



# Energy Storage Adder Pilot Program

Rhode Island Renewable Energy Fund (REF)

V4

Revised 10/26/2020

## REF Commercial-Scale Application Addendum



## Submission Instructions

Please submit a complete electronic copy to [REF@commerceri.com](mailto:REF@commerceri.com) in the same email as your application to the Small-Scale Program or Commercial-Scale Program.

Uploading documents to Dropbox or a shared folder is highly recommended. Please include the shared link in the body of your email.

Please submit applications and questions to [REF@commerceri.com](mailto:REF@commerceri.com).

- Review the energy storage adder Request for Projects for further details before submitting an application.
- Read and review the REF Rules and Regulations before completing this application. A copy of the proposed Rules may be obtained by mail or email, by calling 401-278-9100, or may be accessed online at: <http://commerceri.com/wp-content/uploads/2017/12/REF-Rules-and-Regulations-2017-870-RICR-20-00-1-.pdf>.
- All requirements must be met.
- Incomplete applications will not be processed.
- Awards are dependent on funding availability.
- All applicants are advised that any and all records (documents, correspondence, memoranda, etc.), regardless of the form provided, received or maintained by COMMERCE RI and/or the REF, may be a matter of public record and subject to release under the Rhode Island Access to Public Records Act (R.I. Gen. Laws §38-2-1 et seq.). Commerce RI does however have the right to redact any information which is exempt under the statute before releasing the documents. The exemptions that would most pertain to financing or grant applications include but are not limited to reports and statements of strategy or negotiation, trade secrets and commercial and financial information which is privileged or confidential pursuant to R.I. Gen. Laws §38-2-2. As such, we suggest that any portion of the application or materials provided by the applicant that contains such information (including for example, customer lists, processes, etc. or financial information) be clearly labeled with a legend or marking such as "Confidential information -- Not Public Record". This does not guarantee that the information so marked will necessarily be exempt from public release, as Commerce RI will make any final determination about which information is to be made available to the public, but this will be helpful in identifying any records which may be exempt.

## Section A. Technical Specifications

Please describe the following technical specifications of the energy storage component of the project by completing Table 1 (please complete the column that corresponds to the proposed energy storage component of the project). You may also attach manufacturer technical specifications for both the energy storage inverter and the energy storage device.

Table 1.			
Energy Storage Component Type	AC-Coupled Energy Storage Component	DC-Coupled Energy Storage Component	Packaged Energy Storage Component
<b>Energy Storage Component Specifications</b>			
		<i>Enter specifications for DC:DC converter</i>	
Manufacturer			
Model Number			
Rated Continuous Power Output (kW)			
Total Energy Capacity (kWh)			
<b>Usable</b> Energy Capacity (kWh)			
<b>Inverter Specifications</b>			
Manufacturer		See specifications for PV inverter on REF Small-Scale or Commercial-Scale Application	N/A
Model Number			
Rate Continuous Power Output (kW)			
Operating Voltage			
<b>Battery Module Specifications</b>			
Manufacturer			N/A
Model Number			
Quantity			
Operating Voltage			
Energy Capacity (kWh)			
Space for additional notes if needed:			

Expected Date of Solar Component Installation:	
Expected Date of Storage Component Installation:	



Please calculate the maximum continuous power rating the energy storage component of the project can deliver over three hours using the following formula in Table 2. Please note that generation from the renewable energy component does not count toward the maximum continuous power rating of the energy storage component.

$$\text{Maximum Continuous Power Rating} = \min\left(\frac{\text{total battery capacity in Wh}}{3 \text{ hours}}, \text{maximum continuous power rating of inverter in W}\right)$$

<b>Table 2.</b>				
<b>Row</b>	<b>Term</b>	<b>Calculation</b>	<b>Value</b>	<b>Units</b>
1	Usable battery capacity	Enter value from spec sheet		Wh
2		Divide Row 1 by 3		W
3	Maximum continuous power rating of inverter	Enter value from spec sheet		W
4	Maximum continuous power rating of energy storage component	Enter the smaller of the two values in Rows 2 and 3		W

## Section B. Funding Data

Please calculate the anticipated total amount of the energy storage adder awarded to this project by following the steps in the table below:

$$\begin{aligned} \text{total amount } \$ & \\ &= \text{minimum}(\text{maximum continuous power rating of energy storage component} \\ &\quad * \$0.50/W, \quad \$40,000) \end{aligned}$$

Table 3.				
Row	Term	Calculation	Value	Units
1	Maximum continuous power rating of energy storage component	Enter value from Table 2 Row 4		W
2	Uncapped adder total	Multiple Row 1 by \$0.50/W		\$
3	Total adder amount	Enter the smaller of the value in Row 2 and \$40,000		\$

Please list all anticipated funding and financing sources for the energy storage component in Table 4:

Table 4.			
Funding Component	Confirmed or Pending	Amount	
Anticipated total amount of the REF Energy Storage Adder awarded to this project from Table 3 Row 3	Pending	\$	
Federal Investment Tax Credit (ITC)		\$	
Anticipated total revenue from participating in National Grid's Connected Solutions program for two seasons (enter \$0 if owner chooses to opt out of enrollment)		\$	
Other: please specify		\$	
Other: please specify		\$	
Other: please specify		\$	
<b>Total</b>		\$	

Financing Component	Specify Loan/Financing Name/Type	Confirmed or Pending	Amount	
Loan 1			\$	
Loan 2			\$	
Loan 3			\$	
<b>Total</b>			\$	

## Section C. Eligible Technology Attestation

By checking the following statement, the applicant certifies that:

- The energy storage component of the project meets all eligibility criteria for National Grid's Connected Solutions program.

Failure to confirm the above statement will render the application ineligible for the energy storage adder.

<b>Name of applicant</b> (please print)	
<b>Signature</b> (please sign)	X
<b>Date</b> (please print)	

**Section D. Connected Solutions Enrollment**

**To be completed by the applicant:**

By checking one (and only one) of the following statements, the applicant certifies that:

- The energy storage component of the project is eligible for National Grid’s Connected Solutions program and will be enrolled in National Grid’s Connected Solutions program within one (1) month of project completion. The owner has been provided sufficient information about National Grid’s Connected Solutions program, understands how to participate, and understands the potential magnitude of revenue from active participation.
- The energy storage component of the project is eligible for National Grid’s Connected Solutions program, but the owner is not an electric distribution customer of National Grid.
- The energy storage component of the project is eligible for National Grid’s Connected Solutions program, but the owner has chosen to opt out of enrollment. The owner has been provided sufficient information about National Grid’s Connected Solutions program, understands how to participate, and understands the potential magnitude of lost revenue from not participating in the program.

Failure to check any of the above statements will render the application ineligible for the energy storage adder. Please note that selection and award amount from the REF energy storage adder is *not* dependent on which statement is selected. Please note that National Grid reserves the right to limit participation on a first-come, first-served basis based on total program budget.

<b>Name of applicant</b> (please print)	
<b>Signature</b> (please sign)	X
<b>Date</b> (please print)	



**To be completed by the owner, if the owner is different than the applicant:**

By checking one (and only one) of the following statements, the owner certifies that:

- The energy storage component of the project will be enrolled in National Grid’s Connected Solutions program. The owner has been provided sufficient information about National Grid’s Connected Solutions program, understands how to participate, and understands the potential magnitude of revenue from active participation.
- The owner is not an electric distribution customer of National Grid.
- The owner has chosen to opt out of enrollment in National Grid’s Connected Solutions program. The owner has been provided sufficient information about National Grid’s Connected Solutions program, understands how to participate, and understands the potential magnitude of lost revenue from not participating in the program.

Failure to check any of the above statements will render the application ineligible for the energy storage adder. Please note that selection and award amount from the REF energy storage adder is *not* dependent on which statement is selected. Please note that National Grid reserves the right to limit participation on a first-come, first-served basis based on total program budget.

<b>Name of owner</b> (please print; please enter N/A if the owner is the same as the applicant)	
<b>Signature</b> (please sign)	X
<b>Date</b> (please print)	



**Section E. Attachments**

Please submit the following documents in addition to all documents required for the Small-Scale Program or Commercial-Scale Program. Please complete Table 6 below by entering “Yes” or “No” in each box. If any of the attachments are absent, please provide an explanation.

Attachment	Yes or No
The turnkey contract includes all terms and conditions related to the energy storage component	
Total system one-line or three-line electrical drawing, includes both the energy storage component and the renewable energy component	
Proof of funds for the remainder of the energy storage component of the project	
Layout drawing showing proposed placement of the energy storage component on the property or in the building	
Workmanship warranty for the energy storage component	
Manufacturers warranties for all major equipment in the energy storage component	
Section G. Cost Data	



**Section F. Application Addendum Authorization**

The undersigned is an authorized representative of the Applicant listed below with the authority to bind the company for the proposed Renewable Energy Project. The Applicant has read, understands, and agrees to be bound by the terms and conditions provided by the Rhode Island Commerce Corporation (COMMERCE RI).

**I certify that:**

- All statements made in this Application in its entirety including all attachments, appendices, etc. are true and correct to the best of my knowledge.
- The Applicant is neither a person subject to the Rhode Island Code of Ethics nor a person within the scope of R.I.G.L. § 36-14-5(h)
- The Applicant has not been convicted of bribery or attempting to bribe a public official or employee of the COMMERCE RI or of the State, has not been disqualified from an awarded contract with COMMERCE RI or the State, and has never defaulted on work awarded by the COMMERCE RI or the State.
- The Applicant understands that customers participating in the Renewable Energy Fund Program are not eligible for participation in the Renewable Energy Growth Program.
- The Applicant shall comply with the Rules and Regulations for the Renewable Energy Development Fund Programs.

Category	Please print. Sign on the grey fields.
Legal name of applicant	
Name of customer site	
Zip code of project site	
Company or department name	
Signature of applicant's authorized representative	X
Name of authorized representative	
Position title/company	
Date signed	



**Energy Storage Adder Pilot Program – Application Addendum – Section K. Cost Data**

**Section G. Cost Data**

Please describe the following project costs and funding streams for the energy storage component of the project by completing Table 5. These costs are the incremental costs of the energy storage component beyond the costs required for the solar component.

<b>Table 5.</b>		
<b>Cost Component</b>	<b>Cost</b>	
Inverter costs	\$	
Energy storage device costs	\$	
Supplemental electrical supplies and materials	\$	
Labor costs	\$	
Additional costs of building and/or electrical permitting beyond what is required for the solar component	\$	
Costs of interconnection application (if applicable)	\$	
Other: please specify	\$	
Other: please specify	\$	
<b>Total</b>	<b>\$</b>	