

EVERSOURCE – NEW HAMPSHIRE
INTERCONNECTION STANDARDS FOR INVERTERS
SIZED UP TO 100 KVA

Simplified Process Interconnection Application and Service Agreement

[submit form via email to: NHDG@eversource.com]

Eversource Application Project ID#: _____

Contact Information:

Legal Name and Address of Interconnecting Customer (or, Company name, if appropriate)

Customer or Company Name (print): _____

Contact Person, if Company: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

Alternative Contact Information (e.g., System installation contractor or coordinating company, if appropriate):

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

Electrical Contractor Contact Information (if appropriate):

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone (Daytime): _____ (Evening): _____

Facsimile Number: _____ E-Mail Address: _____

Facility Site Information:

Facility (Site) Address: _____

City: _____ State: NH Zip Code: _____

Electric

Service Company: Eversource Account Number: _____ Meter Number: _____

Account and Meter Number: Please consult an actual Eversource electric bill and enter the correct Account Number and Meter Number on this application. If the facility is to be installed in a new location, please provide the Eversource Work Request number.

Eversource Work Request # _____

Non-Default' Service Customers Only:

Competitive Electric

Energy Supply Company: _____ Account Number: _____

(Customer's with a Competitive Energy Supply Company should verify the Terms & Conditions of their contract with their Energy Supply Company.)

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Facility Machine Information:

Generator/ _____ Model Name & _____
Inverter Manufacturer: _____ Number: _____ Quantity: _____

Nameplate Rating: _____ (kW) _____ (kVA) _____ (AC Volts) Phase: Single ☐ Three ☐

Nameplate Rating: The Max AC Nameplate rating of the individual inverter.

**If 'Yes' Please complete the
'Battery Storage/Backup
Supplemental Form' page 6.**

System Design Capacity: _____ (kW) _____ (kVA) Battery: Yes ☐ No ☐

System Design Capacity: The system total of the inverter AC ratings. If there are multiple inverters installed in the system, this is the sum of the AC nameplate ratings of all inverters.

Net Metering: If Renewably Fueled, will the account be Net Metered? Yes ☐ No ☐

Prime Mover: Photovoltaic ☐ Reciprocating Engine ☐ Fuel Cell ☐ Turbine ☐ Other _____

Energy Source: Solar ☐ Wind ☐ Hydro ☐ Diesel ☐ Natural Gas ☐ Fuel Oil ☐ Other _____

Inverter-based Generating Facilities:

UL 1741 / IEEE 1547.1 Compliant (Refer To Part Puc 906 Compliance Path For Inverter Units, Part Puc 906.01 Inverter Requirements)

Yes ☐ No ☐

The standard UL 1741.1 dated May, 2007 or later, "Inverters, Converters, and Controllers for Use With Independent Power Systems," addresses the electrical interconnection design of various forms of generating equipment. Many manufacturers choose to submit their equipment to a Nationally Recognized Testing Laboratory (NRTL) that verifies compliance with UL 1741.1. This term "Listed" is then marked on the equipment and supporting documentation. ***Please include, any documentation provided by the inverter manufacturer describing the inverter's UL 1741/IEEE 1547.1 listing.***

External Manual Disconnect Switch:

An External Manual Disconnect Switch shall be installed in accordance with 'Part Puc 905 Technical Requirements For Interconnections For Facilities, Puc 905.01 Requirements For Disconnect Switches and 905.02 Disconnect Switch.'

Yes ☐ No ☐

Location of External Manual Disconnect Switch: _____

Project Estimated Install Date: _____ Project Estimated In-Service Date: _____

Interconnecting Customer Signature:

I hereby certify that, to the best of my knowledge, all of the information provided in this application is true and I agree to the **Terms and Conditions for Simplified Process Interconnections** attached hereto:

Customer Signature: _____ Title: _____

Print Name: _____ Date: _____

Please include a one-line and/or three-line diagram of proposed installation. Diagram must indicate the generator connection point in relation to the customer service panel and the Eversource meter socket. Applications without such a diagram may be returned.

For Eversource Use Only

Approval to Install Facility:

Installation of the Facility is approved contingent upon the Terms and Conditions For Simplified Process Interconnections of this Agreement, and agreement to any system modifications, if required.

Are system modifications required? Yes ☐ No ☐ To be Determined ☐

Company Signature: _____ Title: _____ Date: _____

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Terms and Conditions for Simplified Process Interconnections

Company waives inspection/Witness Test: Yes ☐ No ☐

Date of inspection/Witness Test: _____

1. **Construction of the Facility.** The Interconnecting Customer may proceed to construct the Facility in compliance with the specifications of its Application once the Approval to Install the Facility has been signed by the Company. Such Approval relates only to the Eversource and Puc 900 electrical interconnection requirements, and does not convey any permissions or rights associated with permits, code enforcement, easements, rights of way, set back, or other physical contruction issues.
2. **Interconnection and operation.** The Interconnecting Customer may operate Facility and interconnect with the Company's system once the all of the following has occurred:
 - 2.1. **Municipal Inspection.** Upon completing construction, the Interconnecting Customer will cause the Facility to be inspected or otherwise certified by the local electrical wiring inspector with jurisdiction.
 - 2.2. **Certificate of Completion.** The Interconnecting Customer returns the Certificate of Completion to the Agreement to the Company at address noted.
 - 2.3. **Company has completed or waived the right to inspection.**
3. **Company Right of Inspection.** The Company will make every attempt within ten (10) business days after receipt of the Certificate of Completion, and upon reasonable notice and at a mutually convenient time, conduct an inspection of the Facility to ensure that all equipment has been appropriately installed and that all electrical connections have been made in accordance with the Interconnection Standard. The Company has the right to disconnect the Facility in the event of improper installation or failure to return Certificate of Completion. All projects larger than 10 kVA will be witness tested, unless waived by the Company.
4. **Safe Operations and Maintenance.** The Interconnecting Customer shall be fully responsible to operate, maintain, and repair the Facility.
5. **Disconnection.** The Company may temporarily disconnect the Facility to facilitate planned or emergency Company work.
6. **Metering and Billing.** All renewable Facilities approved under this Agreement that qualify for net metering, as approved by the Commission from time to time, and the following is necessary to implement the net metering provisions:
 - 6.1. **Interconnecting Customer Provides:** The Interconnecting Customer shall furnish and install, if not already in place, the necessary meter socket and wiring in accordance with accepted electrical standards. In some cases the Interconnecting Customer may be required to install a separate telephone line.
 - 6.2. **Company Installs Meter.** The Company will make every attempt to furnish and install a meter capable of net metering within ten (10) business days after receipt of the Certificate of Completion if inspection is waived, or within 10 business days after the inspection is completed, if such meter is not already in place.
7. **Indemnification.** Interconnecting Customer and Company shall each indemnify, defend and hold the other, its directors, officers, employees and agents (including, but not limited to, Affiliates and contractors and their employees), harmless from and against all liabilities, damages, losses, penalties, claims, demands, suits and proceedings of any nature whatsoever for personal injury (including death) or property damages to unaffiliated third parties that arise out of, or are in any manner connected with, the performance of this Agreement by that party, except to the extent that such injury or damages to unaffiliated third parties may be attributable to the negligence or willful misconduct of the party seeking indemnification.
8. **Limitation of Liability.** Each party's liability to the other party for any loss, cost, claim, injury, liability, or expense, including reasonable attorney's fees, relating to or arising from any act or omission in its performance of this Agreement, shall be limited to the amount of direct damage actually incurred. In no event shall either party be liable to the other party for any indirect, incidental, special, consequential, or punitive damages of any kind whatsoever.
9. **Termination.** This Agreement may be terminated under the following conditions:
 - 9.1. **By Mutual Agreement.** The Parties agree in writing to terminate the Agreement.
 - 9.2. **By Interconnecting Customer.** The Interconnecting Customer may terminate this Agreement by providing written notice to Company.
 - 9.3. **By Company.** The Company may terminate this Agreement (1) if the Facility fails to operate for any consecutive 12 month period, or (2) in the event that the Facility impairs or, in the good faith judgment of the Company, may imminently impair the operation of the electric distribution system or service to other customers or materially impairs the local circuit and the Interconnecting Customer does not cure the impairment.
10. **Assignment/Transfer of Ownership of the Facility.** This Agreement shall survive the transfer of ownership of the Facility to a new owner when the new owner agrees in writing to comply with the terms of this Agreement and so notifies the Company.
11. **Interconnection Standard.** These Terms and Conditions are pursuant to the Company's "Interconnection Standards for Inverters Sized Up to 100 kVA" for the Interconnection of Customer-Owned Generating Facilities, as approved by the Commission and as the same may be amended from time to time ("Interconnection Standard"). All defined terms set forth in these Terms and Conditions are as defined in the Interconnection Standard (see Company's website for the complete document).

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Simplified Process Interconnection Application
Customer Requirements “Checklist”

Please provide the following information with your Application.

☐ Electrical Sketch / Site Plan

- Does not need to be PE stamped.
- Must show the existing/proposed service, including the Eversource revenue metering, and how the proposed generation will interconnect to it.
- Can be hand drawn, but must be legible.
- Include: Size of main breaker, external AC disconnect switch (when required or installed), kW rating, Inverter(s) and existing or back up generation (if applicable).
- AC generator disconnects are required for systems over 10.0 kW. NOTE: Eversource may require a disconnect switch for smaller systems in accordance with Part PUC 905 Technical Requirements for Interconnections For Facilities, PUC 905.01 Requirements For Disconnect Switches and 905.02 Disconnect Switch.
- Must show actual proposed equipment. Ex: Do NOT include “MIN 60A” for a disconnect size.

☐ Provide photograph of Eversource revenue meter that the generation will interconnect behind (meter number must be clearly readable). If property has multiple meters, it is important that the application documentation clearly identify which meter relates to the generation source.

☐ Inverter cut sheet. Provide UL 1741 and IEEE 1547 certification (if not already on file).

☐ Eversource Work Request number if; a new service or a service upgrade.

☐ **For projects with Max AC inverter rating greater than 10.0 kW**, also submit a Supplemental Review Agreement and mail the required fee (see page 5 of this application). The required Supplemental Review fee is based on the table below and must be paid via paper check payable to “Eversource Energy” and mailed to the address below.

Project Size (Max AC rating of inverters)	Supplemental Review Fee
>10 kW to 30 kW	\$125
>30 kW to 50 kW	\$500
>50 kW to 100 kW	\$1000

Applications submitted without the appropriate documentation will be delayed in processing and/or returned.

Submit form and supporting information via email to: NHDG@eversource.com

Hard copies and checks may be mailed to:

Eversource – Distributed Generation (NH)
780 North Commercial Street
Manchester, NH 03105-0330

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Supplemental Review Agreement

This Agreement, dated _____, is entered into by and between...

_____ (“Interconnecting Customer”) and Eversource (“Company”), for the purpose of setting forth the terms, conditions and costs for conducting a Supplemental Review relative to the Interconnection Process as defined in Section 1.0 and outlined in Section 3.0 of the Interconnection Standard. This Supplemental Review pertains to the interconnection application the Interconnecting Customer has filed with the Company for interconnecting a _____kW Facility (Max AC rating) at _____(Facility address). If the Supplemental Review determines the requirements for processing the application including any System Modifications, then the modification requirements and costs for those modifications will be identified and included in a billing statement sent by the Company to the Interconnecting Customer for authorization and payment. If the Supplemental Review does not determine the requirements, it will include a proposed Impact Study Agreement as part of the Company’s standard interconnection process which will include an estimate of the cost of the study.

The Interconnecting Customer agrees to provide, in a timely and complete manner, all additional information and technical data necessary for the Company to conduct the Supplemental Review not already provided in the Interconnecting Customer’s application.

All work pertaining to the Supplemental Review that is the subject of this Agreement will be approved and coordinated only through designated and authorized representatives of the Company and the Interconnecting Customer. Each party shall inform the other in writing of its designated and authorized representative, if different than what is in the application.

The fee for this Supplemental Review is shown in the table below:

Project Size (Max AC rating of inverters)	Supplemental Review Fee
>10 kW to 30 kW	\$125
>30 kW to 50 kW	\$500
>50 kW to 100 kW	\$1000

No work will be performed until payment is received. Make check payable to “Eversource Energy”. Send to:

Eversource – Distributed Generation (NH)
780 North Commercial Street
Manchester, NH 03105-0330

Please indicate your acceptance of this Agreement by signing below.

Interconnecting Customer

_____/_____/_____
Date

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Battery Storage/Backup Supplemental Form

This form is supplemental to the Simplified Process Interconnection Application and Service Agreement. If you are installing batteries in conjunction with your solar project or independently, Eversource requires you to submit the 'Battery Storage/Backup Supplemental Form' with your Simplified Process Interconnection Application and Service Agreement.

Is this Battery an add-on to an existing customer-generator facility? Yes ☐ No ☐ Eversource Project ID#: _____

Is this Battery: Battery (DC Coupled - No Export) + Solar Yes ☐ No ☐ Battery (AC Coupled - Export) + Solar Yes ☐ No ☐
Battery Only (AC Coupled - Export) Yes ☐ No ☐

Does the battery share an inverter with a Renewable Energy system? Yes ☐ No ☐

If Yes, can the battery be charged from the Eversource electric distribution grid? Yes ☐ No ☐

If No, how is the battery Energy Storage System prevented from being charged by the electric distribution system?

Shared Inverter Information (DC coupled inverters with multiple sources)

Quantity: _____

Battery System Manufacturer: _____ Model: _____ Battery Type: _____

Battery Charge/Discharge Rating: _____ kW (AC) Battery Energy Capacity (kWh): _____ PF Setting: _____

Inverter UL1547 Listed: Yes ☐ No ☐ DC Source/Prime Mover: _____

Please include, any documentation provided by the inverter manufacturer describing the inverter's UL 1741/IEEE 1547.1 listing.

Dedicated Inverter Information (inverters with only batteries for DC source)

Quantity: _____

Battery System Manufacturer: _____ Model: _____ Battery Type: _____

Battery Charge/Discharge Rating: _____ kW (AC) Battery Energy Capacity (kWh): _____ PF Setting: _____

Inverter UL1547 Listed: Yes ☐ No ☐ DC Source/Prime Mover: _____

Please include, any documentation provided by the inverter manufacturer describing the inverter's UL 1741/IEEE 1547.1 listing.
Intended Use and Operation:

Intended Use and Operation

Please provide a sequence of operations explaining how the system will operate under normal and off-grid conditions (explain how the battery will disconnect and reconnect to the grid). Please provide the type of switching and indicate if it is self-contained or utilizes separate components. An example would be self-contained device with DC to AC inverter, battery charger, and integrated AC transfer switch. On your on-line diagram please label the various equipment (inverter(s), charge controllers, switches, etc.) so that your written operational equipment discussion matches the one-line diagram. If your system rated kW out flow to the grid is restricted by control logic (outflow kW is less than inverter total capacity), then indicate the worst case out-flow capacity.

Signature

I hereby certify that, to the best of my knowledge, all of the information provided in this form is complete and true. I consent to permit representatives to exchange information regarding the Energy Storage system to which this form applies.

Customer Signature: _____ Date: _____