



Bolton Valley

Vermont. Naturally.

Bolton Valley Wind Tower Information

Wind Tower Specifications

- Northwind 100 Wind Turbine manufactured by Northern Power Systems
- The turbine is made in Barre, VT
- Much smaller than turbines in traditional wind farms
- 121 feet from ground to top of tower
- 156 feet from ground to top of blade
- Each blade is 33-feet in length
- Turbine will have a footprint of only 10 feet
- There is a lightning conductor on each blade
- Will not be obviously visible from beyond five miles of its site on the mountain

Operations and Safety

- Top of tower is accessed via internal tower ladder
- Direct drive: No gear box; rotor directly inputs energy into the generator
- Blades are protected against icing by a Teflon coating. This same coating is used on towers in the Bering Sea
- Turbine operates in temperatures to -25 degrees Fahrenheit
- The turbine can survive wind speeds to 133 miles-per-hour
- Emits only 55 decibels when spinning

Projected Power Generation

- The turbine will be set up on Net Metering
- The turbine is projected to produce in excess of 300,000 kilowatt hours annually, or approximately the same power used by 40-to-45 Vermont households.

Construction Details

- This is the first wind turbine constructed at a Vermont ski area
- Limited clearing necessary at construction site
- Tower to be located near top of the Vista Quad lift in an existing clearing adjacent to the ski patrol hut
- Vermont subcontractors being employed for site preparation and construction

- Total investment in project exceeds \$800,000