



## Wind Project Technical Documentation Worksheet

Please complete both pages of this form with all required information. Technical information is reviewed electronically, therefore we require that each worksheet as well as supplemental information (photos and on-line diagrams) be submitted either via email to [partners@revermont.org](mailto:partners@revermont.org) or copied onto a CD-ROM and mailed via post to the address listed below.

Customer Name(s): \_\_\_\_\_ Phone: \_\_\_\_\_

Location of Installation: \_\_\_\_\_ Date of Installation: \_\_\_\_\_

Turbine Location:  Tower mount (roof mount not eligible for Vermont State Incentive Rebate Program)

Tower Height: \_\_\_\_\_ feet (hub height)

Rotor Diameter: \_\_\_\_\_

Estimated Average Annual Wind Speed at hub height: \_\_\_\_\_ ( m/sec or  mph)

Estimated Annual Output of the system as installed: \_\_\_\_\_ kWh/year

### Warranty Information:

Turbine: \_\_\_\_\_ years at \_\_\_\_\_ % rated power output (minimum of 1 yr required)

Inverter (power conditioning center): \_\_\_\_\_ years (minimum of 1 yr required)

Installation: \_\_\_\_\_ years (minimum of 1 yr required)

**Wind Power Source:** Information as posted on Wind Power Source Sign (permanently located on site at DC disconnect, as required by the NEC).

### Operating Current

\_\_\_\_\_  
Manufacturer's operating current range

### Operating Voltage

\_\_\_\_\_  
Manufacturer's operating current range

### Maximum System Voltage

\_\_\_\_\_

### Short Circuit Current

\_\_\_\_\_

**AC Point of Connection:** 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

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. Only one off-grid system per application can be submitted as proof of professional experience.

**One-line diagram(s)\*** and/or schematic for system as installed – showing all major field-installed structural, mechanical, and electrical components including:

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| <p><b>a.</b> All major structural and mechanical components of the system, including base and anchor assemblies, tower height, guy support and turbine-to-tower attachment</p> <p><b>b.</b> All major field-installed electrical components including inverter make and model, power conditioning equipment and all associated wire in and out of the inverter.</p> <p><b>c.</b> Detailed turbine information and details of the Wind System Output Circuit</p> <p><b>d.</b> Wire type and sizing, all DC and AC wire run lengths and wire size to all major system components including grounding details</p> | <p><b>e.</b> Conduit type and size where needed, number of conductors and generator lead-to-tower conductor connections</p> <p><b>f.</b> Wind power source disconnecting means</p> <p><b>g.</b> Ratings for all circuit breakers and fuses</p> <p><b>h.</b> Locations of junction or combiner boxes</p> <p><b>i.</b> The utility disconnect type and location</p> <p><b>j.</b> Means and location of connecting to the building electrical system.</p> <p><b>k.</b> For battery systems; charge controllers and non-wind generators where applicable</p> |
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**Labeled digital photographs** showing all major field-installed structural, mechanical and electrical components listed below. Photos must be submitted electronically. They can be sent as email attachments to [partners@revermont.org](mailto:partners@revermont.org) or copied onto a CD-ROM and mailed via post to the address listed at the bottom on this page.

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| <p><b>a.</b> Turbine from two different perspectives</p> <p><b>b.</b> Attachment points and mechanical penetration points</p> <p><b>c.</b> All labeling required by NEC posting requirements</p> <p><b>d.</b> Dated photo of meter with the numbered tag visible on start up</p> | <p><b>e.</b> 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).</p> <p><b>f.</b> System grounding</p> |
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