

Solicitation



Renewable Energy Incentive Program (REIP)

Fiscal Year 2015 Renewable Electric Storage Incentive

Issued by:
Office of Clean Energy
New Jersey Board of Public Utilities

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Acronyms

The following acronyms are used in this document;

- “AC”: Alternating Current
- “ANSI”: American National Standards Institute
- “DC”: Direct Current
- “EDC”: Electric Distribution Company
- “ERB”: Energy Resilience Bank
- “kW”: Kilowatt
- “kWh”: Kilowatt Hour
- “LDC”: Local Distribution Company (gas public utility)
- “MW”: Megawatt
- “MWh”: Megawatt hour
- “NEC”: National Electrical Code
- “N.J.A.C.”: New Jersey Administrative Code
- “NJBPU”: New Jersey Board of Public Utilities
- “NJCEP”: New Jersey’s Clean Energy Program™
- “NJDEP”: New Jersey Department of Environmental Protection
- “OCE”: Office of Clean Energy within the NJBPU
- “OPRA”: Open Public Records Act
- “PJM”: PJM Interconnection
- “PJM-EIS”: PJM Environmental Information Systems Inc.
- “PJM-GATS” PJM Generation Attribute Tracking System (administered by PJM-EIS)
- “PPA”: Power purchase agreement
- “PV”: Photovoltaic
- “RE”: Renewable energy
- “REC”: Renewable Energy Certificate
- “REIP”: Renewable Energy Incentive Program
- “RPS”: Renewable Portfolio Standard
- “SBC”: Societal Benefits Charge
- “SREC”: Solar Renewable Energy Certificate
- “SRP”: SREC Registration Program

Definitions

- Applicant: The entity that applies for the REIP incentive (i.e. Applicant could be the developer, system owner, installer, or site host contact). If the Applicant is not clearly defined to the Market Manager, the default Applicant will be the site host contact.
- Behind the Meter: A common phrase used to refer to a type of renewable energy system that is interconnected to the “customer-generator’s” utility meter at the site and was installed to offset the electric consumption at that utility meter. The NJBPU rules for this type of system interconnection can be found at N.J.A.C. 14:8-5.
- Class I Renewable Energy: means electric energy produced from solar technologies, photovoltaic technologies, wind energy, fuel cells powered by renewable fuels, geothermal technologies, wave or tidal action, and/or methane gas from landfills or a biomass facility, provided that the biomass is cultivated and harvested in a sustainable manner. Types of class I renewable energy are described at N.J.A.C. 14:8-2.5.

- Customer-generator: An electricity customer, such as an industrial, large commercial, residential or small commercial customer that generates electricity behind the meter, using a Class I renewable energy source.
- Customer-sited: Another term for behind the meter.
- Developer: The entity hired by the system owner to develop the renewable energy system.
- Electric Distribution Company (EDC): The NJBPU regulated electric public utility that serves the project site. The EDCs are: Public Service Electric & Gas (PSE&G), Jersey Central Power & Light (JCP&L), Rockland Electric Company (RECO) and Atlantic City Electric (ACE).
- EDC Notification: The written notification provided by the EDC to the customer-generator that the system is authorized to be energized.
- Energy Resilience Bank (ERB): An entity jointly administered by the New Jersey Board of Public Utilities and Economic Development Authority whose purpose is to improve and increase the energy resilience of the state's critical facilities through the financing of distributed generation projects.
- Entity: The business, institution, or public agency that is the site host for an energy storage project.
- Final As-Built: The paperwork packet required in the REIP program that is submitted once the system is installed, passed local inspection and has been "authorized to energize". The Final As-Built packet is a requirement under the REIP Program and a prerequisite for the issuance of the incentive payment.
- Fiscal Year 2015 (FY2015): The program period starting July 1, 2014 and ending June 30, 2015.
- Interconnection Agreement: An agreement between a customer-generator and an EDC which governs the connection of the customer-generator facility to the electric distribution system, as well as the ongoing operation of the customer-generator facility after it is connected to the system. An interconnection agreement shall follow the standard form agreement developed by the NJBPU pursuant to N.J.A.C. 14:8-5 and available from each EDC.
- Installer: The entity that will be installing the renewable electric storage system.
- Islanding: The ability of an electric storage device to disconnect from the grid during an outage and isolate necessary generation and balance of system equipment to supply critical loads independently.
- Market Manager: The organization(s) that were contracted by the NJBPU to administer the NJCEP Renewable Energy Programs.
- Municipal Electric Provider: An electric power utility owned and operated by a local jurisdiction. They are: Butler, Lavallette, Madison, Milltown, Park Ridge, Pemberton, Seaside Heights, South River, Sussex Rural Electric Cooperative and Vineland.
- New Jersey Board of Public Utilities (NJBPU): The Executive Agency of the State of New Jersey with authority to oversee the regulated utilities, which provide critical services such as natural gas, electricity, water, telecommunications and cable television. The law requires the NJBPU to ensure safe, adequate, and proper utility services at reasonable rates for customers in New Jersey as well as to manage the Societal Benefits Charge which funds the New Jersey Clean Energy Program.
- Public and Critical Facilities: For purposes of this Solicitation round, "Critical facilities" means public facilities, including federal, state, county or municipal facilities, non-profit and/or private facilities, including hospitals and communication centers, determined to be

Tier I or critical infrastructure facilities by the Office of Emergency Management and/or Office of Homeland Security and Preparedness.

- **Ready to Build**: The state of project development at which construction is anticipated to commence.
- **Renewable Energy**: For purposes of this Solicitation round, “Renewable Energy” means an electric generating facility in New Jersey that is powered by a Class 1 renewable resource as defined in N.J.A.C. 14:8-1.2 and N.J.A.C. 14:8-2.5.
- **Renewable Energy Certificates (REC)**: A certificate representing the environmental benefits or attributes of one megawatt-hour of generation from a generating facility that produces Class I renewable energy. A Solar Renewable Energy Certificate (SREC) is a certificate that applies only to qualifying solar electric power generation facilities.
- **REIP Program**: Renewable Energy Incentive Program is the suite of New Jersey Clean Energy programs managed by the Renewable Energy Market Manager under contract with the New Jersey Board of Public Utilities.
- **Site Host**: The business, institutional, or governmental entity where the project is located. The site host must be a ratepayer of an EDC or LDC regulated by the NJBPU.
- **Site Host Contact**: The entity or individual located at the project site. This individual or entity can either own the building or grounds or be the tenant whose electric bill is being offset by the system.
- **Societal Benefits Charge (SBC)**: A surcharge on the bills of electric and natural gas utilities regulated by the NJBPU which funds the NJCEP.
- **Solar PV**: A renewable energy system that generates electricity from sunlight.
- **Solicitation Evaluation Committee**: The group authorized by the NJBPU to evaluate all applications to this Solicitation on the basis of established criteria and recommend incentive awards to the NJBPU. It is comprised of representatives of the Market Manager Team, Program Coordinator, Office of Clean Energy, other State agencies and external advisors.
- **SREC Registration Program**: The SREC Registration Program (SRP) is used to register the intent to install solar projects eligible for participation in the New Jersey Renewable Portfolio Standards as described at N.J.A.C. 14:8-2.4.
- **System Owner**: The entity or individual that will own the equipment, renewable energy system and typically also the (S)RECs generated by the renewable energy system.

This document frequently refers to web pages and materials contained in the NJCEP website, which is located at NJCleanEnergy.com. All renewable energy programs are listed under the “Renewable Energy” tab.

1. Program Goals

The goal of the FY2015 Renewable Electric Storage Incentive Solicitation (“Solicitation”) is to provide support in the form of financial incentives for energy storage systems that are integrated with Class 1 renewable energy projects installed behind the meter at customer sites.

This program will ultimately benefit New Jersey ratepayers by supporting the installation of renewable electric storage systems in government, commercial, institutional and industrial entities (including public and critical facilities) for the purpose of providing emergency back-up power for essential services, offsetting peak loads by shifting electricity to hours of higher

demand and, or helping to stabilize the electric distribution system through the provision of frequency regulation services.

1.1 Background and Context

In 2012, the NJBPU released a study it had commissioned from Navigant Consulting, Inc. which identified two potential opportunities for energy storage in the near term based on the amount of intermittent renewable energy (“RE”) installed or anticipated to be installed in New Jersey:

- Shifting the use of renewable generation to more optimal times of the day; and
- Providing some of the additional frequency regulation that may be required with higher levels of intermittent RE

Two months after the release of the Navigant study, Superstorm Sandy knocked out power to millions of New Jersey residents and businesses and thousands of critical facilities. As a result, a third important motivation emerged in support of energy storage market development: Hardening the state’s electric infrastructure and allowing essential services to continue operating during grid outages.

NJBPU Staff began developing a Solicitation for energy storage technology during FY2014 for implementation in FY2015. A Renewable Electric Storage Working Group was formed with industry stakeholders and held meetings on July 23, 2013 and September 20, 2013 to discuss the design, timing, process, incentive structure and eligibility criteria for a competitive solicitation. As a result of those discussions and written comments submitted by stakeholders, Staff issued an initial Straw Proposal for review and comment on January 28, 2014. After reviewing public comments on the initial Straw Proposal, which were discussed at a March 13, 2014 Working Group meeting, along with information obtained from the results of a Request for Information survey that was conducted among energy storage stakeholders in February and March of 2014, Staff issued a second Straw Proposal for review and comment on July 25, 2014. This second Straw Proposal was the subject of discussion at a July 29, 2014 Working Group meeting and open for public comment through August 25, 2014. This Solicitation is the result of the Board-directed program development process.

1.2 Program Objectives

This Solicitation is designed to meet the following objectives:

- Focus on energy storage systems integrated with behind-the-meter electric generation defined consistently with the New Jersey Renewable Portfolio Standard RPS definition as a New Jersey Class I renewable energy resource, which are “ready to build” and can be completed as expeditiously as possible.
- Establish maximum incentive amounts which will allow the limited amount of funds to be committed to a broader number of projects.
- Prioritize facilities that are defined as “public and critical” with the goal of demonstrating the potential for energy storage to keep critical systems operating during power outages.

2. Program Eligibility

The following are eligibility requirements for the Solicitation. Please review the requirements thoroughly to ensure compliance prior to submitting an application to the NJCEP for an incentive award.

When preparing your application in response to this Solicitation, keep in mind that in the Solicitation, the word “shall” or “must” denotes submittal items which are mandatory for an application to be complete; the word “should” denotes submittal items which are recommended, but not mandatory; and the word “may” denotes submittal items which are permissible but not mandatory.

2.1 Project Eligibility Requirements

- Projects must provide for the storage of electricity and be integrated with a Class 1 renewable resource as defined in N.J.A.C. 14:8-1.2 and N.J.A.C. 14:8-2.5.
- This solicitation is open only to projects for which a proposed site host is served under a non-residential electric tariff.
- The renewable energy system to which the energy storage project is integrated must be a behind-the-meter, net metered system interconnected to the New Jersey electric distribution system¹.
- Renewable energy systems, interconnected for the purposes of net metering pursuant to N.J.A.C. 14:8-4, must be sized to produce no more than 100% of the host facility’s historic annual electric consumption.
- The energy storage system may either be integrated with an existing renewable energy installation or with a yet-to-be-installed renewable energy system that has been accepted in the SRP or approved in the REIP Program. Both the renewable energy system and its integrated storage system must be authorized to energize prior to incentive payment.
- Renewable electric storage projects must have a minimum capacity of 50 kW to be eligible for this Solicitation. However, an Applicant may aggregate multiple storage projects of any size in order to meet the minimum capacity, provided that the host sites are all within the service area of a single EDC.

¹ A Net Metering and Interconnection Technical Working Group is developing methods for the EDCs to handle interconnection applications, pursuant to N.J.A.C. 14:8-5.2 (d), for projects that involve a New Jersey Class 1 renewable and energy storage. The intent is to establish and standardize the protocols and requirements to the extent possible among the four EDCs to enable projects to proceed without barriers. Discussions are continuing within the Working Group to identify and resolve issues.

- The site host must contribute to the Societal Benefits Charge (SBC) through their utility bills, i.e., as the customer of an Electric Distribution Company (EDC) or Local Gas Distribution Company (LDC) regulated by the NJBPU.
- NJCEP incentives are contingent upon the applicant meeting all other program requirements, including but not limited to compliance with the host EDC's interconnection requirements and compliance with all applicable local, state and federal laws, permit requirements and regulations.
- Applicants must agree, as a condition for receipt of an incentive payment, to supply accurate cost information based upon the actual as-built installation cost. Eligible installed system cost includes all key system components, installation, and applicable interconnection costs before NJCEP incentive, less any other direct incentives.
- Applicants must identify, to Board staff, the source of funds and the amount of any other direct incentives received for the project. Applicants must deduct other direct incentives from the total installed cost in the calculation of final incentive amounts.
- Applicants who pursue grant incentives for their renewable energy electricity storage application from the New Jersey Energy Resilience Bank ("ERB") will not be eligible to receive incentives under this program. However, applicants participating in the ERB loan program that have not received ERB grant funds for their storage application may apply in this solicitation.

2.2 Technology Eligibility Requirements

- Storage systems must be capable of charging and discharging electricity only. Thermal storage systems (i.e., those that store energy in the form of ice or hot water) are ineligible.
- Electricity placed into storage must be generated by the Class 1 renewable energy system to which the storage is integrated. The storage device may not be charged by electricity generated by other on-site fossil-fueled generators, nor can it be imported from the distribution system except for short-term charging and discharging that enables ancillary services with no material net import or export from the grid.
- Equipment must be new. Used, refurbished, temporary equipment is not eligible.
- Equipment must be permanently installed. Portable systems are not eligible.
- Storage systems must utilize proven and commercially available technology, although the program is technology agnostic.
- Emergency back-up and islanding capability are not program requirements, but are part of the evaluation criteria (see Section 6.3.3). The Solicitation Evaluation Committee will consider the value of emergency back-up in its evaluation process.

- For purposes of emergency backup, the storage system must be capable of supporting the host facility's critical load as defined and identified by the Applicant in the application. Although the program will not set a minimum or maximum number of hours for which the critical load must be supported, the Applicant must express their system's storage capacity either in hours of meeting critical load (as defined by the Applicant and identified in the application) or as hours of storage capacity in terms of nameplate capacity of renewable system to which the storage is connected. The Solicitation Evaluation Committee will consider the nature of the critical load and the duration times in its evaluation process.
- Applicants must demonstrate the extent to which the energy storage project submitted under this solicitation can be replicated at other sites; is scalable and can be added to if necessary; and can support different types of renewable energy systems (i.e., solar, wind or biopower). Any potential limitations to the project's ability to be replicated, to be scalable, or to support diverse renewable energy sources, must be described and justified.

3. Program Funding and Incentive Levels

3.1 Available Program Funding for FY2015

In an Order dated June 30, 2014 In the Matter of the Clean Energy Program -- Programs and Budgets for the Fiscal Year 2015, Docket No. QO14050489, the NJBPU approved Staff's recommendation of a budget of \$3,000,000 for the Renewable Electric Storage Incentive. The full \$3,000,000 is available for incentive commitments in this Solicitation.

3.2 Maximum Incentive Amounts

Applicants shall request the minimum incentive necessary to make their project economically feasible and ensure its timely completion. In order to ensure the widest and most equitable distribution of funds, Applicants may request incentive payments no greater than \$500,000 per project or 30% of the project's total installed cost after deducting any other incentives, whichever is less. Eligible project costs are discussed in Section 5.3.

In addition to the maximum per-project incentive, there shall also be a maximum per-entity incentive. An entity may submit multiple projects in a Solicitation round, but the total incentive requested for those projects shall not exceed \$750,000. For purposes of the per-entity maximum, an "entity" shall be defined as the business, corporation, non-profit, institution or public agency that is the site host for the energy storage project(s). The per-entity maximum does not apply to project developers that are not also system owners. The NJBPU, at its discretion, may waive the per-entity maximum if sufficient program funding exists.

The incentive amount approved by the BPU for any project shall be the maximum incentive amount the project may receive. The approved incentive amount will be paid if the project is built to the capacity proposed, after satisfying all other program requirements. If, upon completion, a project is sized below the capacity for which it was approved, the incentive shall be reduced by a dollar amount equal to the capacity reduction multiplied by the project's approved per-Watt incentive. For example, a 100 kW project approved for a \$200,000 incentive

has a per-Watt incentive of \$2.00. If the project is ultimately sized at 90 kW, it would receive a prorated incentive of only \$180,000 based on the reduced capacity (\$2.00 x 90,000 watts = \$180,000).

3.3 Reapplying for Incentives

A project that is granted an incentive commitment in one Solicitation round may not reapply for an incentive in a subsequent, consecutive Solicitation round. A project would be eligible to reapply in any round thereafter.

3.4 Incentive Reductions

To encourage the completion of projects as expeditiously as possible, storage systems must be installed within 12-months of the date on the REIP approval letter to qualify for 100% of the approved incentive amount. Applicants may request one six-month extension beyond the initial approval period due to unforeseen or extenuating circumstances, but will forfeit 10% of the approved incentive amount if project completion exceeds 12 months. Any premium or reduction in the incentive shall be calculated on the basis of the date the completed Final As-Built paperwork is received. (See Section 7.3 concerning extension requests and 7.4 regarding project completion paperwork requirements).

All incentives will be paid following the successful completion of the program inspection. (See Section 7.5 concerning inspections).

4. Solicitation Timeline

The timeline for this round of the Solicitation is as follows:

- October 22, 2014:** NJBPU Staff presents Solicitation to NJBPU for approval at its agenda meeting.
- October 23, 2014:** Solicitation is issued through email distribution to NJCEP listservs and posting on NJCEP website.
- Applicants may begin submitting written questions regarding the Solicitation to njreinfo@njcleanenergy.com.
- October 29, 2014:** Written question submittal period ends at 5:00 pm EST.
- November 5, 2014:** Market Manager conducts a webinar to review application submittal procedures and provide answers to previously submitted questions.
- December 8, 2014:** Deadline for application submittal. All paperwork must be received by the Market Manager by 5:00 pm EST.

December 18, 2014: Market Manager finishes its review of all applications for completeness. It identifies incomplete applications as such prior to forwarding all applications to the Solicitation Evaluation Committee. Incomplete applications may be evaluated at the discretion of the Committee.

January 7, 2015: The Committee completes its evaluation of all applications and recommends incentive awards for Staff's presentation to the NJBPU at a regularly scheduled NJBPU Agenda meeting.

TBD: The BPU makes a final determination on the Committee's recommendations. Following that determination, all applicants are notified in writing as to whether their applications have been approved and, if so, at what funding level.

TBD: The Market Manager issues REIP Approval letter(s) upon receiving a signed Order from the NJBPU.

5. Application Process

The Market Manager will accept program applications for review on a competitive basis between the issuance date of this Solicitation and 5:00 pm EST on December 8, 2014. The chronological order in which applications are received will not factor into the evaluation process. Applications received after the submittal deadline will not be considered for this round of the Solicitation and will be returned by mail to the Applicant.

Applicants must include all completed forms and all other items listed on the REIP Renewable Electric Storage Application Checklist. The Checklist and all forms are available online at <http://www.njcleanenergy.com/reipapps> and also in Appendices A, B and C of this Solicitation. Original signatures are required on at least one copy of the Application packet.

Applicants should mail or hand-deliver one (1) original hard copy and four (4) electronic copies of the completed REIP Application packet in a digital format (CD, DVD or thumb drive). Please ensure that all electronic documents are individually scanned and identified as they appear on the Energy Storage Application Checklist. Any documents that are faxed or emailed will not be accepted. Please send all materials to:

Renewable Energy Incentive Program – Renewable Electric Storage Solicitation
New Jersey Clean Energy Program
c/o Conservation Services Group
75 Lincoln Highway, Suite 100
Iselin, NJ 08830

5.1 Documentation to include in the Application

All of the following forms and documents must be included in the Application packet.

REIP Application Requirements:

- Renewable Electric Storage Application Checklist (Appendix B) with all items checked (or marked as not applicable).
- Completed REIP Application Form (Appendix A) and REIP Technical Worksheet (Appendix C) with all appropriate signatures.
- A copy of a recent electric bill with annual usage in kilowatt hours or copies of monthly electric bills for the previous 12 months (most recent bill must be within the past three months). Proof of an active electric or gas account with a regulated utility from the site host is required to process the REIP Application.
- If the installation is part of a new construction or expansion project, or the property is under new ownership, and 12 months of recent electric bills are not available, applicant must provide all available electric bills and a copy of a signed and sealed load estimator from a Professional Engineer (PE).
- Equipment Specification sheets showing the storage system's technical data and operating capabilities.
- A one-page site map. This document can be an overhead view drawing or a single line electrical diagram and must clearly indicate the location of the renewable energy system, storage system and point of connection with the utility system. The installation address, current electric utility account number at that address, and the installer's name and telephone number must also be included on the site map.
- A 10-year certification agreement signed by both the applicant and the installer. This document states that the applicant agrees to repay a pro-rated share of the incentive received if the installed equipment is sold, moved, or transferred outside of the State of New Jersey within 10 years of the rebate payment date.
- Applicants should include a copy of the executed contract signed by both the Applicant and installer. Applicants not submitting executed contracts must include a timeline showing the expected date on which an executed contract will be submitted, and any relevant milestones leading up to that date. The submittal of an executed contract will be accepted as satisfying one of the evaluation criteria considered by the Solicitation Evaluation Committee.
- A letter signed by the project developer and applicant that includes a breakdown of the total estimated cost of the project (see Section 5.3 for eligible costs) and all funding sources
- A completed REIP Milestone Reporting Form for Renewable Electric Storage Projects (see Appendix D).
- A description of similar projects successfully installed by the project team, including location, size, time in operation and operating data.

- A decommissioning plan for the storage system, describing the arrangements the Applicant has made for the environmentally-responsible disposal of the system at the end of its useful life.

5.2 Confidentiality

Applications received will be reviewed only by the Market Manager and the Solicitation Evaluation Committee. All proposals submitted will be subject to requests for disclosure, including but not limited to, a request pursuant to the Open Public Records Act ("OPRA"), N.J.S.A. 47:1A-1 et seq. If the applicant believes that information contained in its proposal merits confidential treatment pursuant to OPRA, any such purportedly confidential information submitted to the NJBPU shall be specifically identified and marked by the applicant and submitted to the NJBPU's Records Custodian in compliance with the regulations at N.J.A.C. 14:1-12.1, et seq.

5.3 Eligible Project Costs

Eligible installed system costs include all key system components, installation and applicable interconnection costs before the NJCEP incentive. Applicants will not receive funding under this program and other State and/or Federal-funded program(s) which, together with the estimated amount of this program incentive, exceeds 50% of the total cost of the project. These costs must be documented by invoices from the vendor(s), as well as proof of customer purchase (copy of customer's check or credit card receipt) and be submitted prior to the issuance of the incentive payment.

5.4 Question and Answer Procedures

All questions regarding this Solicitation must be submitted in writing by electronic mail to njreinfo@njcleanenergy.com. The deadline for submitting written questions is 5:00 pm EST on October 29, 2014. The Market Manager will not respond to questions on the phone or in individual consultations. Questions and answers will be reviewed during the webinar scheduled for November 5, 2014 and subsequently posted on the NJCEP website at <http://www.njcleanenergy.com/reipapps>.

6. Evaluation Process and Criteria

6.1 Initial Application Review

All Applications received by the Market Manager prior to the December 8, 2014 submittal deadline will be accepted for review. The Market Manager will conduct an initial review of each Application to determine if all the forms and documents listed in Section 5.1 of this Solicitation are included and properly completed. Missing or incomplete forms and documents will be noted by the Market Manager on a Required Document Checklist attached to the Application so that the Solicitation Evaluation Committee is aware of each Application's complete/incomplete status. The Committee will evaluate all Applications but may, at its discretion, disqualify or otherwise penalize Applications deemed incomplete by the Market Manager.

6.2 Solicitation Evaluation Committee Review

Upon receipt of all Applications that have undergone initial review by the Market Manager, the Solicitation Evaluation Committee shall schedule a meeting either in person or by teleconference to conduct a competitive review process.

The Committee shall review Applications on the basis of four categories: 1) Economic; 2) Project Readiness; 3) Technical; and 4) Resiliency (see Section 6.3 for specific criteria). The categories will be weighted as per the chart below, with the weighting based on a possible total of 100 points that can be awarded to any one project.

Category	Weight as % of Total	Maximum Point Total
Financial and Economic Viability	30%	30
Project Readiness	30%	30
Technical Feasibility	20%	20
Resilience	20%	20
Total	100%	100 points

Funds are expected to be committed to the Applicants who are determined to rank highest on the point scoring system. Funds shall be committed subject to availability. The NJBPU reserves the right to reject incomplete applications and to terminate this Solicitation round if no proposal passes a minimum threshold score or if insufficient funding exists.

6.3 Evaluation Criteria

6.3.1 Financial and Economic Viability:

The Committee will evaluate the cost-effectiveness of each project application on the basis of the following:

- a) Incentive per kW of storage system's capacity (based on the system's full rated capacity) and per kWh of maximum discharge cycle.
- b) Projected cost savings produced through load shifting or demand charge reductions, or revenues generated through demand response or ancillary service programs or in any other participation in PJM markets.
- c) The potential economic benefits of any resiliency capability, value of lost load potentially avoided through the ability of a commercial customer to conduct business, earn profits and keep workers employed during an emergency, and
- d) Other incentives for which the project may be eligible.

6.3.2 Project Readiness:

The Committee will evaluate projects on the basis of their readiness to be installed expeditiously, including:

- a) Projected completion date with realistic schedule and milestones.
- b) Identified and obtained all necessary permits and interconnection approvals including, but not limited to, local permits, land use, CAFRA, National Fire Protection Agency safety requirements, etc., and
- c) Provided examples of successful projects with similar energy storage technologies at existing sites with which the Applicant was involved.

6.3.3 Technical Feasibility:

The Committee will evaluate projects based on:

- a) System efficiency (amount of power lost between charging and discharging).
- b) Commercial availability and “track record” of equipment, and
- c) Performance and reliability of the proposed energy storage system relative to cost.

6.3.4 Resilience:

The Committee will evaluate projects based on the contribution to the Board’s goal for a more resilient energy distribution system:

- a) The host site is defined as “public and critical facility”
- b) The system incorporates islanding capability
- c) The storage system is capable of meeting the host facility’s critical load (as defined by the Applicant) and the length of time that load can be met
- d) The project benefits a large number of people as opposed to a single customer (end-user)
- e) The underlying renewable energy system and the facility itself are operational in the event of an emergency

6.4 Minimum Score Requirement

The Committee will conduct its evaluation regardless of the number of Applications submitted, or if the Applications have an aggregate total requested incentive that is less than the funds available in the Solicitation. The lack of competition or the availability of funds does not suggest that projects will be funded by default.

6.5 Notification of Results

The Market Manager shall notify all Applicants in writing of the NJBPU determinations with regard to their Applications following the issuance of a Board Order. This notification of proposal acceptance or denial shall include (a) whether the Applicant's project has been approved for funding; and if approved, the amount of funding committed to the project; or (b) whether it has been rejected or disqualified with reasons for that determination. The Committee shall not disclose information to Applicants relating to their score, the scores of other Applicants or their ranking against other Applicants.

7. Project Completion

7.1 Project Status Updates

On a quarterly basis beginning with the first end-of-quarter date (March 31, June 30, September 30 and December 31) from the date of the REIP Approval Letter, each Applicant shall submit to the Market Manager an updated REIP Milestone Reporting Form documenting the progress made on the project during that period. The Form shall include, but not be limited to, adherence to the schedule and the achievement of milestones set forth in the Form submitted with the Application; the status of contracts with installers; delivery and installation of equipment; progress on obtaining necessary permits; and any changes in the expected completion date.

Milestone Reporting Forms are due at quarterly intervals until such time as the Final As-Built packet is submitted.

The Market Manager should be promptly notified by the Applicant if a project has been cancelled. In order for a project to be considered cancelled, the Market Manager must receive notice from the Applicant in writing and on the Applicant's letterhead indicating that the project is cancelled. Cancelled projects will not receive incentives.

7.2 Changes in Proposed Project

Projects are expected to be completed as designed and proposed. However, the Market Manager recognizes that some project changes may be required in order to be in compliance with local, state or federal permitting requirements, or as the result of events that were unforeseen at the time the Application was submitted. The Market Manager must be notified in advance, in writing of any proposed change in a project.

If the changes impact the project's eligibility under this Solicitation or are determined to have a material adverse effect on the purpose or process of the REIP, the Market Manager may recommend that the NJBPU take action to terminate the award in whole or in part, depending upon the nature and impact of such.

7.3 Extensions

The project is expected to be completed within the timeframe specified in the Application and within the 12-month approval period noted in the Approval Letter. In the event that the project cannot reasonably be completed during the 12-month approval period, Applicants may apply for an extension.

Extension requests must be received before 5:00 PM on the expiration date of the initial incentive commitment, and must include detailed documentation regarding the reasons for the delay. Progressive documentation of project issues to the Market Manager through the Project Status Updates described in Section 7.1 will significantly improve the case for an extension.

The Market Manager will consider extensions in cases, for example, where significant progress has been made toward completion of the project, and where the delay was unavoidable or unforeseeable at the time the Application was submitted. Approval of any extension will depend on the totality of circumstances related to reasonable progress toward each of the items listed below and the reason why the delay was unavoidable or unforeseeable as demonstrated through documentation provided with the extension request.

- Physical construction has started at the customer's site, which means that:
a) construction permits have been granted (where applicable); b) project materials are either onsite or in storage; and c) installation work has started
- Irrevocable orders have been placed with the manufacturers of the major items of equipment,
- Construction permits have been approved by the authority having jurisdiction (where applicable), and
- Engineering and design work has been started and progressed to a significant degree, and
- Material and/or equipment have been received from the manufacturer, and are either onsite or in storage.

If the extension is granted, the incentive commitment will be extended a maximum of six (6) calendar months, and the incentive will be reduced by 10% (See Section 3.4). No second extensions will be granted by the Market Managers. If a project exceeds the extended deadline, the Market Manager may recommend that the NJBPU take action to terminate the award.

7.4 Project Completion Paperwork

In order to receive an incentive payment, applicants will need to submit a Final As-Built packet once the project has been built, has received local code inspection, and is interconnected to the New Jersey distribution system (if applicable). The Final As-Built packet must include:

- The Final Application Form signed by the Applicant, installer and system owner, if different from Applicant. This document is the third page of the REIP approval letter, which is sent to all applicants receiving a rebate commitment in the REIP.
- A revised REIP Technical Worksheet with the correct rebate calculation if the system size, installation costs or any other data has changed since the initial application submittal, subject to compliance with the requirements in section 7.2.
- Completed and signed Final As-Built Technical Worksheet. The authorized representative for each party listed at the bottom of the Technical Worksheet must sign the form in the designated space.
- Documentation of installed system costs. These costs must be documented by invoices from the vendor(s), as well as proof of customer purchase (copy of customer's check, credit card receipt or lease contract and documentation). Submit updated list of key system components and other costs that support the system cost information listed on the Final As-Built Technical Worksheet if applicable.
- A copy of a New Jersey Tax Clearance Certificate (needed only for commercial, non-profit, farms, and public projects that enter into a PPA); not required for projects owned by a public entity. Form is available at www.njcleanenergy.com/misc/renewable-energy/tax-clearance-certificate.
- A one-page final site map (if the site map has changed from initial application submittal). This document can be an overhead view drawing or a single line electrical diagram and must clearly indicate the specific location of the energy storage system, the renewable energy system, the inverters for both the energy storage and renewable energy systems, any and all meters associated with this project, batteries and the point of connection with the utility system. The installation address, current electric utility account number at that address, and the installer's name and telephone number must also be included on the site map.
- A copy of the signed Electrical Uniform Construction Code Inspection (UCC) Certificate and other applicable permits. NJCEP rebates are contingent upon the applicant meeting all other program requirements, including but not limited to compliance with the host Electric Distribution Company's (EDC) interconnection requirements (see below) and compliance with all applicable local state and federal laws, permit requirements and regulations.
- If required by the EDC; EDC Notification - the written notification provided by the EDC to the customer-generator that the system is authorized to be energized. Requirements after approval of an interconnection - once the EDC performs an inspection or determines that no inspection is needed and has received an executed interconnection agreement from the customer-generator; the EDC shall notify the customer-generator in writing that the customer-generator is authorized to energize the customer-generator facility. Note: If this document is not included in the Final As-Built paperwork, and the remainder of the Final As-Built paperwork is complete, the project will not be considered expired. However, the program inspection or inspection waiver will not be scheduled until this document is received by the Market Manager. Any premium or reduction in the

incentive (see Section 3.4) shall be calculated on the basis of the date the completed Final As-Built paperwork is received.

- Representative digital photographs of the system. The photos shall be a minimum of 5" x 7" at 300 DPI and must include: 1) the energy storage system; 2) the renewable energy system; 3) the storage system inverter; and 4) site changes if any from original application or registration.

7.5 Program Inspection and Funding Disbursement

Once the project is complete, and all Final As- Built paperwork (See definition section and 7.4) has been received and deemed complete by the Market Manager, a program inspection will occur. Once the project passes the program inspection the incentive payment will be set up for disbursement.

7.6 Monitoring and Reporting

Incentive recipients are required to provide NJBPU Staff with data on the performance and efficiency of their storage systems on a quarterly basis for the first year of the system's operation. This data includes, but is not limited to, the total amount of kilowatts and kilowatt-hours charged and discharged each month; overall operating efficiency; the economic benefit the system produces in terms of revenue generated by ancillary services or demand charges avoided by load shifting; and, if applicable, the amount of time the system may have served the host facility's critical load (as defined by the Applicant) during power outages. This information will be valuable to Staff in evaluating the success of the program, and will help inform the discussion on the design of future energy storage incentives.

The Performance Reporting Form that Applicants should complete and submit with this data will be issued at a later date. Participation in future Solicitations is contingent on the Applicant submitting this data in a timely manner.

Performance data will be reviewed only by NJBPU Staff. All data submitted will be subject to requests for disclosure, including but not limited to, a request pursuant to the Open Public Records Act ("OPRA"), N.J.S.A. 47:1A-1 et seq. If the applicant believes that information contained in its report(s) merits confidential treatment pursuant to OPRA, any such purportedly confidential information submitted to the NJBPU shall be specifically identified and marked by the applicant and submitted to the NJBPU's Records Custodian in compliance with the Board's regulations at N.J.A.C. 14:1-12 et seq.

Appendices

Appendix A

**FY2015 Renewable Energy Incentive Program (REIP)
Renewable Electric Storage Incentive Solicitation
Appendix A - Application Form**



FY2015 Renewable Energy Incentive Program (REIP)

Renewable Electric Storage Incentive Appendix A – Application Form

Before completing the REIP Renewable Electric Storage Application Form and the related REIP Renewable Electric Storage Technical Worksheet, please carefully read all of the information in sections A, B, and C. below.

A. Qualification Requirements

1. The proposed system must be installed in New Jersey and interconnected with the electric distribution system serving New Jersey.
2. The REIP is applicable only for electric storage systems integrated with net metered Class 1 renewable energy projects installed behind the meter and sized no greater than 100% of the host's historic annual electric consumption; ~~or a merchant wholesale power generator~~ on a site owned by a customer that pays the Societal Benefits Charge (SBC) on an electric or gas bill.
3. The system must be installed in accordance with requirements specified in the REIP Renewable Electric Storage Technical Worksheet and it must come with owner's manuals.
4. Only new commercially available and permanently installed equipment is eligible for incentives.
5. System warranty must be all-inclusive for at least 5 years. A copy of the warranty must be submitted with the REIP Renewable Electric Storage Technical Worksheet.
6. Applicant/Site Host must contribute to the Societal Benefits Charge (SBC).
7. The Solicitation Evaluation Committee will recommend incentive requests for approval by the New Jersey Board of Public Utilities (NJBPU).
8. **The Applicant must receive an REIP Approval letter from the Renewable Energy Market Manager acting on behalf of the NJBPU prior to commencing installation.**
9. Once approved, Applicants will have 12 months from the date of the REIP Approval letter to satisfy all program requirements and submit the [Final As-Built Packet](#) to request an REIP inspection.

B. Instructions for Completing the Application Form

1. Complete all of Sections A through E of the REIP Application Form. All information is necessary for processing applications.
2. **All signatures on forms or contracts are required.**

C. Important Terms and Conditions

1. The "Applicant/Site Host Contact" is defined as the entity at which the proposed electric storage system will be installed.
2. The Applicant/Site Host Contact is responsible for submission of all forms and for communications regarding this REIP Application.
3. The Applicant/Site Host Contact must agree to an REIP inspection of their installed electric storage system by a program representative. The Applicant/Site Host Contact must also agree to allow a program representative to verify the system's performance for the life of the system.
4. The NJBPU reserves the right to modify or withdraw this program. Approved projects will be honored under the terms stated in the REIP Approval letter.
5. Installation must comply with the host Electric Distribution Company's (EDC) interconnection requirements, which are available online; these include operation/disconnection procedures, liability/indemnity and insurance requirements according to the size of the project. For information on interconnection, please see our website at www.NJCleanEnergy.com or contact your EDC.
6. The Applicant must comply with the installation requirements in the REIP Technical Worksheet.
7. If anything is changed from the original REIP Application submitted, an updated REIP Application Form must be submitted PRIOR to the REIP inspection of the installed system.
8. Systems shall be installed according to manufacturer's instructions.
9. Portable systems are not eligible to participate in the REIP Renewable Electric Storage Incentive.
10. Information may be subject to the Open Public Records Act (OPRA) requirements. Aggregated Information will be used in reports and evaluations, and the geographic location will be used to update GIS mapping.
11. All installations must comply with all applicable local, state and federal laws, permit requirements and regulations.



FY2015 Renewable Energy Incentive Program (REIP)

Renewable Electric Storage Incentive Appendix A – Application Form

A: APPLICANT/SITE HOST CONTACT (Where will the system be installed?)

Electric Utility Name: _____ Account Number: _____
 Company Name _____
 First Name: _____ Last Name: _____
 Daytime Phone: _____ Email: _____
 Installation Address: _____
 City: _____ State: _____ Zip Code: _____
 Mailing Address (if different): _____
 City: _____ State: _____ Zip Code: _____
 Type: Commercial Non-Profit Public School School other Government Farm
 Public and Critical Facility? Yes No Facility Type: (i.e., hospital, school, office) _____

B: SYSTEM OWNER (Who will own the system after it is installed?) FILL OUT IF DIFFERENT PERSON THAN SECTION A

Company Name: _____ Contact Person: _____
 Mailing Address: _____
 City: _____ State: _____ Zip Code: _____
 Daytime Phone: _____ Email: _____

C: REBATE RECIPIENT (Fill in section if rebate check is to be issued to an organization / person other than the Site Host Contact)

Company Name: _____ Contact Person: _____
 Daytime Phone: _____ Email: _____
 Mailing Address: _____
 City: _____ State: _____ Zip Code: _____
Applicant Signature: _____

D: CONTRACTOR / INSTALLER

Company Name: _____ Contact Person: _____
 Daytime Phone: _____ Email: _____
 Mailing Address: _____
 City: _____ State: _____ Zip Code: _____
 Installer to be determined: Yes No Self-Install:

E: CERTIFICATIONS

The undersigned warrants, certifies and represents that 1) the information provided in this form is true and correct to the best of his or her knowledge; 2) this is either a net metered behind-the-meter system that will not exceed 100% of the host's historic annual electric usage; or a merchant wholesale power generator on a site owned by a customer that pays the Societal Benefits Charge on an electric or gas bill. 3) the installer/developer will provide manuals related to the system operation and maintenance to the system owner; 4) the system proposed will be constructed, installed and operated in accordance with all NJBPU rules and applicable laws, and all NJBPU policies and procedures for the REIP Renewable Electric Storage Incentive; 5) the applicant/site host contact is the Customer of Record for the Utility Account; 6) the site host contact gives permission for a program representative to review their electric account information, both prior to installation and subsequent to installation; 7) all signed parties realize that certain information in their application may be subject to the Open Public Records Act (OPRA); 8) the installer/developer has reviewed and explained the applicable REIP Renewable Electric Storage Technical Worksheet; and 9) the Worksheet that accompanies this application is accurate and system installation will follow the instructions detailed on the instruction page of the Worksheet.

System Owner

Contractor/Installer

Site Host Contact

(if different from system owner)

Signature: _____

Signature: _____

Signature: _____

Print Name: _____

Print Name: _____

Print Name: _____

Date: _____

Date: _____

Date: _____

Appendix B

**FY2015 Renewable Energy Incentive Program (REIP)
Renewable Electric Storage Incentive Solicitation
Appendix B - Application Checklist**



FY2015 *Renewable Energy Incentive Program (REIP)* Renewable Electric Storage Competitive Solicitation Appendix B – Application Checklist

The REIP offers financial incentives through a competitive solicitation process for applicants investing in electric storage projects that are integrated with Class 1 renewable energy systems.

Incentives are contingent upon the applicant meeting all other program requirements, including but not limited to compliance with the host Electric Distribution Company's interconnection requirements and compliance with all applicable local state and federal laws, permit requirements and regulations. Once approved, REIP applicants will have 12 months from the date of the REIP Approval letter to satisfy all program requirements and submit the [Final As-Built Packet](#) to request an NJCEP program inspection.

Listed below is the documentation required when submitting an application packet.

- Completed REIP Application Form (Appendix A) with all appropriate signatures.
- Completed Renewable Electric Storage Technical Worksheet (Appendix C).
- Copy of a recent electric bill with yearly usage in kilowatthours or copies of monthly electric bills for the previous 12 months (last bill within past three months). **Proof of electric or gas account from a regulated utility is required to process the REIP Application.**
 - If the installation is part of a new construction or expansion project, or the property is under new ownership, and 12 months of recent electric bills are not available, applicant must provide all available electric bills **and** a copy of a **signed and sealed load estimator from a Professional Engineer (PE)**.
- Equipment Specification sheets showing the storage system's technical data and operating capabilities.
- A one-page site map. This document can be an overhead view drawing or a single line electrical diagram and must clearly indicate the location of the renewable energy system, storage system and point of connection with the utility system. The installation address, current electric utility account number at that address, and the installer's name and telephone number must also be included on the site map.
- Copy of 10-year certification addendum signed by both the applicant and the installer/developer. This document states that the applicant agrees to repay a pro-rated share of the incentive received if the installed equipment is sold, moved, or transferred outside the State of New Jersey within 10 years of the incentive payment date.
- Applicants may include a copy of the executed contract signed by both the Applicant and installer. Applicants not submitting executed contracts must include a timeline showing the expected date on which an executed contract will be submitted, and any relevant milestones leading up to that date. The submittal of an executed contract will be accepted as satisfying one of the evaluation criteria considered by the Solicitation Evaluation Committee.
- A letter signed by the project developer and applicant that includes a breakdown of the total estimated cost of the project (see Section 5.3 for eligible costs) and all funding sources.
- A completed REIP Milestone Reporting Form for Renewable Electric Storage Projects (Appendix D), This Form must be submitted as an initial report with the REIP Application packet and quarterly thereafter, including any extensions to the initial REIP Approval period, until the Final As-Built packet is submitted.
- A completed Data Collection for Evaluation Form (see Appendix E).



**FY2015 Renewable Energy Incentive Program (REIP)
Renewable Electric Storage Competitive Solicitation
Appendix B – Application Checklist**

- A decommissioning plan for the storage system, describing the arrangements the Applicant has made for the environmentally-responsible disposal of the system at the end of its useful life. **See Section G REIP Technical Worksheet.**
- A description of similar projects successfully installed by the project name, time in operation and other relevant data. **See Section F REIP Technical Worksheet.**

Applicants should mail or hand-deliver one (1) original hard copy and four (4) electronic copies of the completed REIP Application packet in a digital format (CD, DVD or thumb drive). Please ensure that all electronic documents are individually scanned and identified as they appear on the Energy Storage Application Checklist. Any documents that are faxed or emailed will **not** be accepted.

Please send all materials to:

**Renewable Energy Incentive Program – Renewable Electric Storage Solicitation
New Jersey Clean Energy Program
c/o Conservation Services Group
75 Lincoln Highway, Suite 100
Iselin, NJ 08830**

Appendix C

**FY2015 Renewable Energy Incentive Program (REIP)
Renewable Electric Storage Incentive Solicitation
Appendix C - Technical Worksheet**



FY2015 *Renewable Energy Incentive Program* (REIP) Renewable Electric Storage Incentive Appendix C – Technical Worksheet

Please read carefully all of the following information. With the help of your installation contractor, fully complete all sections of this REIP Renewable Electric Storage Incentive Application Form and this Technical Worksheet.

Program Terms and Conditions

To qualify for an incentive, the applicant must comply with all *Renewable Energy Incentive Program* (REIP) eligibility requirements, terms and conditions, installation requirements and submit all completed forms. All applications are evaluated by the Solicitation Evaluation Committee on the basis of the criteria set forth in the FY2015 Renewable Electric Storage Incentive solicitation document. The Committee's recommendations for funding must be approved by the New Jersey Board of Public Utilities (NJBPU).

The payment of incentives is contingent upon the applicant meeting all other program requirements, including but not limited to compliance with the host Electric Distribution Company's (EDC) interconnection requirements and compliance with all applicable local state and federal laws, permit requirements and regulations.

Program Installation Requirements

1. The installation must comply with the provisions of the National Electrical Code (NEC) and all other applicable local, state, and federal codes and permit requirements or practices. All required permits must be properly obtained and posted.
2. All required inspections (Electrical/NEC, local building codes enforcement office inspection, etc.) must be performed. In order to ensure compliance with provisions of the NEC, an inspection by a state-licensed electrical inspector is mandatory. The NJCEP inspection will be performed after the local building code enforcement office has inspected the project.
3. Energy storage systems must be properly installed according to manufacturer's instructions and must comply with the interconnection and protection requirements of the local EDC.
4. System wiring must be installed in accordance with the provisions of the NEC.
5. Warning labels must be posted on the control panels and junction boxes indicating that the circuits are energized by an alternate power source independent of utility-provided power.
6. Operating instructions must be posted on or near the system, or on file with facilities operation and maintenance documents.
7. All projects regardless of size must have a revenue grade kilowatt hour production meter that has been certified to the ANSI C12.1-2008 standards.

A: Renewable Energy System Information

The equipment listed in this section of the Technical Worksheet must be a true representation of the equipment that is either installed at the host site at the time of this submittal or is proposed to be installed at the host site in connection with the proposed installation of the energy storage system.

B: Host Facility Information

The site host facility must be classified as to whether it is a "public and critical facility". For the purpose of this solicitation, the following definition will be used which may be subject to change in subsequent proceedings or the next solicitation round: "Critical facilities" means public facilities, including federal, state, county or municipal facilities, non-profit and/or private facilities, including hospitals and communication centers determined to be Tier I or critical infrastructure facilities by the Office of Emergency Management and/or Office of Homeland Security and Preparedness.

Critical loads at the host site must be identified and quantified regardless of whether the facility is classified as "public and critical".



FY2015 *Renewable Energy Incentive Program* (REIP) Renewable Electric Storage Incentive Appendix C – Technical Worksheet

C: Proposed Storage Equipment Information

The equipment listed in this section of the Technical Worksheet must be a true representation of the equipment proposed to be installed at the site covered by this submittal.

For installations with multiple battery units, the number of individual units should be multiplied by the capacity of each unit to determine a total capacity for the proposed project.

D: Incentive Request and System Cost Information

Applicants **must** supply cost information that is accurate and has been updated to reflect the total estimated installed cost of the proposed system as of the date of this submittal. REIP applications will not be processed without system cost information. Cost data will also be required with any revised worksheets submitted. Cost data can be submitted for protection under New Jersey's Open Public Records Act (OPRA) by following the Board's procedures found at www.nj.gov/bpu.

E: Warranty Information

There is no warranty requirement for energy storage systems. However, warranties will be included in the evaluation criteria and the Solicitation Evaluation Committee will give priority to those applications which include a warranty that protects the purchaser against component or system breakdown. The Committee will give consideration to both the length of the warranty and its coverage. **Note: If a warranty is obtained by the applicant, a copy of the warranty must be submitted with this REIP Renewable Electric Storage Incentive Technical Worksheet.**

F: Similar Projects Successfully Installed by Project Team

Applicants must enter the information requested in the appropriate spaces on the table provided.

G: Decommissioning Plan

In the space provided in this Section, please summarize the decommissioning plan for the storage system, describing the arrangements made for the environmentally-responsible disposal of the system at the end of its useful life.



FY2015 Renewable Energy Incentive Program (REIP) Renewable Electric Storage Incentive Appendix C – Technical Worksheet

A: RENEWABLE ENERGY SYSTEM INFORMATION

Applicant: _____ Company Name: _____

Type of system: ___ Solar ___ Wind ___ Biomass Existing system? ___ Yes ___ No

System capacity: _____ kW Annual production: _____ kWh Production as % of facility's annual electric use _____

SRP, REIP or CORE project number _____ Date of system's authorization to energize _____

B: HOST FACILITY INFORMATION

Does facility operate 24/7/365? ___ Yes ___ No If no, how many hours does it operate annually? _____

Does facility have islanding capability? ___ Yes ___ No Does facility have blackstart capability? ___ Yes ___ No

Please identify the facility's critical load by type (computers, life sustaining equipment, refrigeration, etc.) and demand:

Type	Demand (kW)
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
Total: _____	

Expected critical load to be met by the project in an emergency _____ kW Percentage of total critical load _____%

What is the length of time that the critical load can be met? _____ hrs.

How will the general public directly benefit from the project? _____

C: PROPOSED STORAGE EQUIPMENT INFORMATION

1. Battery Type (i.e., lithium ion, lead acid, etc.) _____
2. Manufacturer _____
3. Model Number _____
4. Capacity Rating of each battery unit: _____ AC Watts Number of battery units: _____
5. Total System Capacity Rating: _____ AC Watts (No. of battery units x Capacity Rating)
6. Maximum discharge time in hours: _____
7. Projected Annual Discharge _____ kWh/yr.
8. Expected Life of Project _____ yrs.
9. Round-trip Efficiency _____%
10. Primary use for stored energy: ___ Load shifting ___ Frequency regulation ___ Emergency Back-up
11. Secondary use for stored energy: ___ Load shifting ___ Frequency regulation ___ Emergency Back-up



FY2015 Renewable Energy Incentive Program (REIP) Renewable Electric Storage Incentive Appendix C – Technical Worksheet

D: SYSTEM COSTS AND INCENTIVE REQUEST

1. Total Estimated Installed System Cost: \$ _____
Eligible installed system cost includes all key system components, installation, and applicable interconnection costs before *New Jersey's Clean Energy Program* incentive, less any other direct incentives. The actual costs must be documented by invoices from the vendor(s), as well as proof of customer purchase (copy of customer's check, credit card receipt or lease contract and documentation) submitted with the Final As-Built packet.
2. Total Estimated Installed System Cost per kW: \$ _____
3. Variable O&M Cost _____ \$ per kWh
4. Fixed O&M Cost (Estimated Annual Value) \$ _____ Fixed O&M Cost (Estimated Annual Value per kW) \$ _____
5. Projected annual financial benefit (cost savings plus projected annual revenue from demand response and other ancillary services) \$ _____
6. Requested Incentive: \$ _____ **(Maximum incentive is \$500,000 per project and \$750,000 per entity.)**
7. Requested incentive per kW of total storage capacity (Line D6 divided by Line C5) _____
8. Identification of other incentive(s) applied for or obtained that was subtracted from Total Installed System Cost on Line D3. Please identify the agency, program and dollar amount of each incentive:

Agency	Program	Dollar Amount
Total \$ Amount		
9. Maximum allowable incentive (Multiply Line D3 by 30%): \$ _____
10. Final incentive amount requested (Enter the lesser of Line D1 or D5): \$ _____

E: WARRANTY INFORMATION

1. Equipment: _____ Years 2. Installation: _____ Years 3. Parts and Labor: _____ Years

Warranties are not required but will be considered in the evaluation process. A copy of the warranty must be submitted if this section is completed.



**FY2015 Renewable Energy Incentive Program (REIP)
Renewable Electric Storage Incentive
Appendix C – Technical Worksheet**

F: SIMILAR PROJECTS SUCCESSFULLY INSTALLED BY PROJECT TEAM

Project Name	Location	Time in Operation	System Size (kW)	Maximum Discharge Time	Supporting critical load? (Yes/No)

G: DECOMMISSIONING PLAN

Please summarize the decommissioning plan for the storage system:

Appendix D

**FY2015 Renewable Energy Incentive Program (REIP)
Renewable Electric Storage Incentive Solicitation
Appendix D - Milestone Reporting Form**



Renewable Energy Incentive Program (REIP) Appendix D – Milestone Reporting Form For Renewable Electric Storage Projects

Section B: Project Milestones

Milestone	Achieved (Y/N)	Date Achieved	Date Expected to Achieve
1. Applications submitted for all required federal, state and local permits			
2. All required federal, state and local permits obtained			
3. Interconnection application approval			
4. Contract signed with installer*			
5. Construction/installation begun			
6. Construction/installation complete			
7. Passed local inspection (UCC)			
8. EDC authorization to operate; if required by EDC			

***NOTE:** Once a contract has been executed, a hard copy should be submitted to the Market Manager with the next quarterly Milestone Reporting Form submission. Copies of any and all contracts must be submitted prior to scheduling an REIP inspection.

Comments (optional):

Section C: Certifications

The undersigned warrants, certifies and represents that the information provided in this form is true and correct to the best of his or her knowledge.

Applicant/Site Host Contact

System Owner (if different from Applicant)

Signature: _____

Signature: _____

Print Name: _____

Print Name: _____

Date: _____

Date: _____

Appendix E

**FY2015 Renewable Energy Incentive Program (REIP)
Renewable Electric Storage Incentive Solicitation
Appendix E - Data Collection for Evaluation Form**

DATA COLLECTION FOR EVALUATION FORM - ENERGY STORAGE - Appendix E

S.No.	Category	Unit	Data Location	Inputs to be provided by Applicant
A	<i>Financial and Economic Viability</i>			
1	Total Installed System Cost	\$	TWS-D3	
2	Total Installed System Cost	\$/kW	TWS-D4	
3	Variable O&M Cost	\$/kWh	TWS-D3	
4	Fixed O&M Cost (Estimated Annual Value)	\$	TWS-D4	
5	Fixed O&M Cost (Estimated Annual Value per kW)	\$/kW-yr	TWS-D4	
6	Battery Replacement Cost	\$/kWh		
11	Incentive Amount Requested	\$	TWS-D1	
12	Incentive Amount Requested by kW of storage system capacity	\$/kW	TWS-D2	
13	Other incentives requested for the same project	\$	TWS-D5	
14	Projection of cost savings, demand response and other ancillary service revenues expected per annum for the life of project	\$		
B	<i>Project Readiness</i>			
1	Estimated Project Construction Start Date	Date	MF-B6	
2	Estimated Construction Completion Date	Date	MF-B7	
4	All required permits applied for	Yes/No	MF-B1	
5	Prior similar project experience		W-F	
C	<i>Technical Feasibility</i>			
1	Battery Technology Type		TWS-C1	
2	Nameplate Capacity	KW	TWS-C4	
3	Nameplate Duration	Hrs	TWS-C6	
4	Projected Annual Discharge	kWh/ yr	TWS-C7	
5	Project Life	Yrs	TWS-C8	
6	Lifetime Battery Replacements	#		
7	Roundtrip Efficiency	%	TWS-C9	
D	<i>Resilience</i>			
1	Is the host site a "public and critical facility"?	Yes/No	TWS-A4	
2	Islanding capability	Yes/No	TWS-A6	
3	Planned host facility load met by the project at times of emergency	KW	TWS-B	
4	Percent of total host facility load met by the project at times of emergency	%	TWS-B	
5	Length of time for which the host facility load share can be met	Hrs	TWS-B	
6	Number of end-users who directly benefit from the project	#	TWS-B	

NOTE: Data Location: TWS=Technical Worksheet MF=Milestone Form