



Vermont Small Scale Renewable Energy Incentive Program Small Wind System

Project Documentation and Base Incentive Request

Incomplete documentation will be returned to the Installer

Please read carefully and complete all sections. Incomplete or incorrectly completed forms will cause delay, may be returned to the applicant, and may not be approved for incentive payment.

Incentive Reservation Information

Incentive Reservation Number: _____ (From Approval Letter)

If a Residential system, Customer Name: _____

If a Non-Residential system, Company/Organization Name: _____

Installer Company: _____

Commissioned by (must be a REV Wind Partner): _____

Installed by (individual must be under direct contract, or an employee with the REV Wind Partner listed above):

Incentive Reservation Expiration Date: _____ (From Approval Letter)

Documentation Checklist

All items MUST be checked (included) or marked N/A

- _____ Documentation Checklist (this page)
- _____ Project Change Information Sheet (filled out even if there are no changes)
- _____ Final Incentive Calculation and System Cost Worksheet
- _____ Copy of Final Customer Invoice
 - A copy of the final invoice (dated and itemized) for the system as installed must be included. **The originally approved Vermont Small Scale Renewable Energy Incentive amount must be listed as a line item on the final invoice, unless the installed system is smaller than that approved, in which case the calculation from the Final Incentive Calculation Form should be listed.**
- _____ Copy of Certificate of Public Good (all pages)
- _____ Project Technical Documentation Worksheet
- _____ One-line Diagram – following all instructions in the Project Technical Documentation Worksheet
 - Cut or specification sheets for major components are strongly recommended but not required

RERC USE ONLY:

Date Rec'd: _____

Res. Number _____

Date Appvd: _____ Page 1 of 9

____ Signatures/ Certifications Page

- All customer certification items must be checked off by the customer
- Customer and Installer must sign

____ System Photographs – following all instructions in the Project Technical Documentation Worksheet (photographs must be submitted electronically).

____ **Dated** photo of meter with the numbered tag visible on start-up

____ **For non-residential projects** - Davis-Bacon Act required reporting forms for laborers and merchants working on site (can be found at <http://www.dol.gov/whd/forms/wh347.pdf>) **These forms may not be included with the Project Documentation and Final Incentive Request form if completion of the Project Documentation and Final Incentive Request form occurs several weeks after the project has been installed.**

____ **For all projects** - American Recovery and Reinvestment Act of 2009 required reporting information:

Employee/Subcontractor Role (e.g. admin staff or mason)	40 hour work week (y/n - if no please write in how many hours per week for personnel)	# of hours spent on project	# of non-Federal hours*

*These are jobs that are paid by non-federal funds that are attracted in by Recovery Act funding.

____ **Copy of Letter of Compliance with Section 106 of the National Historic Preservation Act from the VT State Historic Preservation Office** Mark N/A if building is less than 50 years old as indicated on the Reservation Application and if there is no significant ground disturbance.

____ **If project is for a public building or public work, it complies with the “Buy America Provision”.** Mark N/A if not applicable.

____ **Property Certification – provide serial numbers for individual equipment components valued at more than \$5,000:**

Component description	Serial Number

Project Documentation and Final Incentive Request Form Instructions

1. Fill out the form entirely. All information is necessary for processing.

2. Mail the complete incentive packet to:

Vermont Small Scale Renewable Energy Incentive Program
255 South Champlain Street, Suite 7
Burlington, VT 05401

Information on renewable energy and the Vermont Small Scale Renewable Energy Incentive Program is available through the Renewable Energy Resource Center at www.nerc-vt.org or by calling 1-877-888-7372.

Project Change Information Sheet

Identify and explain any differences between the project **AS INSTALLED** and the information provided on the incentive reservation application form. If there have been changes, you must identify them below.

Incentive Reservation Form Section	CIRCLE THE CORRECT RESPONSE TO EACH	
Section A: Customer Information	NO CHANGES	CHANGE TO:
Section B: Contractor /Installer Information	NO CHANGES	CHANGE TO:
Section C: Equipment Information	NO CHANGES	CHANGE DOCUMENTED BELOW
<p>Changes to equipment require a full description of the equipment installed. Please give full information on all changes below: Manufacturer (turbine, tower, inverter), model #s, power ratings, number of turbines and/or inverters.</p> <p style="text-align: center;"><i>NOTE: Incentive reservations are based on the ORIGINAL equipment configuration unless approved AFTER review</i></p>		

Base Incentive Calculation and System Cost Worksheet

Total Turbine Output (as installed): _____ Watts (Circle one: AC or DC)

Wind Incentive Calculation:

Any changes between the system as proposed under the original, approved incentive reservation and the system as installed must be fully documented when the project documentation forms are submitted. Any such changes are subject to review and approval with respect to system eligibility and final incentive amount.

Original approved base incentive reservation amount: _____

[Total Turbine Output in Watts (as installed) – 2000W] x \$1.60 + \$6000 = _____

Final Requested Base Incentive amount: _____

Must be the lesser of:

- The amount calculated above
- \$25,000 for Residential Installations
- \$240,000 for C&I and Special category Installations

Expected annual energy production floor =
kwh per installed watt @ 4.5 m/s = rated watts = _____

Estimated Production Payment (to be paid 1-year from install date upon receipt of required documentation):

Total Estimated kWh x \$1.25 (2-5kW) = \$ _____
x \$0.85 (5-20kW) = \$ _____
x \$0.60 (20-150kW) = \$ _____

Calculate the above value then minus the Floor = _____

Are there changes from the Incentive Reservation Application? YES / NO

Explain: _____

Total Installed System Cost (before base incentive amount is removed): _____

Project Technical Documentation Worksheet

The following items are required and should be included with the final documentation:

1. All systems must be net-metered, utility-interconnected systems and must include a copy of their **Certificate of Public Good (CPG)**.
2. The installation and documentation must meet all of the requirements outlined in **Section D2: Production-based Incentive Requirements for Wind and Section E: Eligibility Requirements** of the **Small Wind Incentive Reservation Form**.
3. One-line diagram(s) and/or schematic showing system details **as installed** – including the following:
 - All major structural and mechanical components of the system, including base and anchor assemblies, tower height, guy supports, and turbine-to-tower attachment
 - All major field-installed electrical components, including inverter make and model, power conditioning equipment, and all associated wire in and out of the inverter
 - Detailed turbine information and details of the Wind System Output Circuit
 - Wire type and sizing, all DC and AC wire run lengths and wire size to all major system components, including grounding details
 - Conduit type and size where needed, number of conductors, and generator lead-to-tower conductor connections
 - Wind power source disconnecting means
 - Ratings for all circuit breakers and fuses
 - Locations of junction or combiner boxes
 - The utility disconnect type and location
 - Means and location of connecting to the building electrical system
 - For battery systems; charge controllers and non-wind generators where applicable
4. Photographs showing all major field-installed structural, mechanical and electrical components including:
 - Wind turbine
 - Balance of the system: all equipment necessary to integrate the wind system with the site load (i.e. turbine circuit wiring and management of wiring, fusing, disconnects, power processing equipment, batteries, charge controllers, location where wind system interconnects to the utility)
 - Attachment points and mechanical penetration points
 - All labeling associated with NEC posting requirements.
 - **Dated** photo of meter with the numbered tag visible on start-up.
5. Information as posted on the Wind Power Source Sign (permanently located on site at turbine disconnect, as required by the NEC). NOTE: Please use manufacturer's published ratings.

Operating Current:

Manufacturer's operating current range

Operating Voltage:

Manufacturer's operating current range

Maximum System Voltage:

Maximum System Current:

Project Technical Documentation Worksheet (cont.)

6. Information as posted on sign identifying AC point of connection (permanently located on site at AC point of connection, as required by NEC)

Maximum Operating Current:

 Inverter continuous output current rating

Operating AC Voltage:

 Nominal AC voltage at interconnect

7. Can the system operate independent of the grid as a stand-alone power source and in parallel with the grid?

_____ **Yes.** If so, there must be a sign at the main service disconnect notifying the type and location of the optional standby system – indicate on one-line schematic.

_____ **No,** the system is grid connected but is not capable of operating independently of grid power.

_____ **No,** the system is off-grid. **Off-grid systems are not eligible for incentive.**

8. Turbine Location: Tower mount (roof mount not eligible for incentive)

9. Tower height: _____ **feet (hub height) *at least 79' to qualify for production incentive***

10. Rotor diameter: _____

11. Estimated Average Annual Wind Speed at hub height: _____ (circle: m/sec or mph)

12. Estimated Annual Output of the system as installed: _____ kWh/year

13. Cut or specification sheets for major components (Strongly recommended, but not required)

14. Warranty Information:

Turbine: _____ years **(minimum of 5 yrs required)**

Inverter (Power conditioning center): _____ years **(minimum of 5 yrs required)**

Installation: _____ years **(minimum of 5 yrs required)**

15. The submission of digital or standard photographs of the installation is required. **Please sign here if we may use your photographs for program promotion.**

Production Incentive Technical Documentation Index

1. Net-metered turbines from 2 to 100 kW (turbines under 2kw will no longer be provided incentives).
2. Installer must estimate annual average wind speed, annual energy production, and identify the source of these estimates. The installed turbine must have a means to measure annual average wind speed with an anemometer at 1 rotor diameter below the hub centerline or from turbine mounted anemometer mounted on the nacelle. Installer will supply measured 1 year average wind speed, average wind power density and average power density wind speed.
3. The installer must provide a kWh meter socket and approved meter. VEIC to supply serial numbered meter tag. Installer is to supply a dated photo of meter with the numbered tag visible on start-up and after one year of operation.
4. Three tiers of turbines for production payments: (A) 2 – 5kw, (B) 5 – 20kw, (C) 20 – 100kw.
5. Minimum tower height is 24m (79').
6. All turbine capacity rated using the new AWEA Performance Standard (11 m/s).
7. Capacity rebate based on rated power output (AC watts) at 11 m/s at \$1.60/watt with a starting base of \$6000.00 for the first 2000 watts of rated capacity.
8. Production payment in \$/kWh actually generated over the first 12 months of operation.
9. Production payment only above a minimum floor of energy production based on an annual average wind speed of 4.5 m/s (10 mph). Assume a Raleigh wind distribution|
10. Floor = turbine rating, Production Payment = (Actual kWh/year – Floor) x rate. The production floor in kWh minimum production is around 4.3 m/s(9.5 mph) annual average wind speed for all turbines.
11. Expected annual energy production floor = kWh per installed watt @ 4.5 m/s = rated watts. .
12. Production payment paid on all energy produced in year at a \$/kWh rate minus the floor. Production is net AC kilowatt-hours delivered to the grid-connected net-metered facility.
13. No credit for downtime, broken equipment, weather, warranty issues, etc. One year net energy production is only number that matters..
14. Submit Final Wind Production-based Incentive Request with all required documentation no later than 1 year and 2 weeks from installation date.

Comment [se1]:

Comment [se2]: Explain

Signatures/Certifications

Residential Customer Certification

I certify that I meet the participant eligibility requirements as listed on the Incentive Reservation Form. I have also purchased the wind system described in this application and it has been installed and is operating at the location indicated above. I further certify that **(all items must be checked off by the customer)**:

- I am a residential customer, and am aware that the incentive payment will be made by check directly to me *only after* the installer has submitted the Final Project Documentation paperwork and received final approval, including any necessary site visits.
- I have been provided with a copy of a user's manual for this system and I am familiar with recommendations for the system's safe operation and maintenance.
- I have received and reviewed warranty information.
- I have received an estimate of the system's annual output.
- I am aware that the incentive program will be conducting limited site visits. If requested, I am willing to schedule and allow a site visit of the system for program verification.

I understand that any deliberate attempt to misrepresent information in this application will disqualify me from participation and all claims to incentives offered through Vermont's Small Scale Renewable Energy Incentive Program.

_____ / ____ / ____
Customer's Signature Date

Non-Residential Customer Certification

I certify that I meet the participant eligibility requirements as listed on the Incentive Reservation Form. I have also purchased the wind system described in this application and it has been installed and is operating at the location indicated above. I further certify that **(all items must be checked off by the customer)**:

- I am a non-residential customer, and am aware that the incentive payment will be made by check directly to my installer *only after* the installer has submitted the Final Project Documentation paperwork and received final approval, including any necessary site visits.
- I have been provided with a copy of a user's manual for this system and I am familiar with recommendations for the system's safe operation and maintenance.
- I have received and reviewed warranty information.
- I have received an estimate of the system's annual output.
- I am aware that the incentive program will be conducting limited site visits. If requested, I am willing to schedule and allow a site visit of the system for program verification.

I understand that any deliberate attempt to misrepresent information in this application will disqualify me from participation and all claims to incentives offered through Vermont's Small Scale Renewable Energy Incentive Program.

_____ / ____ / ____
Customer's Signature Date

Installer Certification

I certify that I have worked with the customer referenced above to install the wind system described above. The system is now fully installed and operational. It has been installed in accordance with the program's eligibility requirements, the Vermont Interconnection Safety and Technological Requirements (VT Public Service Board Order of April 21, 1999), and the National Electric Code®. I have also provided the customer with information on the warranty, safe operation, and maintenance of their system, including a copy of a user's manual for this system.

I understand that if I am installing a renewable energy system for a residential customer, the incentive payment will be made by check directly to the homeowner only after the installer has submitted the Final Project Documentation paperwork and received final approval, including any necessary site visits.

I understand that if I am installing a renewable energy system for a non-residential entity that I must abide by the reporting requirements set forth by the Davis-Bacon Act in order to receive the incentive payment, made by check directly to me.

I certify that this installation complies with all requirements set forth by the American Recovery and Reinvestment Act of 2009.

I understand that any deliberate attempt to misrepresent information in this application will disqualify me from participation in the program and all claims to incentives offered through Vermont's Small Scale Renewable Energy Incentive Program.

Installer's Signature

____/____/____
Date