

SIMPLIFIED NEW HAMPSHIRE UTILITY INTERCONNECTION REQUIREMENTS APPENDIX D

A simplified interconnection application process applies for inverter-based projects up to 100 kW connecting to the electric grid. Although each utility's application form is slightly different in appearance, key elements include: Applicant Information, Generating Facility Information, Installation Information, and Signatures and Certification Information as follows:

- * Applicant Information:
 - Customer-generator's name, mailing address
 - Facility location (if different from mailing address)
 - Day & evening phone numbers
 - Alternate contact information
 - Name of local distribution utility and customer-generator's account number, and (if different from distribution utility) name of electricity supplier and account number
- * Generating Facility Information:
 - Generator type (solar, wind, hydro, other)
 - Generator manufacturer, model name and number
 - Number of phases of the unit (single or 3-phase)
 - Power rating of generation output of system in kW
 - If applicable, inverter manufacturer, model name and number
 - Whether a battery backup will be used or not
 - Whether an exterior manual disconnect switch for utility use shall be installed, if the generation output of the unit is less than or equal to 10 kW in size
- * Installation Information:
 - Whether generator will be owner installed
 - Installation date
 - Anticipated interconnection date
 - Name, address phone and license number of installing electrician, if applicable

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- Name and company affiliation of vendor selling the generator to the customer-generator
- * Signatures and Certification Information:
 - Vendor certification
 - Signature, with date, of vendor certifying that the system hardware is in compliance with PUC 900 (UL and IEEE Standards)
 - Electrician/Town Inspector Certification
 - Certification, if applicable, that system has been installed in compliance with local municipal building and electrical codes. Signed and dated certificate by applicable local code official, or copy of signed and dated final inspection certificate from municipality or electrician
 - Customer Certification, signed and dated certification by customer-generator that:
 - Customer-generator has installed and shall operate the generation system in compliance with applicable electrical standards
 - Initial start-up test (required by PUC 905.04) has been successfully completed
 - To best of customer-generator's knowledge, all information contained in the interconnection notice is true and correct
 - Start-up Test Certification, dated and witnessed (unless waived by distribution utility)
 - Utility Certification
 - Compliance with Commission net metering rules
 - Interconnection Date Certification ← ***typically signed and sent to installer for use in state rebate application process***

Before submitting a Simplified Interconnection (Net Metering) Application to your local electric utility, it is highly recommended that you review Chapter PUC 900 of the New Hampshire Code of Administrative Rules – Net Metering for Customer-Owned Renewable Energy Generation Resources of 1,000 Kilowatts or Less – which can be found at <http://www.puc.nh.gov/Regulatory/Rules/PUC900.pdf>. Following are details from sections of PUC Rule 900 that are of specific relevance for smaller systems (including residential-sized solar PV systems):

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- * “Small net-metering customer” means a customer-generator as defined by PUC 902.03 with a total peak generating capacity of not more than 100 kW. The term includes “small customer-generator.”

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- * Eligibility for net energy metering is available on a first-come, first-served basis within each distribution utility service area under the jurisdiction of the commission until such time as the total rated generating capacity owned and operated by customer-generators within the respective utility service area totals or would exceed the following amounts:¹
 - Liberty Utility (dba Granite State Electric Company), 4.12 MW
 - New Hampshire Electric Cooperative, Inc., 3.16 MW
 - Public Service Company of New Hampshire, 36.55 MW
 - Unitil Energy Systems, Inc., 6.17 MW
- * Small customer-generators shall have a single net meter that internally measures the inflow and outflow of electricity such that the net electricity usage or production can be periodically read. Small customer-generators shall not be required to pay for the installation of this meter.
- * Utilities will conduct a pre-application review, upon customer request to allow for informal distribution utility review of proposed project and information on:
 - Whether customer-generator's distribution utility is under its MW cap
 - Whether facility and electric grid interface unit will likely comply with PUC 900 requirements
 - Whether generator is in area/service location likely to require any upgrade or study
- * Interconnection Application forms must be filed with distribution utility where the residential solar PV system is going to be installed.
 - Copies of the application forms are available for download on each utilities' web site
- * Upon Request – distribution utility shall provide customer-generator written confirmation that the interconnection application has been received and the date of receipt
 - Immediately – if application is filed in person, or
 - Within 10 business days of receipt, with a written acknowledgement that

¹ Pursuant to RSA 362-A:9 – These totals are calculated as a number equal to 50 megawatts multiplied by each such utility's percentage share of the total 2010 annual coincident peak energy demand distributed by all such utilities as determined by the commission.

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- Application is complete, or
- Application is incomplete and what information is necessary to complete the requirements

Please note that such acknowledgement is only the date and fact of filing, but not the approval of the filing.

- * Until a witness test has been performed, customer-generator shall have no right to operate in parallel unless a witness test has been previously waived by the distribution utility on the application form.
 - All projects larger than 10 kW shall be subject to a witness test unless the distribution utility has waived the witness test on the application form
- * If customer-generator does not substantially complete construction within 12 months after receiving application approval from distribution utility, the distribution utility shall require the customer-generator to reapply for interconnection
- * Configuration of Transformer Serving the Customer-Generator's Generation Site
 - Existing transformer serving customer-generator load may be used if it will not significantly degrade the power quality or voltage regulation on the secondary distribution system and if such usage will not create problems for distribution utility system relaying
 - Cost of any improvements needed to the site transformer serving the net metered facility shall be borne according to the distribution utility's approved tariff