and the annual enrollment process in order to track compliance with the Long-Term Contracting Standard. Projects submitted, but not yet selected, in an annual solicitation under the Long-Term Contracting Standard, may be submitted in a Distributed Generation enrollment. In this case, should the submitted pricing in one of the large DG classes be higher than that submitted in the competitive solicitation, a fully documented explanation must be provided. Additionally, the Applicant agrees that entering into a DG Standard Contract will automatically rescind the Applicant's bid relative to that project in the annual solicitation under the Long-Term Contracting Standard.

## 2.7 Delivery of Energy into ISO-NE Market

Energy will be delivered to National Grid in the Narragansett Electric Company ISO-NE load zone at the delivery node associated with the distributed generator. This will be accomplished through registration of the generator as a generation asset and assignment of the energy to National Grid.

## 2.8 Participation in ISO-NE Forward Capacity Market (FCM)

National Grid shall be the "Project Sponsor" for all Large Distributed Generation Facilities and may qualify the Facility as an Existing Capacity Resource in the Forward Capacity Market (FCM) after the Commercial Operation Date and participate in every Capacity Commitment Period in the FCM with respect to the Facility. National Grid also

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<sup>7</sup> In such case, at the election of the self-generator, all the renewable energy certificates pertaining to the energy consumed on site may be sold on a month-to-month basis outside of the terms of the standard contract.

reserves the right to be the "Project Sponsor" for Small DG Facilities, after consultation with the Division and the Board. If and when National Grid participates as "Project Sponsor" on behalf of any Facility, that Facility must support National Grid, as required, to qualify the Facility as an Existing Capacity Resource in the Forward Capacity Market. Generation owners are required to take commercially reasonable actions to maximize performance against any FCM Capacity Supply Obligations.

## 2.9 RPS Qualification and NEPOOL Generation Information System ("GIS") Certificates

The Distributed Generation projects must obtain qualification as a renewable resource pursuant to the Rhode Island Renewable Energy Standard ("RES"), and it must register as a Participant Account Holder with the NEPOOL-GIS. Once qualified, National Grid must be designated to receive all of the RECs produced by the project and tracked in the NEPOOL-GIS<sup>8</sup> under the operating rules found at [http://www.iso-ne.com/committees/comm\\_wkgrps/mrkt comm/geninfo\\_sys/operating/index.html](http://www.iso-ne.com/committees/comm_wkgrps/mrkt comm/geninfo_sys/operating/index.html)

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## 2.10 Official Contact for the Enrollment

Any questions on the Enrollment should be directed to the attention of the Official Contact for National Grid at the address listed below:

Jim Calandra  
Environmental Transactions

Questions may be submitted to the Official Contact at following email address: [renewablecontracts@nationalgrid.com](mailto:renewablecontracts@nationalgrid.com)

## 2.11 Submittal of Enrollment Applications

The Standard Contract Enrollment Application and Appendices are posted on the National Grid [Rhode Island Distributed Generation Standard Contracts](#) website.

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[https://www.nationalgridus.com/narragansett/business/energyeff/4\\_dist\\_gen.asp](https://www.nationalgridus.com/narragansett/business/energyeff/4_dist_gen.asp)

Completed applications should be submitted electronically to [renewablecontracts@nationalgrid.com](mailto:renewablecontracts@nationalgrid.com), following the instructions on the site for the Rhode Island Standard Contract Enrollment for renewable energy. Electronic submittal will assure that the time of submittal is documented.

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<sup>8</sup> The Rhode Island Distributed Generation Standard Contract Act requires that an electric meter that conforms with standard industry norms be installed to measure the electrical energy output of the distributed generation facility, and require a system or procedure by which the distributed generation facility owner shall demonstrate creation of renewable energy credits, in a manner recognized and accounted for by the GIS; such demonstration of renewable energy credit creation to be at the distributed generation facility owner's expense.

## 2.12 Modification or Cancellation of the Open Enrollment

Following the submission of applications, National Grid may request additional information from Applicants at any time during the process. Applicants that are not responsive to such information requests may be eliminated from further consideration. National Grid may, at any time up to execution of Standard Contracts, postpone, withdraw and/or cancel this enrollment; alter, extend or cancel any due date; and/or, alter, amend, withdraw and/or cancel any requirement, term or condition of this enrollment, any and all of which shall be without any liability to National Grid. By submitting an Application, an Applicant agrees that the sole recourse that it may have with respect to the conduct of this enrollment is by submission of a complaint or similar filing to the Commission, in a relevant docket pertaining to this Open Enrollment.

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### Schedule 1

Event	Anticipated Dates
Enrollment begins	<a href="#">March 10, 2014</a> – 9am EPT
Due Date for Submission of Applications	<a href="#">March 21, 2014</a> – 5pm EPT
Execute Contracts	<a href="#">April 18, 2014</a>
File Contracts with <a href="#">the Commission</a>	<a href="#">April 25, 2014</a>

Note: Schedule 1 to be updated as required for each enrollment period.

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**Schedule 2**  
**Classes and Targets Applicable to Current Enrollment Period**

Class Nameplate (Eligible Project Size)	Target Nameplate	Ceiling Price (cents/kWh)
Wind (50 kW – 1500 kW) <u>50-999 kW</u> 1,000-1,500 kW	<u>1,500 kW</u> In Total	<u>19.95</u> <u>20.55</u>
<u>Small Scale Hydropower</u> (50 – <u>500 kW</u> )	<u>500 kW</u>	<u>18.85</u>
<u>Small Solar-PV<sup>9</sup></u> ( <u>50 – 200 kW DC</u> )	<u>500 kW</u>	<u>27.10</u>
<u>Medium Solar-PV</u> ( <u>201 – 500 kW DC</u> )	<u>1,400 kW</u>	<u>27.30</u>
Anaerobic Digestion ( <u>50 – 500 kW</u> )	<u>500 kW</u>	<u>19.55</u>
<u>Large Solar PV</u> (501 kW – 3,000 kW) <sup>10</sup>	<u>1,250 kW</u>	<u>23.50</u>

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Note: Schedule 2 to be updated as required for each enrollment period.

<sup>9</sup> The small solar class has the option of applying in either the small or the medium scale class, but not both. The applicant must indicate on the application the class under which the proposed project is applying, and the proposed price must be below the applicable ceiling price.

<sup>10</sup> Any unused allocation from a specific class shall roll over into the next open enrollments for that same class; with exception to the Small Solar (50 – 100 kW). Any unused allocation from the Small Solar (50 – 100kW) class is to be added to the Large Solar PV/Anaerobic Digestion class in future enrollments.



**Schedule 3**  
**Project Evaluation and Scoring Methodology**

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**Non-Price Scoring for All Projects (20 points)**

Non-price scoring is the same methodology employed National Grid in the initial competitive solicitation, and documented in the report on that solicitation, filed with the RI PUC on April 11, 2011. The scoring methodology is summarized as follows, and is based on the responses in Appendix A.

<b>Evaluation Factors</b>	<b>Max Points</b>	<b>Criteria Considered in Each Factor</b>
<b>A. Siting and Permitting</b>	4.0	<ul style="list-style-type: none"> <li>• Extent to which site control has been achieved and acquisition of any necessary real property rights, including right of ways (1.5 points)</li> <li>• Identification of required permits and approvals and status of plan to obtain permits and approvals (1.5 points)</li> <li>• Community relations/support (1.0 points)</li> </ul>
<b>B. Project Development Status and Operational Viability</b>	6.0	<ul style="list-style-type: none"> <li>• Reasonableness of critical path schedule and demonstrated ability to meet major milestones (1.5 points)</li> <li>• Credibility of energy resource plan (1.5 points)</li> <li>• Commercial access to and reliability of the proposed technology (1.0 points)</li> <li>• Progress in interconnection process (2.0 points)</li> </ul>
<b>C. Experience and Capability of Bidder and Project Team</b>	3.0	<ul style="list-style-type: none"> <li>• Project development experience (1.0 points)</li> <li>• Project financing experience (1.0 points)</li> <li>• Operations and maintenance experience (1.0 points)</li> </ul>
<b>D. Financing</b>	4.0	<ul style="list-style-type: none"> <li>• Credibility of the financing plan (2.0 points)</li> <li>• Financial strength of the bidder (2.0 points)</li> </ul>
<b>E. Economic Benefit</b>	3.0	<ul style="list-style-type: none"> <li>• Project provides direct employment benefits (1.0 points)</li> <li>• Project provides indirect employment benefits (1.0 points)</li> <li>• Project provides tax revenues or other similar revenues (1.0 points)</li> </ul>
<b>Total</b>	<b>20.0</b>	

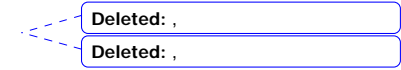
**Score on Submitted Price for all Projects (80 points)**

For each class, the project with the lowest price relative to the ceiling price will receive 80 points. For other projects, one point will be deducted for each \$MWh higher than the lowest submitted price.

**Total Scoring**

<b>All Projects</b>	
Price Scoring	80
Non-Price Scoring	20
Total	100

The scoring methodology is intended to discriminate between a project with competitive pricing and a “credible” project with competitive pricing that is most likely to be successfully deployed.



National Grid reserves the right to reject any project not receiving a minimum score in the non-price evaluation, regardless of the completion date or pricing.<sup>11</sup>

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<sup>11</sup> There is the possibility that projects might meet (or even exceed) the threshold requirements, yet not make a credible demonstration that the project is likely to be completed and operated as proposed. It is not feasible to establish such a score in advance, as non-price scoring as a general matter is often driven by how projects compare on a relative basis. It would be expected, however, that some projects may clearly rank well below others in the same or similar classes.

**Rhode Island Renewable Distributed Generation  
Standard Contract Enrollment Application  
Appendix A1  
(TO BE USED ONLY FOR FACILITIES WITH A  
NAMEPLATE CAPACITY GREATER THAN 500 KW)**

**1. Authorized Representative's Signature Certification Form**

The undersigned is a duly authorized representative of the Project listed below. The Representative hereby certifies that all the statements and representations made in this Application are true and accurate to the best of the Applicant's knowledge. The Applicant represents that it understands the requirements, terms and conditions of the Standard Contract. The Applicant certifies under the pains and penalties of perjury that the project submitted is not a segment of a larger newly developed project, which would not otherwise fall under the provisions of this Application.

Submitted by: \_\_\_\_\_  
(Exact Legal Entity)

Project Owner: \_\_\_\_\_  
(If different than above)

Signature of Authorized Representative: \_\_\_\_\_

Title: \_\_\_\_\_

Date Signed: \_\_\_\_\_

**2. Project Summary/Contact Information**

**Note: unless otherwise noted, all electric capacity and energy figures provided should be AC**

Applicant Name: \_\_\_\_\_ Formatted Table

Project Name: \_\_\_\_\_

Project Class ([See Schedule 2 of Enrollment Application & Process Rules](#)): \_\_\_\_\_ Deleted: ¶  
(See Schedule 2)

Enrollment Period: \_\_\_\_\_

Estimated Commercial Operation Date: \_\_\_\_\_

Project Site/Location City or Town: \_\_\_\_\_

Proposed Interconnection Point: \_\_\_\_\_

Date of Interconnection Application: \_\_\_\_\_

Interconnection Application No.: \_\_\_\_\_

Proposed Point of Delivery: \_\_\_\_\_

Project Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Facsimile Number: \_\_\_\_\_

Total capacity of the Project (MW):  
Gross: \_\_\_\_\_  
Nameplate DC Rating (if solar): \_\_\_\_\_  
Net: \_\_\_\_\_

Proposed Hourly Output is the maximum amount of energy and related products available for Delivery to National Grid at the Point of Delivery (kWh AC per hour)<sup>1</sup>:

\_\_\_\_\_

Expected Annual Energy Production to be delivered to National Grid at the Point of Delivery (MWh AC):

\_\_\_\_\_

Estimated Net Capacity Factor (%):

\_\_\_\_\_

Study Provided to Support Estimated Generation:

\_\_\_\_\_ (Yes)                      \_\_\_\_\_ (No)

If Yes, Name of Firm Who Prepared the Study:

\_\_\_\_\_

Expected Annual Availability (%):

\_\_\_\_\_

Term of Contract:

\_\_\_\_\_

Estimated Equipment Life:

\_\_\_\_\_

Equipment Manufacturer:

\_\_\_\_\_

Project Type:  
(Check as applicable)

\_\_\_\_\_ Non-Firm Intermittent Energy

\_\_\_\_\_ Baseload Energy

Performance Guarantee Deposit <sup>2</sup>:

\_\_\_\_\_

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<sup>1</sup> If net metering, distinguish between total project generation and deliveries to the electric distribution system.

<sup>2</sup> The performance guarantee deposit is fifteen dollars (\$15.00) for small distributed generation projects and twenty-five dollars (\$25.00) for large distributed generation projects for every renewable energy certificate (REC) estimated to be generated per year under the contract, but at least five hundred dollars (\$500) and not more than seventy-five thousand dollars (\$75,000), paid at the time of contract execution. Should this milestone be achieved, the deposit shall be refunded, without interest, on a prorated basis of renewable energy actually delivered over the course of the first year of the project's operation.

### 3. Pricing Information

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Pricing must be submitted as a fixed bundled price for the sale of energy, capacity, and renewable energy certificates (RECs) on a per kilowatt-hour (\$/kWh) basis for the output of the project over the contract term of fifteen (15) years.

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Price<sup>3</sup> (\$/kWh): \_\_\_\_\_ (to five decimal places)

Alternative Pricing is allowed for a contract term different than fifteen (15) years, but the Applicant must demonstrate why the alternative term is appropriate. In addition, the Standard Contract would not be applicable for a longer term without explicit Commission approval.

Alternative Contract Term (years): \_\_\_\_\_

Alternative Price (\$/kWh): \_\_\_\_\_

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<sup>3</sup>Projects submitted, but not yet selected, in an annual solicitation under the Long-Term Contracting Standards, may be submitted in a Distributed Generation enrollment. In this case, should the submitted pricing in one of the large DG classes be higher than that submitted in the competitive solicitation, a fully documented explanation must be provided here in Section 3. Additionally, the Applicant agrees that entering into a DG Standard Contract will automatically rescind the Applicant's bid relative to that project in the annual solicitation under the Long-Term Contracting Standards.

**4. Operational Parameters**

**Note: all electric capacity and energy figures provided should be AC**

Applicants should provide the following information requested regarding the project operational parameters and general project information. If information requested is not applicable to the specific technology, the Applicant should specify with an N/A.

4.1. Operating Characteristics

4.1.1. Nameplate Capacity: \_\_\_\_\_ MW

Net Capacity at Average Site conditions: \_\_\_\_\_ MW

4.1.2. Expected Capacity to be Qualified in the ISO-NE Forward Capacity Market<sup>4</sup>

Winter: \_\_\_\_\_ MW

Summer: \_\_\_\_\_ MW

4.1.3. Energy Generation

Expected Gross Annual Energy Production: \_\_\_\_\_ MWh/yr

Expected Net<sup>5</sup> Annual Energy Production: \_\_\_\_\_ MWh/yr

**Expected Peak and Off-Peak Monthly Production<sup>6</sup>**

Month	On-Peak (MWh/Month)	Off-Peak (MWh/Month)
January		
February		
March		
April		
May		
June		

<sup>4</sup> Expected capacity to be qualified in each capability period using the specific conventions applicable to the project type, i.e. conventional or intermittent generator. Please see the following ISO-NE rules, procedures and manuals for a more complete description: OP-14 Technical Requirements for Generators, Demand Resources, and Asset Related Demands; M-RPA Registration and Performance Auditing; M-20 Forward Capacity Market; M-11 Market Operation; and OP-18 Metering and Telemetering Criteria. The overall market tariff is Market Rule 1.

<sup>5</sup> If net metering, applicant must provide documentation of three-year average annual on-site usage/load of all customer accounts involved.

<sup>6</sup> If the level of generation is expected to vary over the life of the Standard Contract, the Applicant should provide an expanded table for the term of the Standard Contract, [the year 1 production must be included in the table above.](#)

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July		
August		
September		
October		
November		
December		
<b>Total</b>		

4.1.4. Annual Degradation Rate (if any) and basis for it: \_\_\_\_\_

4.1.5. Expected Operating Life of the Project (years): \_\_\_\_\_

4.2. Net Metering<sup>7</sup> (if applicable)

Three year average on-site usage/load: \_\_\_\_\_

4.3. Operating Mode

Proposed method/mode of Operation

Intermittent Only  
(Please define parameters of operation) \_\_\_\_\_

Must Run (at full load) \_\_\_\_\_

4.4. Maintenance Outage Requirements

Specify partial and complete planned outage requirements in weeks or days. Also, list the number of months required for the cycle to repeat (e.g., list time interval of minor and major overhauls, and the duration of overhauls.)

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<sup>7</sup> If net metering, attach completed Schedule B, Appendix A of R.I.P.U.C. Tariff No. 2075, The Narragansett Electric Company Net Metering Provision: Information Required for Application of Renewable Net Metering and Excess Renewable Net Metering Credits.



## 5. Energy Resource Plan

The Applicant is required to provide an energy resource or fuel supply plan for its proposed project, including supporting documentation. The fuel supply/energy resource profile information should be consistent with the type of technology/resource option proposed and the term of the Standard Contract proposed. The information requested is organized according to the type of project or energy resource. Applicants should respond only to relevant questions.

**The Energy Resource Plan should provide a reliable basis for translation of nameplate capacity to contract capacity under the Long-Term Contracting Standard.**

### Wind Energy Projects:

- Provide a summary of all collected wind data for the proposed site. Identify when the data was collected and by whom.
- Indicate where the data was collected and its proximity to the proposed site. Include an identification of the location for the anemometers and/or other wind speed measurement devices that were used to arrive at an assessment of the site generation capability.
- Provide (a) at least one year of hourly wind resource data, or (b) a wind resource assessment report from a qualified resource assessment firm or meteorologist, or (c) both. Include an analysis of the available wind data which addresses the relationship between wind conditions and electrical output.
- Provide a projection of gross and net annual energy production, including projections of average net hourly energy production, based on the wind resource data (a 12 x 24 energy projection).
- Provide a site-adjusted power curve. Each curve should list the elevation, temperature and air density used.
- Identify the assumptions for losses in the calculation of projected annual energy production, including each element in the calculation of losses.

### Biomass (limited to Anaerobic Digestion Biogas):

- Provide a resource assessment of available biomass fuel for the proposed project and its proximity to the project site.
- Provide a plan for obtaining the biomass fuel or feedstock, including a transportation plan.
- Provide any contracts or letters of intent to acquire and transport the biomass fuel or feedstock.
- Demonstrate that projected energy output for the project over the term of the contract is consistent with the energy supply available.

- Describe any contingencies or constraints that could affect the availability of fuel or the energy resource for the project and any contingency plans for meeting projected generation levels

Solar:

- Provide an assessment of the available solar incidence or resource and the projected production profile for the project. Identify anticipated generation by hour and month for at least a one-year period and describe any trends in generation capability over time (i.e. annual decline rate of expected output).
- Describe the methodology used to generate the projected generation and describe the in-house or consulting expertise used to arrive at the generation estimates. Use of "PV Watts," a solar PV generation estimation tool developed by the National Renewable Energy Laboratory (NREL) is acceptable, with sufficient explanation of chosen inputs to the calculator.

Hydro:

- Describe the project characteristics in terms of water flow (on a monthly basis) and head, and state the assumptions regarding seasonal variations, and a conversion of such flow into kilowatts and kilowatt-hours. Provide monthly flow duration curves based upon daily stream flow records.
- Identify if the project is run-of-river or has storage capability.
- If the project is an expansion of an existing project, (a) provide energy output estimates with and without the proposed expansion and (b) specify the quantity of energy that would qualify as RPS Class I Renewable Generation and the actions proposed to be taken by the Applicant to accomplish such qualification.

## 6. Financial/Legal

Applicants are required to demonstrate the financial viability of their proposed project. Applicants should provide all reasonably available information:

- 6.1. Provide a description of the structure of the Applicant's organization from a financial and legal perspective, including any general and limited partners, officers, directors, managers, members and shareholders, involvement of any subsidiaries supporting the project, and the providers of equity and debt during project development. Provide an organization chart showing the relationship between the equity participants and an explanation of the relationships.

6.2. Provide a summary of all sources of funding that will be applied to the project, including owner's equity, debt/equity financing, bank loans, government financing and grants. Include dollar amounts on all financing alternatives. The financing plan should also address the following:

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- Estimated development costs and arrangements for development financing
- Estimated construction costs and arrangements for construction financing

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6.3. Provide documentation illustrating the experience of the project sponsor in securing financing for projects of similar size and technology. For each project (up to the 10 most recent, if applicable) previously financed provide the following information:

- Project name and location
- Project type and size
- Date of construction and permanent financing
- Form of debt and equity financing

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<#>¶  
<#>Who will finance the project and how it will be financed¶  
<#>The project's planned permanent financial structure¶  
<#>Expected sources of debt and equity financing¶  
<#>Estimated construction costs and arrangements for construction financing¶  
<#>Describe any agreements entered into with respect to equity ownership in the proposed project and any other financing arrangement.¶  
¶  
In addition, the financing plan should address the financing of development costs. All Applicants are required to provide this information.¶

6.4. Provide evidence that the Applicant has the financial resources and financial strength to complete and operate the project as planned.

6.5. The Applicant should demonstrate its ability (and/or the ability of its credit support provider) to provide the required security, including its plan for doing so.

6.6. Provide a description of any current credit issues regarding the Applicant or affiliate entities raised by rating agencies, banks, or accounting firms.

- 6.7. Describe the role of the federal Production Tax Credit or Investment Tax Credit (or other incentives) on the viability of the project.
- 6.8. Applicants must disclose any pending or threatened litigation related to projects owned or managed by them or any of their affiliates in the United States.

## 7. Siting and Interconnection

This section of the response package addresses project location, siting, real property rights and interconnection issues. Applicants should ensure that the threshold criteria for siting are verified in their responses.

- 7.1. Provide a site plan including a map of the site that clearly identifies the location of the property, the location of the generation facility on the site, the total acreage, the anticipated interconnection point, and the relationship of the site to other local infrastructure, including transmission facilities, roadways, and water sources. In addition to providing the required map, provide a site layout plan which illustrates the location of all major equipment and facilities on the site.
- 7.2. Provide evidence of the right to use the site.
  - Does the project have a right to use the site (e.g., by virtue of ownership or land rights obtained from the owner)?
  - If so, please identify the means of site control.

Include any relevant documentation, e.g., lease agreement, option to lease, purchase agreement, option to purchase, or letter of intent regarding any of the foregoing.

- 7.3. Provide evidence that the project is consistent with the zoning of the site, and not subject to any other restrictions. If there are zoning or other restrictions, identify present and required zoning and/or land use designations, identify any restrictions, and provide a permitting plan and timeline to secure the necessary approvals.
- 7.4. Provide a description of the area surrounding the site including a description of the local zoning, flood plain information, existing land use and setting (woodlands, grasslands, agriculture, other).
- 7.5. Identify any real property rights (e.g., fee-owned parcels, rights-of-way or easements) that are required for access to the project or for interconnection. Describe the status of acquisition of real property rights, and describe the plan for securing the necessary real property rights, including the proposed timeline. Include these plans and the timeline in the overall project timeline.
- 7.6. Provide a copy of the interconnection application. Provide a copy of the Feasibility study and/or Impact study, as defined by the Rhode Island Distributed Generation Interconnection Act, completed to date. Provide a copy of an interconnection services agreement, if executed by the Applicant with respect to the proposed project.

- 7.7. Provide a copy of an electrical one-line diagram showing the interconnection facilities and the relevant transmission or distribution facilities.
- 7.8. Specify and describe the interconnection and transmission or distribution facilities that are required, including system control and protection.

## 8. Environmental Assessment and Permit Acquisition Plan

This section addresses environmental and other regulatory issues associated with project siting, development and operations.

- 8.1. Provide a list of all the permits, licenses, and environmental assessments and/or environmental impact statements required. If a Applicant has secured any permit or has applied for a permit, please identify in the response.
  - Provide a list of all Federal, state and local permits, licenses, and environmental assessments and/or environmental impact statements required to construct and operate the project.
  - Identify the governmental agencies which will issue or approve the required permits, licenses, and environmental assessments and/or environmental impact statements.
- 8.2. Provide the anticipated timeline for seeking and receiving the required permits, licenses, and environmental assessments and/or environmental impact statements, using the execution date of the Standard Contract as the starting point, if applicable. Include a project approval assessment which describes, in narrative form, each segment of the process, the required permit or approval, and the basis for projection of success by the milestone date. All requirements should be included on the project schedule in Section 11.
- 8.3. Provide a preliminary environmental assessment of the site and project, including both construction and operation. The Applicant should identify environmental impacts associated with the proposed project, any potential impediments to development, and its plan to mitigate such impacts or impediments. The analysis should address each of the major environmental areas presented below:
  - Site development
  - Transportation infrastructure
  - Air quality
  - Water resources/water quality
  - Ecology
  - Land use
  - Cultural resources
  - Previous site use
  - Noise level
  - Aesthetic/visual
  - Transmission and distribution infrastructure
  - Fuel supply access (if applicable)

- 8.4. Provide documentation identifying the level of public support for the project including letters from public officials, newspaper articles, etc. If the project sponsor has not yet initiated community outreach for the project, please describe any plans for such outreach activities.



## 9. Engineering and Technology; Commercial Access to Equipment

This section includes questions pertinent to the engineering design and project technology. Applicants should provide information about the specific technology or equipment including the track record of the technology and equipment.

- 9.1. Provide a reasonable but preliminary engineering plan which includes the following information:
  - Type of generation technology
  - If wind turbines, provide the turbine make and model, hub height, rotor diameter, and power curve
  - Major equipment to be used
  - Manufacturer of the equipment
  - Status of acquisition of the equipment
  - Whether the Applicant has a contract for the equipment. If not, describe the Applicant's plan for securing equipment and the status of any pertinent commercial arrangements
  - Equipment vendors selected/considered
  - History of equipment operations
  - If the equipment manufacturer has not yet been selected, identify in the equipment procurement strategy the factors under consideration for selecting the preferred equipment
- 9.2. If the Applicant has not yet selected the major generation equipment for the project, please provide a list of the key equipment suppliers under consideration.
- 9.3. Please identify the same or similar equipment by the same manufacturer that are presently in commercial operations including the number installed and installed capacity
- 9.4. For less mature technologies provide evidence (including identifying specific applications) that the technology to be employed for energy production is ready for transfer to the design and construction phases. Also, address how the status of the technology is being considered in the financial plan for the project.

## 10. Operation and Maintenance

Projects that can demonstrate that the maintenance plan, level of funding, and mechanism for funding will ensure reliable operations during the term of the contract are preferred.

- 10.1. Provide an operation and maintenance plan for the project that demonstrates the long term operational viability of the proposed project. The plan should include a discussion of the staffing levels proposed for the project, the expected role of the project sponsor or outside contractor, scheduling of major maintenance activity, and the plan for testing equipment.
- 10.2. Describe in detail the proposed O&M funding mechanism and funding levels to support planned and unplanned O&M requirements.
- 10.3. Describe the terms (or expected terms) of the warranties and/or guarantees on major equipment that the Applicant is seeking.
- 10.4. Describe the status of the project sponsor in securing any operation and maintenance agreements or contracts. Include a discussion of the sponsors plan for securing a medium-term or long-term O&M contract, including the expected provider of O&M services.
- 10.5. Provide examples of the Applicant's experience with O&M services for other similar projects.

## **11. Project Schedule**

Applicants are required to provide a complete critical path schedule for the project from the notice of selection of the project for contract consideration to the start of commercial operations. For each project element, list the start and end date.

Identify the elements on the critical path. The schedule should include, as a minimum, facility contracts, start of construction, construction schedule, siting, fuel supply (if applicable), financing, engineering and procurement, acquisition of real property rights, Federal, state and/or local permits, licenses, environmental assessments and/or environmental impact statements (including anticipated permit submittal and approval dates) and any other requirements that could influence the project schedule, and the Commercial Operation Date.

## 12. Project Management/Experience

This section is provided for Applicants to demonstrate project experience and management capability to successfully develop and operate the project proposed. Project teams should document any previous experience in projects of similar type, size and technology.

- 12.1. Provide an organizational chart for the project that lists the project participants and identifies the corporate structure, including general and limited partners.
- 12.2. For each of the project participants (including the Applicant, partners, A/E firm, EPC contractor and proposed contractors), provide statements that list the specific experience of the firm in developing, financing, owning, and operating generating facilities, other projects of similar type, size and technology, and any evidence that the project participants have worked jointly on other projects.
- 12.3. Provide a management chart that lists the key personnel dedicated to this project and provide biographies of the key personnel.
- 12.4. Provide a listing of all projects (up to the most recent 10 projects, if applicable) the project sponsor has successfully developed or that are currently under construction. Provide the following information as part of the response:
  - Name of the project
  - Location of the project
  - Project type, size and technology
  - Commercial operation date
  - Estimated and actual capacity factor of the unit for the past three years
  - Availability factor of the unit for the past three years
  - References, including the names and current addresses and telephone numbers of individuals to contact for each reference.
- 12.5. With regard to the Applicant's project team, identify and describe the entity responsible for the following:
  - Construction Period Lender, if any
  - Operating Period Lender and/or Tax Equity Provider, as applicable
  - Financial Advisor
  - Environmental Consultant
  - Owner's Engineer
  - EPC Contractor (if selected)
  - Interconnection Consultant
  - Legal Counsel

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**13. Direct Economic Benefits to Rhode Island**

Total construction cost

\$ \_\_\_\_\_

Estimated expenditures with local contractors?

\$ \_\_\_\_\_

Construction jobs created<sup>8</sup>

Number \_\_\_\_\_ Duration \_\_\_\_\_

How many jobs will be created in Rhode Island to support operation?

\_\_\_\_\_ Direct Jobs

\_\_\_\_\_ Indirect Jobs

Estimate of the annual property taxes or other similar revenues?

\$ \_\_\_\_\_

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<sup>8</sup> All job estimates should be expressed as full-time (annual) equivalents.

**Rhode Island Renewable Distributed Generation  
Standard Contract Enrollment Application  
Appendix A2  
(TO BE USED ONLY FOR FACILITIES WITH A  
NAMEPLATE CAPACITY OF 500 KW OR LESS)**

**1. Authorized Representative's Signature Certification Form**

The undersigned is a duly authorized representative of the Project listed below. The Representative hereby certifies that all the statements and representations made in this Application are true and accurate to the best of the Applicant's knowledge. The Applicant represents that it understands the requirements, terms and conditions of the Standard Contract. The Applicant certifies under the pains and penalties of perjury that the project submitted is not a segment of a larger newly developed project, which would not otherwise fall under the provisions of this Application.

Submitted by: \_\_\_\_\_  
(Exact Legal Entity)

Project Owner: \_\_\_\_\_  
(If different than above)

Signature of Authorized Representative: \_\_\_\_\_

Title: \_\_\_\_\_

Date Signed: \_\_\_\_\_

**2. Project Summary/Contact Information**

**Note: unless otherwise noted, all electric capacity and energy figures provided should be AC**

Applicant Name: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Class (See Schedule 2 of [Enrollment Application & Process Rules](#)): \_\_\_\_\_

Enrollment Period: \_\_\_\_\_

Estimated Commercial Operation Date: \_\_\_\_\_

Project Site/Location City or Town: \_\_\_\_\_

Proposed Interconnection Point: \_\_\_\_\_

Date of Interconnection Application: \_\_\_\_\_

Interconnection Application No.: \_\_\_\_\_

Proposed Point of Delivery: \_\_\_\_\_

Project Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Facsimile Number: \_\_\_\_\_

Total capacity of the Project (MW):

Gross: \_\_\_\_\_

Nameplate DC Rating (if solar): \_\_\_\_\_

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Net: \_\_\_\_\_

Proposed Hourly Output is the maximum amount of energy and related products available for Delivery to National Grid at the Point of Delivery (kWh AC per hour)<sup>1</sup>:  
\_\_\_\_\_

Expected Annual Energy Production to be delivered to National Grid at the Point of Delivery (MWh AC):  
\_\_\_\_\_

Estimated Net Capacity Factor (%):  
\_\_\_\_\_

Study Provided to Support Estimated Generation: \_\_\_\_\_(Yes) \_\_\_\_\_(No)

If Yes, Name of Firm Who Prepared the Study: \_\_\_\_\_

Expected Annual Availability (%):  
\_\_\_\_\_

Term of Contract: \_\_\_\_\_

Estimated Equipment Life: \_\_\_\_\_

Equipment Manufacturer: \_\_\_\_\_

Project Type:  
(Check as applicable) \_\_\_\_\_ Non-Firm Intermittent Energy  
\_\_\_\_\_ Baseload Energy

Performance Guarantee Deposit<sup>2</sup>: \_\_\_\_\_

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<sup>1</sup> If net metering, distinguish between total project generation and deliveries to the electric distribution system.

<sup>2</sup> The performance guarantee deposit is fifteen dollars (\$15.00) for small distributed generation projects and twenty-five dollars (\$25.00) for large distributed generation projects for every renewable energy certificate (REC) estimated to be generated per year under the contract, but at least five hundred dollars (\$500) and not more than seventy-five thousand dollars (\$75,000), paid at the time of contract execution. Should this milestone be achieved, the deposit shall be refunded, without interest, on a prorated basis of renewable energy actually delivered over the course of the first year of the project's operation.

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### 3. Pricing Information

Pricing must be submitted as a fixed bundled price for the sale of energy, capacity, and renewable energy certificates (RECs) on a per kilowatt-hour (\$/kWh) basis for the output of the project over the contract term of fifteen (15) years.

Price (\$/kWh): \_\_\_\_\_(to five decimal places)

**4. Operational Parameters**

**Note: all electric capacity and energy figures provided should be AC**

Applicants should provide the following information requested regarding the project operational parameters and general project information. If information requested is not applicable to the specific technology, the Applicant should specify with an N/A.

4.1. Operating Characteristics

4.1.1. Nameplate Capacity: \_\_\_\_\_ MW

Net Capacity at Average Site conditions: \_\_\_\_\_ MW

4.1.2. Energy Generation

Expected Gross Annual Energy Production: \_\_\_\_\_ MWh/yr

Expected Net Annual Energy Production: \_\_\_\_\_ MWh/yr

**Expected Peak and Off-Peak Monthly Production<sup>3</sup>**

Month	On-Peak <sup>4</sup> (MWh/Month)	Off-Peak (MWh/Month)
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		
<b>Total</b>		

4.1.3. Annual Degradation Rate (if any) and basis for it: \_\_\_\_\_

4.1.4. Expected Operating Life of the Project (years): \_\_\_\_\_

<sup>3</sup> If the level of generation is expected to vary over the life of the Standard Contract, the Applicant should provide an expanded table for the term of the Standard Contract, [the year 1 production must be included in the table above.](#)

<sup>4</sup> On-Peak - Hours ending 8:00AM through 11:00PM on all non-NERC holiday weekdays. Off-Peak - All hours that are not On-Peak hours.

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4.2. Net Metering<sup>5</sup> (if applicable)  
Three year average on-site usage/load: \_\_\_\_\_

4.3. Operating Mode

Proposed method/mode of Operation

Intermittent Only  
(Please define parameters of operation) \_\_\_\_\_

Must Run (at full load) \_\_\_\_\_

4.4. Maintenance Outage Requirements

Specify partial and complete planned outage requirements in weeks or days.

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<sup>5</sup> If net metering, attach completed Schedule B, Appendix A of R.I.P.U.C. Tariff No. 2075, The Narragansett Electric Company Net Metering Provision: Information Required for Application of Renewable Net Metering and Excess Renewable Net Metering Credits.

## 5. Energy Resource Plan

The Applicant is required to provide an energy resource or fuel supply plan for its proposed project, including supporting documentation. The fuel supply/energy resource profile information should be consistent with the type of technology/resource option proposed and the term of the Standard Contract proposed. The information requested is organized according to the type of project or energy resource. Applicants should respond only to relevant questions.

**The Energy Resource Plan should provide a reliable basis for translation of nameplate capacity to contract capacity under the Long-Term Contracting Standard.**

### Wind Energy Projects:

- Provide a summary of all collected wind data for the proposed site. Identify when the data was collected and by whom.
- Indicate where the data was collected and its proximity to the proposed site. Include an identification of the location for the anemometers and/or other wind speed measurement devices that were used to arrive at an assessment of the site generation capability.
- Provide (a) at least one year of hourly wind resource data, or (b) a wind resource assessment report from a qualified resource assessment firm or meteorologist, or (c) both. Include an analysis of the available wind data which addresses the relationship between wind conditions and electrical output.
- Provide a projection of gross and net annual energy production, including projections of average net hourly energy production, based on the wind resource data (a 12 x 24 energy projection).
- Provide a site-adjusted power curve. Each curve should list the elevation, temperature and air density used.
- Identify the assumptions for losses in the calculation of projected annual energy production, including each element in the calculation of losses.

### Biomass (limited to Anaerobic Digestion Biogas):

- Provide a resource assessment of available biomass fuel for the proposed project and its proximity to the project site.
- Provide a plan for obtaining the biomass fuel or feedstock, including a transportation plan.
- Provide any contracts or letters of intent to acquire and transport the biomass fuel or feedstock.
- Demonstrate that projected energy output for the project over the term of the contract is consistent with the energy supply available.

- Describe any contingencies or constraints that could affect the availability of fuel or the energy resource for the project and any contingency plans for meeting projected generation levels

Solar:

- Provide an assessment of the available solar incidence or resource and the projected production profile for the project. Identify anticipated generation by hour and month for at least a one-year period and describe any trends in generation capability over time (i.e. annual decline rate of expected output).
- Describe the methodology used to generate the projected generation and describe the in-house or consulting expertise used to arrive at the generation estimates. Use of "PV Watts," a solar PV generation estimation tool developed by the National Renewable Energy Laboratory (NREL) is acceptable, with sufficient explanation of chosen inputs to the calculator.

Hydro:

- Describe the project characteristics in terms of water flow (on a monthly basis) and head, and state the assumptions regarding seasonal variations, and a conversion of such flow into kilowatts and kilowatt-hours. Provide monthly flow duration curves based upon daily stream flow records.
- Identify if the project is run-of-river or has storage capability.
- If the project is an expansion of an existing project, (a) provide energy output estimates with and without the proposed expansion and (b) specify the quantity of energy that would qualify as RPS Class I Renewable Generation and the actions proposed to be taken by the Applicant to accomplish such qualification.

## 6. Financial/Legal

Applicants are required to demonstrate the financial viability of their proposed project. Applicants should provide all reasonably available information:

- 6.1. Provide a [summary of all sources of funding that will be applied to the project, including owner's equity, debt/equity financing, bank loans, government financing and grants. Include dollar amounts on all financing alternatives.](#) The financing plan should also address the following:
  - [Estimated development costs and arrangements for development financing](#)
  - Estimated construction costs and arrangements for construction financing
- 6.2. Provide a description of any current credit issues regarding the Applicant or affiliate entities raised by rating agencies, banks, or accounting firms.
- 6.3. Describe the role of the federal Production Tax Credit or Investment Tax Credit (or other incentives) on the viability of the project.
- 6.4. Applicants must disclose any pending or threatened litigation related to projects owned or managed by them or any of their affiliates in the United States.

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<#>The project's planned permanent financial structure¶  
<#>Expected sources of debt and equity financing¶

**Deleted:** <#>Describe any agreements entered into with respect to equity ownership in the proposed project and any other financing arrangement.¶

**Deleted:** In addition, the financing plan should address the financing of development costs. All Applicants are required to provide this information.¶  
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## 7. Siting and Interconnection

This section of the response package addresses project location, siting, real property rights and interconnection issues. Applicants should ensure that the threshold criteria for siting are verified in their responses.

- 7.1. Provide a site plan including a map of the site that clearly identifies the location of the property, the location of the generation facility on the site, the total acreage, the anticipated interconnection point, and the relationship of the site to other local infrastructure, including transmission facilities, roadways, and water sources. In addition to providing the required map, provide a site layout plan which illustrates the location of all major equipment and facilities on the site.
- 7.2. Provide evidence of the right to use the site.
  - Does the project have a right to use the site (e.g., by virtue of ownership or land rights obtained from the owner)?
  - If so, please identify the means of site control.

Include any relevant documentation, e.g., lease agreement, option to lease, purchase agreement, option to purchase, or letter of intent regarding any of the foregoing.

- 7.3. Provide evidence that the project is consistent with the zoning of the site, and not subject to any other restrictions. If there are zoning or other restrictions, identify present and required zoning and/or land use designations, identify any restrictions, and provide a permitting plan and timeline to secure the necessary approvals.
- 7.4. Provide a copy of the interconnection application. Provide a copy of the Feasibility study and/or Impact study, as defined by the Rhode Island Distributed Generation Interconnection Act, completed to date. Provide a copy of an interconnection services agreement, if executed.
- 7.5. Provide a copy of an electrical one-line diagram showing the interconnection facilities and the relevant transmission or distribution facilities.

## **8. Environmental Assessment and Permit Acquisition Plan**

This section addresses environmental and other regulatory issues associated with project siting, development and operations.

- 8.1. Provide a list of all the permits, licenses, and environmental assessments and/or environmental impact statements required. If an Applicant has secured any permit or has applied for a permit, please identify in the response.
  - Provide a list of all Federal, state and local permits, licenses, and environmental assessments and/or environmental impact statements required to construct and operate the project.
  - Identify the governmental agencies which will issue or approve the required permits, licenses, and environmental assessments and/or environmental impact statements.
- 8.2. Provide the anticipated timeline for seeking and receiving the required permits, licenses, and environmental assessments and/or environmental impact statements, using the execution date of the Standard Contract as the starting point, if applicable.



## **9. Engineering and Technology; Commercial Access to Equipment**

This section includes questions pertinent to the engineering design and project technology. Applicants should provide information about the specific technology or equipment including the track record of the technology and equipment.

- 9.1. Provide a reasonable but preliminary engineering plan which includes the following information:
  - Type of generation technology
  - If wind turbines, provide the turbine make and model, hub height, rotor diameter, and power curve
  - Major equipment to be used
  - Manufacturer of the equipment
  - Status of acquisition of the equipment
  - Whether the Applicant has a contract for the equipment. If not, describe the Applicant's plan for securing equipment and the status of any pertinent commercial arrangements
  - Equipment vendors selected/considered
  - History of equipment operations
  - If the equipment manufacturer has not yet been selected, identify in the equipment procurement strategy the factors under consideration for selecting the preferred equipment
  
- 9.2. If the Applicant has not yet selected the major generation equipment for the project, please provide a list of the key equipment suppliers under consideration.

## **10. Operation and Maintenance**

Projects that can demonstrate that the maintenance plan, level of funding, and mechanism for funding will ensure reliable operations during the term of the contract are preferred.

- 10.1. Describe the terms (or expected terms) of the warranties and/or guarantees on major equipment that the Applicant is seeking.
- 10.2. Describe the status of the project sponsor in securing any operation and maintenance agreements or contracts.

## **11. Project Schedule**

Applicants are required to provide a complete critical path schedule for the project from the notice of selection of the project for contract consideration to the start of commercial operations. For each project element, list the start and end date.

Identify the elements on the critical path. The schedule should include, as a minimum, facility contracts, start of construction, construction schedule, siting, fuel supply (if applicable), financing, engineering and procurement, acquisition of real property rights, Federal, state and/or local permits, licenses, environmental assessments and/or environmental impact statements (including anticipated permit submittal and approval dates) and any other requirements that could influence the project schedule, and the Commercial Operation Date.

## 12. Project Management/Experience

This section is provided for Applicants to demonstrate project experience and management capability to successfully develop and operate the project proposed. Project teams should document any previous experience in projects of similar type, size and technology.

- 12.1. Provide a listing of all projects (up to the most recent 10 projects, if applicable) the project sponsor has successfully developed or that are currently under construction. Provide the following information as part of the response:
- Name of the project
  - Location of the project
  - Project type, size and technology
  - Commercial operation date
  - Estimated and actual capacity factor of the unit for the past three years
  - Availability factor of the unit for the past three years
  - References, including the names and current addresses and telephone numbers of individuals to contact for each reference.
- 12.2. With regard to the Applicant's project team, identify and describe the entity responsible for the following:
- Construction Period Lender, if any
  - Operating Period Lender and/or Tax Equity Provider, as applicable
  - Financial Advisor
  - Environmental Consultant
  - Owner's Engineer
  - EPC Contractor (if selected)
  - Interconnection Consultant
  - Legal Counsel

**13. Direct Economic Benefits to Rhode Island**

Total construction cost

\$ \_\_\_\_\_

Estimated expenditures with local contractors?

\$ \_\_\_\_\_

Construction jobs created<sup>6</sup>

Number \_\_\_\_\_ Duration \_\_\_\_\_

How many jobs will be created in Rhode Island to support operation?

\_\_\_\_\_ Direct Jobs

\_\_\_\_\_ Indirect Jobs

Estimate of the annual property taxes or other similar revenues?

\$ \_\_\_\_\_

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<sup>6</sup> All job estimates should be expressed as full-time (annual) equivalents.

**CLEAN VERSION**

# **Rhode Island Renewable Distributed Generation Standard Contract Enrollment Application and Enrollment Process Rules**

## **I. Introduction and Overview**

### **1.1 Purpose of the Enrollment**

The Narragansett Electric Company d/b/a National Grid (“National Grid”) or the “Company”), is seeking applications to enter into standard contracts for the supply of electric capacity and energy and Renewable Energy Certificates and related attributes (including Certificates issued in the New England Power Pool Generation Information System) (collectively, “RECs”) from eligible Distributed Generation projects pursuant to Chapter 26.2 of Title 39 of the Rhode Island General Laws, entitled Distributed Generation Standard Contracts Act (the “Act”), and the solicitation and enrollment process rules promulgated under the Act. In addition, National Grid is conducting this enrollment in accordance with the Rules and Regulations Governing Long-Term Contracting Standards for Renewable Energy (the “Regulations”) promulgated under Chapter 26.1 by the Rhode Island Public Utilities Commission (“Commission”), which became effective January 28, 2010.<sup>1</sup> In the enrollment periods for the current program year, National Grid is soliciting capacity, energy, RECs, and all other environmental attributes and market products that are available or may become available from Distributed Generation facilities pursuant to standard contracts for fifteen (15)-year terms.

### **1.2 Statutory Framework**

Pursuant to the provisions of the Act, National Grid is required to procure 10% of the minimum long-term contract capacity under the long-term contracting standard for renewable energy in section 39-26.1-2, or 9 MW, based on annual class targets set by the Board<sup>2</sup> and approved by the Rhode Island Public Utilities Commission (“Commission”). National Grid shall enter standard contracts for an aggregate nameplate capacity of at least 40 MW of Distributed Generation projects by the end of 2014, as set forth in the following four (4) year schedule:

- By December 31, 2011: a minimum of five megawatts (5 MW) nameplate capacity
- By December 31, 2012: a minimum aggregate of twenty megawatts (20 MW) nameplate capacity

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<sup>1</sup> Except as expressly differentiated in the Act, the standard contracts entered into shall be treated for all purposes as long-term contracts entered into under the provisions of the long-term contracting standards for renewable energy found in chapter 26.1 of Title 39 of the Rhode Island General Laws, and all such provisions shall apply to such contracts. R.I.G.L. § 39-26.2-9.

<sup>2</sup> The Distributed Generation Standard Contract Board, or if not yet constituted, the Rhode Island Office of Energy Resources.

- By December 31, 2013: a minimum aggregate of thirty megawatts (30 MW) nameplate capacity
- By December 31, 2014: a minimum aggregate of forty megawatts (40 MW) nameplate capacity

Thus, under a single enrollment in 2011, the initial program year, National Grid entered standard contracts for a minimum of 5 MW nameplate capacity. Thereafter, the Company must conduct three enrollments annually. Each enrollment will be open for a two-week period. National Grid is not required to enter into more than one-third of the annual target per enrollment, with the exception of the 2011 program year. The attached Schedule 1 sets out a schedule of anticipated dates for the 2014 Enrollment process. The classes and annual targets for the 2014 program year are listed in Schedule 2 of this application.

### **1.2.1 Applications**

Applicants are required to complete and submit a short-form application (“Application”) which Application shall require the applicant to provide the project owner’s identity and the project’s proposed location, nameplate capacity, and renewable energy class and, as described in Section II below, allows for additional information including information relative to the permitting, financial feasibility, ability to build, and timing for deployment of the proposed projects. In addition, all applicants are required to bid a fixed bundled price, not to exceed the applicable standard contract ceiling price, for the sale of the energy, capacity, renewable energy certificates, and all other environmental attributes and market products that are available or may become available from the distributed generation facility on a fixed per kilowatt-hour basis for the output of the project. The Application to be used by facilities with a nameplate capacity greater than 500 kW is attached as Attachment A1. The Application to be used by facilities with a nameplate capacity of 500 kW or less is attached as Attachment A2.

Successful applicants will be selected in accordance with the process set forth in this application, which encompasses the solicitation and enrollment process rules. Standard contracts will be finalized between National Grid and successful applicants, based on bid prices and annual targets for each renewable energy technology class set by the Board and approved by the Commission. A blank Standard Contract, which has been approved by the Commission, is included in this application as Appendix B. The Standard Contract to be used by facilities with a nameplate capacity greater than 500 kW is attached as Attachment B1. The Standard Contract to be used by facilities with a nameplate capacity of 500 kW or less is attached as Attachment B2. Applicants are responsible for reading and understanding the Standard Contract to the extent necessary to submit an application, and to promptly execute this contract if selected in the enrollment. There will be no exceptions to the Standard Contract.

### **1.2.2 Eligibility Requirements**

To be eligible under this enrollment, a distributed generation facility must be a “newly developed renewable energy resource” under the Long-Term Contracting Standard and



the Regulations. A “newly developed renewable energy resource” is defined as an electric generation unit that uses exclusively an eligible renewable energy resource (as defined under R.I.G.L. § 39-26-5 and Section 5 of the Rules and Regulations governing the Implementation of a Renewable Energy Standard, effective July 25, 2007), that has neither begun operation, nor have the developers completed financing for construction.<sup>3</sup> The eligible technologies include biogas generated as a result of anaerobic digestion, but specifically exclude all other listed biomass fuels. Further, the unit must be located in the Narragansett Electric Company ISO-NE load zone, with a nameplate capacity no greater than three (3) MW, and be connected to the electric distribution company’s power system.

a. Small Distributed Generation Projects

Small Distributed Generation projects must bid a fixed bundled price for the sale of energy, capacity, and renewable energy certificates (“RECs”) and all other environmental attributes and market products that are available or may become available from the distributed generation facility on a per kilowatt-hour basis for the output of the project for a contract term of fifteen (15) years. If there are more projects than what is specified for a class target at the same price, the electric distribution company shall review the applications submitted and select first those projects that appear to be the furthest along in development and likely to be deployed in consultation with the Office of Energy Resources. Selection will be based on the lowest price received and on competitive non-price scoring, but not to exceed the applicable ceiling price, provided the applicants meet the minimum threshold requirements set forth in this application. Small Distributed Generation Projects must have a nameplate capacity within the following: Solar: fifty kilowatts (50 KW) to five hundred kilowatts (500 KW); Wind: fifty kilowatts (50 KW) to one and one-half megawatts (1.5 MW); Hydropower: fifty kilowatts (50 KW) to five hundred kilowatts (500 KW); Anaerobic Digestion: fifty kilowatts (50 KW) to five hundred kilowatts (500 KW); and Other Technologies: 1 MW. The applicant must submit an affidavit confirming that the project is not a segment of a larger project.

b. Large Distributed Generation Projects

Large Distributed Generation projects must bid a fixed bundled price for the sale of energy, capacity, and renewable energy certificates (“RECs”) and all other environmental attributes and market products that are available or may become available from the distributed generation facility on a per kilowatt-hour basis for the output of the project for a contract term of fifteen (15) years. Alternative Pricing is allowed for a contract term different than fifteen (15) years, but the Applicant must demonstrate why the alternative term is appropriate, and if the Company agrees to the different term, it must be approved by the Commission. Selection will be based on the lowest price received and on competitive non-price scoring, but not to exceed the applicable ceiling price, provided the applicants meet the minimum threshold

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<sup>3</sup> Under Section 3.16 of the Regulations, projects located within the State of Rhode Island which obtained financing on or after January 1, 2009, which have not begun operation, would also be considered a “newly developed renewable energy resource.”

requirements set forth in this application. Large Distributed Generation Projects are larger than the Small Distributed Generation Project sizes set forth above, but are no greater than 3 MW.

## **II. Bid Evaluation and Selection Criteria and Process**

### **2.1 Overview of Bid Evaluation and Selection Process**

Applications received by National Grid will be subject to a consistent and defined review, evaluation, and selection process. All projects will be evaluated only against other projects submitted in the same approved class for that current enrollment. The first stage consists of a review of whether the bids satisfy specified eligibility and minimum threshold requirements. National Grid will conduct any additional evaluation as required, consistent with the requirements set forth above, and select applicants for execution of Standard Contracts. Consultation with the Rhode Island Office of Energy Resources and/or the Rhode Island Division of Public Utilities and Carriers may also be utilized in this further assessment. Applicants selected by National Grid will be required to indicate in writing whether they intend to proceed with their proposals within five business days of being notified, and to execute contracts within two business days thereafter. Thus, the selected Applicant must pay the performance guarantee deposit and sign the contract within seven (7) business days after a contract offer has been made.

### **2.2 Interconnection Progress Prior to Enrollment**

The Act requires that the distributed generation facility owner be liable for the cost of interconnection, and sufficient progress in the interconnection process must be made prior to the enrollment. Project owners must have submitted an Interconnection Application and have a completed Feasibility study as defined in the Rhode Island Distributed Generation Interconnection Act and The Narragansett Electric Company Standards for Connecting Distributed Generation. Project owners must provide copies of their Interconnection application and Feasibility Study with this application for enrollment. If the project has a completed Impact study, this would also be acceptable, since it is a more comprehensive study.

Information regarding Interconnection of Generators in Rhode Island can be found at the following link:

[https://www.nationalgridus.com/narragansett/business/energyeff/4\\_standard\\_interconnection.asp](https://www.nationalgridus.com/narragansett/business/energyeff/4_standard_interconnection.asp)

### **2.3 Minimum Threshold Requirements**

The Distributed Generation Standard Contracts Act requires that Standard Contracts include a requirement that distributed generation facility owners make a performance

guarantee deposit to National Grid<sup>4</sup> paid at the time of contract execution. The performance guarantee deposit can be as little as \$500 or as much as \$75,000 depending on the output of the project (i.e., projected annual energy output). The deposit must be received and confirmed by National Grid within seven (7) business days after a project is awarded a contract. There are no exceptions to this requirement. Applicants should be prepared to make a deposit when submitting applications into any enrollment. If payment of the required performance guarantee deposit is not received by the date required, the Company will withdraw the offer and not proceed with a Standard Contract with the Applicant in that enrollment. See Schedule 1 for the anticipated dates associated with this upcoming enrollment.

As a second threshold requirement, should the distributed generation facility not produce ninety percent (90%) of the output proposed in its enrollment application within eighteen (18) months of contract execution, the contract is automatically voided, and the performance guarantee deposit is forfeited (note: the same conditions apply to an eligible small-scale hydropower distributed generation facility that has not generated ninety percent (90%) of the output proposed in its enrollment application within forty-eight (48) months after contract execution). It is a threshold requirement, therefore, that the construction schedule for a project lead to accomplishment of this critical milestone within eighteen months of contract execution. The Proposed Hourly Output,<sup>5</sup> which is the maximum amount of energy and related products available for Delivery to National Grid at the Point of Delivery (kWh AC per hour)<sup>6</sup>, must be demonstrated for at least four complete hours (which do not need to be four consecutive hours), which amount shall be adjusted to the extent required to reflect a lack of availability of energy (such as lower than expected wind speed or seasonally reduced insolation), and other factors, as proposed by the Applicant's engineer and accepted by National Grid in its reasonable discretion (the "Output Demonstration").

As a third threshold requirement, project developers submitting applications must have also submitted applications for interconnection and received a Feasibility study, or an Impact study, which should be submitted as part of the application.

Applications that meet all the eligibility requirements and the above minimum threshold requirements will be further evaluated to determine compliance with a broader set of requirements, which have been designed to screen out proposals that are insufficiently mature from a project development perspective; lack technical viability; or fail to satisfy

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<sup>4</sup> The performance guarantee deposit is fifteen dollars (\$15.00) for small distributed generation projects and twenty-five dollars (\$25.00) for large distributed generation projects for every renewable energy certificate (REC) estimated to be generated per year under the contract, but at least five hundred dollars (\$500) and not more than seventy-five thousand dollars (\$75,000), paid at the time of contract execution. Should this milestone be achieved, the deposit shall be refunded, without interest, on a prorated basis of renewable energy actually delivered over the course of the first year of the project's operation.

<sup>5</sup> The Proposed Hourly Output is the maximum amount of energy and related products available for delivery to National Grid at the Point of Delivery (kWh AC per hour). See page 3 of Appendix A.

<sup>6</sup> If net metering, distinguish between total project generation and deliveries to the electric distribution system.

minimum standards for bidder experience and ability to finance the proposed project. The categories of information necessary to complete this further evaluation are set forth below.

- Energy Resource Plan
- Financial/Legal Capability
- Site Control
- Permit Acquisition Plan
- Interconnection
- Technical/Engineering
- Project Schedule
- Project Management and Experience
- Economic Benefit to Rhode Island

National Grid is interested in projects that can demonstrate the ability to develop, permit, finance, and construct the proposed project within the required eighteen-month schedule.

Applicants must use this application to provide responses. Applicants are requested to provide all reasonably available information in each section of the application. If any of the information requested is inconsistent with the type of technology or product proposed, or otherwise unavailable, the Applicant should include “N/A” and describe the basis for this designation. It is anticipated that larger projects may provide a higher level of detail in the responses than smaller projects. It is emphasized, however, that Applicants who do not provide complete and credible information in any of the above categories will be scored accordingly in the Scoring Process. The forms are included in this Application in MS Word format as Appendix A.

## **2.4 Project Scoring**

In conducting evaluations of each project, National Grid will employ the scoring methodology described in Schedule 3. The non-price evaluation criteria are designed to assess the likelihood of a project coming to fruition based on various factors critical to successful project development. The objectives of the criteria are to provide an indication of the feasibility and viability of each project and the likelihood of meeting the proposed commercial operation date. Applications that can demonstrate, based on the current status of project development and past experience, that the project will likely be successfully developed and operated as proposed will have a higher likelihood of success.

For all Distributed Generation projects, price is weighted at eighty percent (80%) and non-price factors at twenty percent (20%).

National Grid reserves the right to reject any project not receiving a minimum score in the non-price evaluation, regardless of the completion date or pricing.

If the situation arises where multiple projects share the same interconnection facilities, and in the event that such projects receive equivalent scores in the evaluation, the project with the earliest interconnection application will be taken first. In addition, National Grid will reject any application for which interconnection is not technically feasible.

## **2.5 Projects at Customer Sites Involving Net Metering**

A distributed generation project that is also being employed by a customer for net metering purposes may submit an application to sell the excess output from the project.<sup>7</sup> In this case, the applicant must be the project owner. The class in which the project is submitted is determined by the total project size, and not by the excess output offered for sale under a Standard Contract. The application forms in Appendix A require that both the project size and the excess output being offered for sale be specified.

## **2.6 Coordination with Annual Solicitations under the Long-Term Contracting Standard**

The DG Enrollment process is separate and distinct from the annual competitive solicitations conducted under the Long-Term Contracting Standards. National Grid will provide reports to the Commission on both the solicitation and the annual enrollment process in order to track compliance with the Long-Term Contracting Standard. Projects submitted, but not yet selected, in an annual solicitation under the Long-Term Contracting Standard, may be submitted in a Distributed Generation enrollment. In this case, should the submitted pricing in one of the large DG classes be higher than that submitted in the competitive solicitation, a fully documented explanation must be provided. Additionally, the Applicant agrees that entering into a DG Standard Contract will automatically rescind the Applicant's bid relative to that project in the annual solicitation under the Long-Term Contracting Standard.

## **2.7 Delivery of Energy into ISO-NE Market**

Energy will be delivered to National Grid in the Narragansett Electric Company ISO-NE load zone at the delivery node associated with the distributed generator. This will be accomplished through registration of the generator as a generation asset and assignment of the energy to National Grid.

## **2.8 Participation in ISO-NE Forward Capacity Market (FCM)**

National Grid shall be the "Project Sponsor" for all Large Distributed Generation Facilities and may qualify the Facility as an Existing Capacity Resource in the Forward Capacity Market (FCM) after the Commercial Operation Date and participate in every Capacity Commitment Period in the FCM with respect to the Facility. National Grid also

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<sup>7</sup> In such case, at the election of the self-generator, all the renewable energy certificates pertaining to the energy consumed on site may be sold on a month-to-month basis outside of the terms of the standard contract.

reserves the right to be the "Project Sponsor" for Small DG Facilities, after consultation with the Division and the Board. If and when National Grid participates as "Project Sponsor" on behalf of any Facility, that Facility must support National Grid, as required, to qualify the Facility as an Existing Capacity Resource in the Forward Capacity Market. Generation owners are required to take commercially reasonable actions to maximize performance against any FCM Capacity Supply Obligations.

## **2.9 RPS Qualification and NEPOOL Generation Information System ("GIS") Certificates**

The Distributed Generation projects must obtain qualification as a renewable resource pursuant to the Rhode Island Renewable Energy Standard ("RES"), and it must register as a Participant Account Holder with the NEPOOL-GIS. Once qualified, National Grid must be designated to receive all of the RECs produced by the project and tracked in the NEPOOL-GIS<sup>8</sup> under the operating rules found at [http://www.iso-ne.com/committees/comm\\_wkgrps/mrkt comm/geninfo\\_sys/operating/index.html](http://www.iso-ne.com/committees/comm_wkgrps/mrkt comm/geninfo_sys/operating/index.html)

## **2.10 Official Contact for the Enrollment**

Any questions on the Enrollment should be directed to the attention of the Official Contact for National Grid at the address listed below:

Jim Calandra  
Environmental Transactions

Questions may be submitted to the Official Contact at following email address: [renewablecontracts@nationalgrid.com](mailto:renewablecontracts@nationalgrid.com)

## **2.11 Submittal of Enrollment Applications**

The Standard Contract Enrollment Application and Appendices are posted on the National Grid Rhode Island Distributed Generation Standard Contracts website.

[https://www.nationalgridus.com/narragansett/business/energyeff/4\\_dist\\_gen.asp](https://www.nationalgridus.com/narragansett/business/energyeff/4_dist_gen.asp)

Completed applications should be submitted electronically to [renewablecontracts@nationalgrid.com](mailto:renewablecontracts@nationalgrid.com), following the instructions on the site for the Rhode Island Standard Contract Enrollment for renewable energy. Electronic submittal will assure that the time of submittal is documented.

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<sup>8</sup> The Rhode Island Distributed Generation Standard Contract Act requires that an electric meter that conforms with standard industry norms be installed to measure the electrical energy output of the distributed generation facility, and require a system or procedure by which the distributed generation facility owner shall demonstrate creation of renewable energy credits, in a manner recognized and accounted for by the GIS; such demonstration of renewable energy credit creation to be at the distributed generation facility owner's expense.

## **2.12 Modification or Cancellation of the Open Enrollment**

Following the submission of applications, National Grid may request additional information from Applicants at any time during the process. Applicants that are not responsive to such information requests may be eliminated from further consideration. National Grid may, at any time up to execution of Standard Contracts, postpone, withdraw and/or cancel this enrollment; alter, extend or cancel any due date; and/or, alter, amend, withdraw and/or cancel any requirement, term or condition of this enrollment, any and all of which shall be without any liability to National Grid. By submitting an Application, an Applicant agrees that the sole recourse that it may have with respect to the conduct of this enrollment is by submission of a complaint or similar filing to the Commission in a relevant docket pertaining to this Open Enrollment.

### Schedule 1

Event	Anticipated Dates
Enrollment begins	March 10, 2014 – 9am EPT
Due Date for Submission of Applications	March 21, 2014 – 5pm EPT
Execute Contracts	April 18, 2014
File Contracts with the Commission	April 25, 2014

Note: Schedule 1 to be updated as required for each enrollment period.



**Schedule 2**  
**Classes and Targets Applicable to Current Enrollment Period**

Class Nameplate (Eligible Project Size)	Target Nameplate	Ceiling Price (cents/kWh)
Wind (50 kW – 1500 kW) 50-999 kW 1,000-1,500 kW	1,500 kW In Total	19.95 20.55
Small Scale Hydropower (50 – 500 kW)	500 kW	18.85
Small Solar-PV <sup>9</sup> (50 – 200 kW DC)	500 kW	27.10
Medium Solar-PV (201 – 500 kW DC)	1,400 kW	27.30
Anaerobic Digestion (50 – 500 kW)	500 kW	19.55
Large Solar PV (501 kW – 3,000 kW) <sup>10</sup>	1,250 kW	23.50

Note: Schedule 2 to be updated as required for each enrollment period.

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<sup>9</sup> The small solar class has the option of applying in either the small or the medium scale class, but not both. The applicant must indicate on the application the class under which the proposed project is applying and the proposed price must be below the applicable ceiling price.

<sup>10</sup> Any unused allocation from a specific class shall roll over into the next open enrollments for that same class; with exception to the Small Solar (50 – 100 kW). Any unused allocation from the Small Solar (50 – 100kW) class is to be added to the Large Solar PV/Anaerobic Digestion class in future enrollments.

**Schedule 3**  
**Project Evaluation and Scoring Methodology**

**Non-Price Scoring for All Projects (20 points)**

Non-price scoring is the same methodology employed National Grid in the initial competitive solicitation, and documented in the report on that solicitation, filed with the RI PUC on April 11, 2011. The scoring methodology is summarized as follows, and is based on the responses in Appendix A.

<b>Evaluation Factors</b>	<b>Max Points</b>	<b>Criteria Considered in Each Factor</b>
<b>A. Siting and Permitting</b>	4.0	<ul style="list-style-type: none"> <li>• Extent to which site control has been achieved and acquisition of any necessary real property rights, including right of ways (1.5 points)</li> <li>• Identification of required permits and approvals and status of plan to obtain permits and approvals (1.5 points)</li> <li>• Community relations/support (1.0 points)</li> </ul>
<b>B. Project Development Status and Operational Viability</b>	6.0	<ul style="list-style-type: none"> <li>• Reasonableness of critical path schedule and demonstrated ability to meet major milestones (1.5 points)</li> <li>• Credibility of energy resource plan (1.5 points)</li> <li>• Commercial access to and reliability of the proposed technology (1.0 points)</li> <li>• Progress in interconnection process (2.0 points)</li> </ul>
<b>C. Experience and Capability of Bidder and Project Team</b>	3.0	<ul style="list-style-type: none"> <li>• Project development experience (1.0 points)</li> <li>• Project financing experience (1.0 points)</li> <li>• Operations and maintenance experience (1.0 points)</li> </ul>
<b>D. Financing</b>	4.0	<ul style="list-style-type: none"> <li>• Credibility of the financing plan (2.0 points)</li> <li>• Financial strength of the bidder (2.0 points)</li> </ul>
<b>E. Economic Benefit</b>	3.0	<ul style="list-style-type: none"> <li>• Project provides direct employment benefits (1.0 points)</li> <li>• Project provides indirect employment benefits (1.0 points)</li> <li>• Project provides tax revenues or other similar revenues (1.0 points)</li> </ul>
<b>Total</b>	<b>20.0</b>	

## Score on Submitted Price for all Projects (80 points)

For each class, the project with the lowest price relative to the ceiling price will receive 80 points. For other projects, one point will be deducted for each \$MWh higher than the lowest submitted price.

## Total Scoring

<b>All Projects</b>	
Price Scoring	80
Non-Price Scoring	20
Total	100

The scoring methodology is intended to discriminate between a project with competitive pricing and a “credible” project with competitive pricing that is most likely to be successfully deployed.

National Grid reserves the right to reject any project not receiving a minimum score in the non-price evaluation, regardless of the completion date or pricing.<sup>11</sup>

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<sup>11</sup> There is the possibility that projects might meet (or even exceed) the threshold requirements, yet not make a credible demonstration that the project is likely to be completed and operated as proposed. It is not feasible to establish such a score in advance, as non-price scoring as a general matter is often driven by how projects compare on a relative basis. It would be expected, however, that some projects may clearly rank well below others in the same or similar classes.

**Rhode Island Renewable Distributed Generation  
Standard Contract Enrollment Application  
Appendix A1  
(TO BE USED ONLY FOR FACILITIES WITH A  
NAMEPLATE CAPACITY GREATER THAN 500 KW)**

**1. Authorized Representative's Signature Certification Form**

The undersigned is a duly authorized representative of the Project listed below. The Representative hereby certifies that all the statements and representations made in this Application are true and accurate to the best of the Applicant's knowledge. The Applicant represents that it understands the requirements, terms and conditions of the Standard Contract. The Applicant certifies under the pains and penalties of perjury that the project submitted is not a segment of a larger newly developed project, which would not otherwise fall under the provisions of this Application.

Submitted by: \_\_\_\_\_  
(Exact Legal Entity)

Project Owner: \_\_\_\_\_  
(If different than above)

Signature of Authorized  
Representative: \_\_\_\_\_

Title: \_\_\_\_\_

Date Signed: \_\_\_\_\_

**2. Project Summary/Contact Information**

**Note: unless otherwise noted, all electric capacity and energy figures provided should be AC**

Applicant Name: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Class (See Schedule 2 of Enrollment Application & Process Rules): \_\_\_\_\_

Enrollment Period: \_\_\_\_\_

Estimated Commercial Operation Date: \_\_\_\_\_

Project Site/Location City or Town: \_\_\_\_\_

Proposed Interconnection Point: \_\_\_\_\_

Date of Interconnection Application: \_\_\_\_\_

Interconnection Application No.: \_\_\_\_\_

Proposed Point of Delivery: \_\_\_\_\_

Project Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Phone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Facsimile Number: \_\_\_\_\_

Total capacity of the Project (MW):  
Gross: \_\_\_\_\_

Nameplate DC Rating (if solar): \_\_\_\_\_

Net: \_\_\_\_\_

Proposed Hourly Output is the maximum amount of energy and related products available for Delivery to National Grid at the Point of Delivery (kWh AC per hour)<sup>1</sup>:

\_\_\_\_\_

Expected Annual Energy Production to be delivered to National Grid at the Point of Delivery (MWh AC):

\_\_\_\_\_

Estimated Net Capacity Factor (%):

\_\_\_\_\_

Study Provided to Support Estimated Generation:

\_\_\_\_\_(Yes)                      \_\_\_\_\_(No)

If Yes, Name of Firm Who Prepared the Study:

\_\_\_\_\_

Expected Annual Availability (%):

\_\_\_\_\_

Term of Contract:

\_\_\_\_\_

Estimated Equipment Life:

\_\_\_\_\_

Equipment Manufacturer:

\_\_\_\_\_

Project Type:  
(Check as applicable)

\_\_\_\_\_ Non-Firm Intermittent Energy

\_\_\_\_\_ Baseload Energy

Performance Guarantee Deposit<sup>2</sup>:

\_\_\_\_\_

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<sup>1</sup> If net metering, distinguish between total project generation and deliveries to the electric distribution system.

<sup>2</sup> The performance guarantee deposit is fifteen dollars (\$15.00) for small distributed generation projects and twenty-five dollars (\$25.00) for large distributed generation projects for every renewable energy certificate (REC) estimated to be generated per year under the contract, but at least five hundred dollars (\$500) and not more than seventy-five thousand dollars (\$75,000), paid at the time of contract execution. Should this milestone be achieved, the deposit shall be refunded, without interest, on a prorated basis of renewable energy actually delivered over the course of the first year of the project's operation.

### 3. Pricing Information

Pricing must be submitted as a fixed bundled price for the sale of energy, capacity, and renewable energy certificates (RECs) on a per kilowatt-hour (\$/kWh) basis for the output of the project over the contract term of fifteen (15) years.

Price<sup>3</sup> (\$/kWh): \_\_\_\_\_(to five decimal places)

Alternative Pricing is allowed for a contract term different than fifteen (15) years, but the Applicant must demonstrate why the alternative term is appropriate. In addition, the Standard Contract would not be applicable for a longer term without explicit Commission approval.

Alternative Contract Term (years): \_\_\_\_\_

Alternative Price (\$/kWh): \_\_\_\_\_

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<sup>3</sup>Projects submitted, but not yet selected, in an annual solicitation under the Long-Term Contracting Standards, may be submitted in a Distributed Generation enrollment. In this case, should the submitted pricing in one of the large DG classes be higher than that submitted in the competitive solicitation, a fully documented explanation must be provided here in Section 3. Additionally, the Applicant agrees that entering into a DG Standard Contract will automatically rescind the Applicant's bid relative to that project in the annual solicitation under the Long-Term Contracting Standards.

**4. Operational Parameters**

**Note: all electric capacity and energy figures provided should be AC**

Applicants should provide the following information requested regarding the project operational parameters and general project information. If information requested is not applicable to the specific technology, the Applicant should specify with an N/A.

**4.1. Operating Characteristics**

4.1.1. Nameplate Capacity: \_\_\_\_\_ MW

Net Capacity at Average Site conditions: \_\_\_\_\_ MW

**4.1.2. Expected Capacity to be Qualified in the ISO-NE Forward Capacity Market<sup>4</sup>**

Winter: \_\_\_\_\_ MW

Summer: \_\_\_\_\_ MW

**4.1.3. Energy Generation**

Expected Gross Annual Energy Production: \_\_\_\_\_ MWh/yr

Expected Net<sup>5</sup> Annual Energy Production: \_\_\_\_\_ MWh/yr

**Expected Peak and Off-Peak Monthly Production<sup>6</sup>**

<b>Month</b>	<b>On-Peak (MWh/Month)</b>	<b>Off-Peak (MWh/Month)</b>
January		
February		
March		
April		
May		
June		

<sup>4</sup> Expected capacity to be qualified in each capability period using the specific conventions applicable to the project type, i.e. conventional or intermittent generator. Please see the following ISO-NE rules, procedures and manuals for a more complete description: OP-14 Technical Requirements for Generators, Demand Resources, and Asset Related Demands; M-RPA Registration and Performance Auditing; M-20 Forward Capacity Market; M-11 Market Operation; and OP-18 Metering and Telemetering Criteria. The overall market tariff is Market Rule 1.

<sup>5</sup> If net metering, applicant must provide documentation of three-year average annual on-site usage/load of all customer accounts involved.

<sup>6</sup> If the level of generation is expected to vary over the life of the Standard Contract, the Applicant should provide an expanded table for the term of the Standard Contract, the year 1 production must be included in the table above.



July		
August		
September		
October		
November		
December		
<b>Total</b>		

4.1.4. Annual Degradation Rate (if any) and basis for it: \_\_\_\_\_

4.1.5. Expected Operating Life of the Project (years): \_\_\_\_\_

4.2. Net Metering<sup>7</sup> (if applicable)

Three year average on-site usage/load: \_\_\_\_\_

4.3. Operating Mode

Proposed method/mode of Operation

Intermittent Only  
(Please define parameters of operation) \_\_\_\_\_

Must Run (at full load) \_\_\_\_\_

4.4. Maintenance Outage Requirements

Specify partial and complete planned outage requirements in weeks or days. Also, list the number of months required for the cycle to repeat (e.g., list time interval of minor and major overhauls, and the duration of overhauls.)

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<sup>7</sup> If net metering, attach completed Schedule B, Appendix A of R.I.P.U.C. Tariff No. 2075, The Narragansett Electric Company Net Metering Provision: Information Required for Application of Renewable Net Metering and Excess Renewable Net Metering Credits.

## 5. Energy Resource Plan

The Applicant is required to provide an energy resource or fuel supply plan for its proposed project, including supporting documentation. The fuel supply/energy resource profile information should be consistent with the type of technology/resource option proposed and the term of the Standard Contract proposed. The information requested is organized according to the type of project or energy resource. Applicants should respond only to relevant questions.

**The Energy Resource Plan should provide a reliable basis for translation of nameplate capacity to contract capacity under the Long-Term Contracting Standard.**

### Wind Energy Projects:

- Provide a summary of all collected wind data for the proposed site. Identify when the data was collected and by whom.
- Indicate where the data was collected and its proximity to the proposed site. Include an identification of the location for the anemometers and/or other wind speed measurement devices that were used to arrive at an assessment of the site generation capability.
- Provide (a) at least one year of hourly wind resource data, or (b) a wind resource assessment report from a qualified resource assessment firm or meteorologist, or (c) both. Include an analysis of the available wind data which addresses the relationship between wind conditions and electrical output.
- Provide a projection of gross and net annual energy production, including projections of average net hourly energy production, based on the wind resource data (a 12 x 24 energy projection).
- Provide a site-adjusted power curve. Each curve should list the elevation, temperature and air density used.
- Identify the assumptions for losses in the calculation of projected annual energy production, including each element in the calculation of losses.

### Biomass (limited to Anaerobic Digestion Biogas):

- Provide a resource assessment of available biomass fuel for the proposed project and its proximity to the project site.
- Provide a plan for obtaining the biomass fuel or feedstock, including a transportation plan.
- Provide any contracts or letters of intent to acquire and transport the biomass fuel or feedstock.
- Demonstrate that projected energy output for the project over the term of the contract is consistent with the energy supply available.

- Describe any contingencies or constraints that could affect the availability of fuel or the energy resource for the project and any contingency plans for meeting projected generation levels

Solar:

- Provide an assessment of the available solar incidence or resource and the projected production profile for the project. Identify anticipated generation by hour and month for at least a one-year period and describe any trends in generation capability over time (i.e. annual decline rate of expected output).
- Describe the methodology used to generate the projected generation and describe the in-house or consulting expertise used to arrive at the generation estimates. Use of “PV Watts,” a solar PV generation estimation tool developed by the National Renewable Energy Laboratory (NREL) is acceptable, with sufficient explanation of chosen inputs to the calculator.

Hydro:

- Describe the project characteristics in terms of water flow (on a monthly basis) and head, and state the assumptions regarding seasonal variations, and a conversion of such flow into kilowatts and kilowatt-hours. Provide monthly flow duration curves based upon daily stream flow records.
- Identify if the project is run-of-river or has storage capability.
- If the project is an expansion of an existing project, (a) provide energy output estimates with and without the proposed expansion and (b) specify the quantity of energy that would qualify as RPS Class I Renewable Generation and the actions proposed to be taken by the Applicant to accomplish such qualification.

## 6. Financial/Legal

Applicants are required to demonstrate the financial viability of their proposed project. Applicants should provide all reasonably available information:

- 6.1. Provide a description of the structure of the Applicant's organization from a financial and legal perspective, including any general and limited partners, officers, directors, managers, members and shareholders, involvement of any subsidiaries supporting the project, and the providers of equity and debt during project development. Provide an organization chart showing the relationship between the equity participants and an explanation of the relationships.
- 6.2. Provide a summary of all sources of funding that will be applied to the project, including owner's equity, debt/equity financing, bank loans, government financing and grants. Include dollar amounts on all financing alternatives. The financing plan should also address the following:
  - Estimated development costs and arrangements for development financing
  - Estimated construction costs and arrangements for construction financing
- 6.3. Provide documentation illustrating the experience of the project sponsor in securing financing for projects of similar size and technology. For each project (up to the 10 most recent, if applicable) previously financed provide the following information:
  - Project name and location
  - Project type and size
  - Date of construction and permanent financing
  - Form of debt and equity financing
- 6.4. Provide evidence that the Applicant has the financial resources and financial strength to complete and operate the project as planned.
- 6.5. The Applicant should demonstrate its ability (and/or the ability of its credit support provider) to provide the required security, including its plan for doing so.
- 6.6. Provide a description of any current credit issues regarding the Applicant or affiliate entities raised by rating agencies, banks, or accounting firms.

- 6.7. Describe the role of the federal Production Tax Credit or Investment Tax Credit (or other incentives) on the viability of the project.
- 6.8. Applicants must disclose any pending or threatened litigation related to projects owned or managed by them or any of their affiliates in the United States.

## 7. Siting and Interconnection

This section of the response package addresses project location, siting, real property rights and interconnection issues. Applicants should ensure that the threshold criteria for siting are verified in their responses.

- 7.1. Provide a site plan including a map of the site that clearly identifies the location of the property, the location of the generation facility on the site, the total acreage, the anticipated interconnection point, and the relationship of the site to other local infrastructure, including transmission facilities, roadways, and water sources. In addition to providing the required map, provide a site layout plan which illustrates the location of all major equipment and facilities on the site.
- 7.2. Provide evidence of the right to use the site.
- Does the project have a right to use the site (e.g., by virtue of ownership or land rights obtained from the owner)?
  - If so, please identify the means of site control.

Include any relevant documentation, e.g., lease agreement, option to lease, purchase agreement, option to purchase, or letter of intent regarding any of the foregoing.

- 7.3. Provide evidence that the project is consistent with the zoning of the site, and not subject to any other restrictions. If there are zoning or other restrictions, identify present and required zoning and/or land use designations, identify any restrictions, and provide a permitting plan and timeline to secure the necessary approvals.
- 7.4. Provide a description of the area surrounding the site including a description of the local zoning, flood plain information, existing land use and setting (woodlands, grasslands, agriculture, other).
- 7.5. Identify any real property rights (e.g., fee-owned parcels, rights-of-way or easements) that are required for access to the project or for interconnection. Describe the status of acquisition of real property rights, and describe the plan for securing the necessary real property rights, including the proposed timeline. Include these plans and the timeline in the overall project timeline.
- 7.6. Provide a copy of the interconnection application. Provide a copy of the Feasibility study and/or Impact study, as defined by the Rhode Island Distributed Generation Interconnection Act, completed to date. Provide a copy of an interconnection services agreement, if executed by the Applicant with respect to the proposed project.

- 7.7. Provide a copy of an electrical one-line diagram showing the interconnection facilities and the relevant transmission or distribution facilities.
- 7.8. Specify and describe the interconnection and transmission or distribution facilities that are required, including system control and protection.

## 8. Environmental Assessment and Permit Acquisition Plan

This section addresses environmental and other regulatory issues associated with project siting, development and operations.

- 8.1. Provide a list of all the permits, licenses, and environmental assessments and/or environmental impact statements required. If a Applicant has secured any permit or has applied for a permit, please identify in the response.
  - Provide a list of all Federal, state and local permits, licenses, and environmental assessments and/or environmental impact statements required to construct and operate the project.
  - Identify the governmental agencies which will issue or approve the required permits, licenses, and environmental assessments and/or environmental impact statements.
- 8.2. Provide the anticipated timeline for seeking and receiving the required permits, licenses, and environmental assessments and/or environmental impact statements, using the execution date of the Standard Contract as the starting point, if applicable. Include a project approval assessment which describes, in narrative form, each segment of the process, the required permit or approval, and the basis for projection of success by the milestone date. All requirements should be included on the project schedule in Section 11.
- 8.3. Provide a preliminary environmental assessment of the site and project, including both construction and operation. The Applicant should identify environmental impacts associated with the proposed project, any potential impediments to development, and its plan to mitigate such impacts or impediments. The analysis should address each of the major environmental areas presented below:
  - Site development
  - Transportation infrastructure
  - Air quality
  - Water resources/water quality
  - Ecology
  - Land use
  - Cultural resources
  - Previous site use
  - Noise level
  - Aesthetic/visual
  - Transmission and distribution infrastructure
  - Fuel supply access (if applicable)



- 8.4. Provide documentation identifying the level of public support for the project including letters from public officials, newspaper articles, etc. If the project sponsor has not yet initiated community outreach for the project, please describe any plans for such outreach activities.

## 9. Engineering and Technology; Commercial Access to Equipment

This section includes questions pertinent to the engineering design and project technology. Applicants should provide information about the specific technology or equipment including the track record of the technology and equipment.

- 9.1. Provide a reasonable but preliminary engineering plan which includes the following information:
  - Type of generation technology
  - If wind turbines, provide the turbine make and model, hub height, rotor diameter, and power curve
  - Major equipment to be used
  - Manufacturer of the equipment
  - Status of acquisition of the equipment
  - Whether the Applicant has a contract for the equipment. If not, describe the Applicant's plan for securing equipment and the status of any pertinent commercial arrangements
  - Equipment vendors selected/considered
  - History of equipment operations
  - If the equipment manufacturer has not yet been selected, identify in the equipment procurement strategy the factors under consideration for selecting the preferred equipment
- 9.2. If the Applicant has not yet selected the major generation equipment for the project, please provide a list of the key equipment suppliers under consideration.
- 9.3. Please identify the same or similar equipment by the same manufacturer that are presently in commercial operations including the number installed and installed capacity
- 9.4. For less mature technologies provide evidence (including identifying specific applications) that the technology to be employed for energy production is ready for transfer to the design and construction phases. Also, address how the status of the technology is being considered in the financial plan for the project.

## **10. Operation and Maintenance**

Projects that can demonstrate that the maintenance plan, level of funding, and mechanism for funding will ensure reliable operations during the term of the contract are preferred.

- 10.1. Provide an operation and maintenance plan for the project that demonstrates the long term operational viability of the proposed project. The plan should include a discussion of the staffing levels proposed for the project, the expected role of the project sponsor or outside contractor, scheduling of major maintenance activity, and the plan for testing equipment.
- 10.2. Describe in detail the proposed O&M funding mechanism and funding levels to support planned and unplanned O&M requirements.
- 10.3. Describe the terms (or expected terms) of the warranties and/or guarantees on major equipment that the Applicant is seeking.
- 10.4. Describe the status of the project sponsor in securing any operation and maintenance agreements or contracts. Include a discussion of the sponsors plan for securing a medium-term or long-term O&M contract, including the expected provider of O&M services.
- 10.5. Provide examples of the Applicant's experience with O&M services for other similar projects.

## **11. Project Schedule**

Applicants are required to provide a complete critical path schedule for the project from the notice of selection of the project for contract consideration to the start of commercial operations. For each project element, list the start and end date.

Identify the elements on the critical path. The schedule should include, as a minimum, facility contracts, start of construction, construction schedule, siting, fuel supply (if applicable), financing, engineering and procurement, acquisition of real property rights, Federal, state and/or local permits, licenses, environmental assessments and/or environmental impact statements (including anticipated permit submittal and approval dates) and any other requirements that could influence the project schedule, and the Commercial Operation Date.

## 12. Project Management/Experience

This section is provided for Applicants to demonstrate project experience and management capability to successfully develop and operate the project proposed. Project teams should document any previous experience in projects of similar type, size and technology.

- 12.1. Provide an organizational chart for the project that lists the project participants and identifies the corporate structure, including general and limited partners.
- 12.2. For each of the project participants (including the Applicant, partners, A/E firm, EPC contractor and proposed contractors), provide statements that list the specific experience of the firm in developing, financing, owning, and operating generating facilities, other projects of similar type, size and technology, and any evidence that the project participants have worked jointly on other projects.
- 12.3. Provide a management chart that lists the key personnel dedicated to this project and provide biographies of the key personnel.
- 12.4. Provide a listing of all projects (up to the most recent 10 projects, if applicable) the project sponsor has successfully developed or that are currently under construction. Provide the following information as part of the response:
  - Name of the project
  - Location of the project
  - Project type, size and technology
  - Commercial operation date
  - Estimated and actual capacity factor of the unit for the past three years
  - Availability factor of the unit for the past three years
  - References, including the names and current addresses and telephone numbers of individuals to contact for each reference.
- 12.5. With regard to the Applicant's project team, identify and describe the entity responsible for the following:
  - Construction Period Lender, if any
  - Operating Period Lender and/or Tax Equity Provider, as applicable
  - Financial Advisor
  - Environmental Consultant
  - Owner's Engineer
  - EPC Contractor (if selected)
  - Interconnection Consultant
  - Legal Counsel

**13. Direct Economic Benefits to Rhode Island**

Total construction cost

\$ \_\_\_\_\_

Estimated expenditures with local contractors?

\$ \_\_\_\_\_

Construction jobs created<sup>8</sup>

Number \_\_\_\_\_ Duration \_\_\_\_\_

How many jobs will be created in Rhode Island to support operation?

\_\_\_\_\_ Direct Jobs

\_\_\_\_\_ Indirect Jobs

Estimate of the annual property taxes or other similar revenues?

\$ \_\_\_\_\_

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<sup>8</sup> All job estimates should be expressed as full-time (annual) equivalents.

**Rhode Island Renewable Distributed Generation  
Standard Contract Enrollment Application  
Appendix A2  
(TO BE USED ONLY FOR FACILITIES WITH A  
NAMEPLATE CAPACITY OF 500 KW OR LESS)**

**1. Authorized Representative's Signature Certification Form**

The undersigned is a duly authorized representative of the Project listed below. The Representative hereby certifies that all the statements and representations made in this Application are true and accurate to the best of the Applicant's knowledge. The Applicant represents that it understands the requirements, terms and conditions of the Standard Contract. The Applicant certifies under the pains and penalties of perjury that the project submitted is not a segment of a larger newly developed project, which would not otherwise fall under the provisions of this Application.

Submitted by: \_\_\_\_\_  
(Exact Legal Entity)

Project Owner: \_\_\_\_\_  
(If different than above)

Signature of Authorized  
Representative: \_\_\_\_\_

Title: \_\_\_\_\_

Date Signed: \_\_\_\_\_

**2. Project Summary/Contact Information**

**Note: unless otherwise noted, all electric capacity and energy figures provided should be AC**

Applicant Name: \_\_\_\_\_

Project Name: \_\_\_\_\_

Project Class (See Schedule 2 of Enrollment Application & Process Rules): \_\_\_\_\_

Enrollment Period: \_\_\_\_\_

Estimated Commercial Operation Date: \_\_\_\_\_

Project Site/Location City or Town: \_\_\_\_\_

Proposed Interconnection Point: \_\_\_\_\_

Date of Interconnection Application: \_\_\_\_\_

Interconnection Application No.: \_\_\_\_\_

Proposed Point of Delivery: \_\_\_\_\_

Project Contact Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Phone Number: \_\_\_\_\_

Email Address: \_\_\_\_\_

Facsimile Number: \_\_\_\_\_

Total capacity of the Project (MW): \_\_\_\_\_

Gross: \_\_\_\_\_

Nameplate DC Rating (if solar): \_\_\_\_\_



Net: \_\_\_\_\_

Proposed Hourly Output is the maximum amount of energy and related products available for Delivery to National Grid at the Point of Delivery (kWh AC per hour)<sup>1</sup>:  
\_\_\_\_\_

Expected Annual Energy Production to be delivered to National Grid at the Point of Delivery (MWh AC):  
\_\_\_\_\_

Estimated Net Capacity Factor (%)  
\_\_\_\_\_

Study Provided to Support Estimated Generation: \_\_\_\_\_(Yes) \_\_\_\_\_(No)

If Yes, Name of Firm Who Prepared the Study: \_\_\_\_\_

Expected Annual Availability (%)  
\_\_\_\_\_

Term of Contract: \_\_\_\_\_

Estimated Equipment Life: \_\_\_\_\_

Equipment Manufacturer: \_\_\_\_\_

Project Type:  
(Check as applicable) \_\_\_\_\_ Non-Firm Intermittent Energy  
\_\_\_\_\_ Baseload Energy

Performance Guarantee Deposit<sup>2</sup>: \_\_\_\_\_

<sup>1</sup> If net metering, distinguish between total project generation and deliveries to the electric distribution system.

<sup>2</sup> The performance guarantee deposit is fifteen dollars (\$15.00) for small distributed generation projects and twenty-five dollars (\$25.00) for large distributed generation projects for every renewable energy certificate (REC) estimated to be generated per year under the contract, but at least five hundred dollars (\$500) and not more than seventy-five thousand dollars (\$75,000), paid at the time of contract execution. Should this milestone be achieved, the deposit shall be refunded, without interest, on a prorated basis of renewable energy actually delivered over the course of the first year of the project's operation.

### 3. Pricing Information

Pricing must be submitted as a fixed bundled price for the sale of energy, capacity, and renewable energy certificates (RECs) on a per kilowatt-hour (\$/kWh) basis for the output of the project over the contract term of fifteen (15) years.

Price (\$/kWh): \_\_\_\_\_(to five decimal places)

**4. Operational Parameters**

**Note: all electric capacity and energy figures provided should be AC**

Applicants should provide the following information requested regarding the project operational parameters and general project information. If information requested is not applicable to the specific technology, the Applicant should specify with an N/A.

**4.1. Operating Characteristics**

4.1.1. Nameplate Capacity: \_\_\_\_\_ MW

Net Capacity at Average Site conditions: \_\_\_\_\_ MW

**4.1.2. Energy Generation**

Expected Gross Annual Energy Production: \_\_\_\_\_ MWh/yr

Expected Net Annual Energy Production: \_\_\_\_\_ MWh/yr

**Expected Peak and Off-Peak Monthly Production<sup>3</sup>**

<b>Month</b>	<b>On-Peak<sup>4</sup> (MWh/Month)</b>	<b>Off-Peak (MWh/Month)</b>
January		
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		
<b>Total</b>		

4.1.3. Annual Degradation Rate (if any) and basis for it: \_\_\_\_\_

4.1.4. Expected Operating Life of the Project (years): \_\_\_\_\_

<sup>3</sup> If the level of generation is expected to vary over the life of the Standard Contract, the Applicant should provide an expanded table for the term of the Standard Contract, the year 1 production must be included in the table above.

<sup>4</sup> On-Peak - Hours ending 8:00AM through 11:00PM on all non-NERC holiday weekdays. Off-Peak - All hours that are not On-Peak hours.

4.2. Net Metering<sup>5</sup> (if applicable)  
Three year average on-site usage/load: \_\_\_\_\_

4.3. Operating Mode

Proposed method/mode of Operation

Intermittent Only  
(Please define parameters of operation) \_\_\_\_\_

Must Run (at full load) \_\_\_\_\_

4.4. Maintenance Outage Requirements

Specify partial and complete planned outage requirements in weeks or days.

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<sup>5</sup> If net metering, attach completed Schedule B, Appendix A of R.I.P.U.C. Tariff No. 2075, The Narragansett Electric Company Net Metering Provision: Information Required for Application of Renewable Net Metering and Excess Renewable Net Metering Credits.

## 5. Energy Resource Plan

The Applicant is required to provide an energy resource or fuel supply plan for its proposed project, including supporting documentation. The fuel supply/energy resource profile information should be consistent with the type of technology/resource option proposed and the term of the Standard Contract proposed. The information requested is organized according to the type of project or energy resource. Applicants should respond only to relevant questions.

**The Energy Resource Plan should provide a reliable basis for translation of nameplate capacity to contract capacity under the Long-Term Contracting Standard.**

### Wind Energy Projects:

- Provide a summary of all collected wind data for the proposed site. Identify when the data was collected and by whom.
- Indicate where the data was collected and its proximity to the proposed site. Include an identification of the location for the anemometers and/or other wind speed measurement devices that were used to arrive at an assessment of the site generation capability.
- Provide (a) at least one year of hourly wind resource data, or (b) a wind resource assessment report from a qualified resource assessment firm or meteorologist, or (c) both. Include an analysis of the available wind data which addresses the relationship between wind conditions and electrical output.
- Provide a projection of gross and net annual energy production, including projections of average net hourly energy production, based on the wind resource data (a 12 x 24 energy projection).
- Provide a site-adjusted power curve. Each curve should list the elevation, temperature and air density used.
- Identify the assumptions for losses in the calculation of projected annual energy production, including each element in the calculation of losses.

### Biomass (limited to Anaerobic Digestion Biogas):

- Provide a resource assessment of available biomass fuel for the proposed project and its proximity to the project site.
- Provide a plan for obtaining the biomass fuel or feedstock, including a transportation plan.
- Provide any contracts or letters of intent to acquire and transport the biomass fuel or feedstock.
- Demonstrate that projected energy output for the project over the term of the contract is consistent with the energy supply available.

- Describe any contingencies or constraints that could affect the availability of fuel or the energy resource for the project and any contingency plans for meeting projected generation levels

Solar:

- Provide an assessment of the available solar incidence or resource and the projected production profile for the project. Identify anticipated generation by hour and month for at least a one-year period and describe any trends in generation capability over time (i.e. annual decline rate of expected output).
- Describe the methodology used to generate the projected generation and describe the in-house or consulting expertise used to arrive at the generation estimates. Use of “PV Watts,” a solar PV generation estimation tool developed by the National Renewable Energy Laboratory (NREL) is acceptable, with sufficient explanation of chosen inputs to the calculator.

Hydro:

- Describe the project characteristics in terms of water flow (on a monthly basis) and head, and state the assumptions regarding seasonal variations, and a conversion of such flow into kilowatts and kilowatt-hours. Provide monthly flow duration curves based upon daily stream flow records.
- Identify if the project is run-of-river or has storage capability.
- If the project is an expansion of an existing project, (a) provide energy output estimates with and without the proposed expansion and (b) specify the quantity of energy that would qualify as RPS Class I Renewable Generation and the actions proposed to be taken by the Applicant to accomplish such qualification.

## 6. Financial/Legal

Applicants are required to demonstrate the financial viability of their proposed project. Applicants should provide all reasonably available information:

- 6.1. Provide a summary of all sources of funding that will be applied to the project, including owner's equity, debt/equity financing, bank loans, government financing and grants. Include dollar amounts on all financing alternatives. The financing plan should also address the following:
  - Estimated development costs and arrangements for development financing
  - Estimated construction costs and arrangements for construction financing
- 6.2. Provide a description of any current credit issues regarding the Applicant or affiliate entities raised by rating agencies, banks, or accounting firms.
- 6.3. Describe the role of the federal Production Tax Credit or Investment Tax Credit (or other incentives) on the viability of the project.
- 6.4. Applicants must disclose any pending or threatened litigation related to projects owned or managed by them or any of their affiliates in the United States.

## 7. Siting and Interconnection

This section of the response package addresses project location, siting, real property rights and interconnection issues. Applicants should ensure that the threshold criteria for siting are verified in their responses.

- 7.1. Provide a site plan including a map of the site that clearly identifies the location of the property, the location of the generation facility on the site, the total acreage, the anticipated interconnection point, and the relationship of the site to other local infrastructure, including transmission facilities, roadways, and water sources. In addition to providing the required map, provide a site layout plan which illustrates the location of all major equipment and facilities on the site.
- 7.2. Provide evidence of the right to use the site.
- Does the project have a right to use the site (e.g., by virtue of ownership or land rights obtained from the owner)?
  - If so, please identify the means of site control.

Include any relevant documentation, e.g., lease agreement, option to lease, purchase agreement, option to purchase, or letter of intent regarding any of the foregoing.

- 7.3. Provide evidence that the project is consistent with the zoning of the site, and not subject to any other restrictions. If there are zoning or other restrictions, identify present and required zoning and/or land use designations, identify any restrictions, and provide a permitting plan and timeline to secure the necessary approvals.
- 7.4. Provide a copy of the interconnection application. Provide a copy of the Feasibility study and/or Impact study, as defined by the Rhode Island Distributed Generation Interconnection Act, completed to date. Provide a copy of an interconnection services agreement, if executed.
- 7.5. Provide a copy of an electrical one-line diagram showing the interconnection facilities and the relevant transmission or distribution facilities.



## **8. Environmental Assessment and Permit Acquisition Plan**

This section addresses environmental and other regulatory issues associated with project siting, development and operations.

- 8.1. Provide a list of all the permits, licenses, and environmental assessments and/or environmental impact statements required. If an Applicant has secured any permit or has applied for a permit, please identify in the response.
  - Provide a list of all Federal, state and local permits, licenses, and environmental assessments and/or environmental impact statements required to construct and operate the project.
  - Identify the governmental agencies which will issue or approve the required permits, licenses, and environmental assessments and/or environmental impact statements.
- 8.2. Provide the anticipated timeline for seeking and receiving the required permits, licenses, and environmental assessments and/or environmental impact statements, using the execution date of the Standard Contract as the starting point, if applicable.

## **9. Engineering and Technology; Commercial Access to Equipment**

This section includes questions pertinent to the engineering design and project technology. Applicants should provide information about the specific technology or equipment including the track record of the technology and equipment.

- 9.1. Provide a reasonable but preliminary engineering plan which includes the following information:
  - Type of generation technology
  - If wind turbines, provide the turbine make and model, hub height, rotor diameter, and power curve
  - Major equipment to be used
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  - Whether the Applicant has a contract for the equipment. If not, describe the Applicant's plan for securing equipment and the status of any pertinent commercial arrangements
  - Equipment vendors selected/considered
  - History of equipment operations
  - If the equipment manufacturer has not yet been selected, identify in the equipment procurement strategy the factors under consideration for selecting the preferred equipment
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## **10. Operation and Maintenance**

Projects that can demonstrate that the maintenance plan, level of funding, and mechanism for funding will ensure reliable operations during the term of the contract are preferred.

- 10.1. Describe the terms (or expected terms) of the warranties and/or guarantees on major equipment that the Applicant is seeking.
- 10.2. Describe the status of the project sponsor in securing any operation and maintenance agreements or contracts.

## **11. Project Schedule**

Applicants are required to provide a complete critical path schedule for the project from the notice of selection of the project for contract consideration to the start of commercial operations. For each project element, list the start and end date.

Identify the elements on the critical path. The schedule should include, as a minimum, facility contracts, start of construction, construction schedule, siting, fuel supply (if applicable), financing, engineering and procurement, acquisition of real property rights, Federal, state and/or local permits, licenses, environmental assessments and/or environmental impact statements (including anticipated permit submittal and approval dates) and any other requirements that could influence the project schedule, and the Commercial Operation Date.

## 12. Project Management/Experience

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12.1. Provide a listing of all projects (up to the most recent 10 projects, if applicable) the project sponsor has successfully developed or that are currently under construction. Provide the following information as part of the response:

- Name of the project
- Location of the project
- Project type, size and technology
- Commercial operation date
- Estimated and actual capacity factor of the unit for the past three years
- Availability factor of the unit for the past three years
- References, including the names and current addresses and telephone numbers of individuals to contact for each reference.

12.2. With regard to the Applicant's project team, identify and describe the entity responsible for the following:

- Construction Period Lender, if any
- Operating Period Lender and/or Tax Equity Provider, as applicable
- Financial Advisor
- Environmental Consultant
- Owner's Engineer
- EPC Contractor (if selected)
- Interconnection Consultant
- Legal Counsel

**13. Direct Economic Benefits to Rhode Island**

Total construction cost

\$ \_\_\_\_\_

Estimated expenditures with local contractors?

\$ \_\_\_\_\_

Construction jobs created<sup>6</sup>

Number \_\_\_\_\_ Duration \_\_\_\_\_

How many jobs will be created in Rhode Island to support operation?

\_\_\_\_\_ Direct Jobs

\_\_\_\_\_ Indirect Jobs

Estimate of the annual property taxes or other similar revenues?

\$ \_\_\_\_\_

---

<sup>6</sup> All job estimates should be expressed as full-time (annual) equivalents.