

# Generator models and specifications for wind power

Who makes a wind turbine generator?

worldwide. ABB has been designing and manufacturing generators for wind turbines for over twenty years. All generator types are specifically designed for wind turbine applications. Electrical performance of an individual generator is optimized in co-operation with the wind turbine manufacturer.

Are all generators designed for wind turbine applications?

All generator types are specifically designed for wind turbine applications. Electrical performance of an individual generator is optimized in co-operation with the wind turbine manufacturer. This close co-operation ensures a superior generator design, with high electrical performance at full and partial load.

Who will receive the wind turbine specifications report?

This Wind Turbine Specifications Report will be provided to Aboriginal communities, the Municipality of Kincardine, County of Bruce and the public following the distribution requirements and timing constraints outlined in O. Reg. 359/09, as amended, and the Draft Technical Guide to Renewable Energy Approvals (MOE, 2012; MOE, 2012).

How much electricity does a Siemens wind turbine generate?

The three 49 m blades of the Siemens SWT-2.3-101 wind turbine will generate electricity between the wind speeds of 3 m/s (i.e., the cut-in wind speed) and 25 m/s (i.e., the cut-out wind speed) and will reach its nameplate capacity of 2.3 MW when wind speeds reach approximately 12-13 m/s (Siemens, 2011).

What acoustic emission data is included in the wind turbine specifications report?

Table 1, below, highlights the requirements and how they are addressed in this Wind Turbine Specifications Report. 1 Acoustic emission data includes the overall sound power level, measurement uncertainty value, octave-band sound power levels (linear weighted), tonality and tonal audibility.

How does a Siemens wind turbine generator work?

Conduction from the nacelle to the earth via the tower and heavy bonding of the foundation. The Siemens SWT-3.2-101 wind turbine generator has a maximum broadband sound power level of 106.0 dBA. Additional acoustic emissions data supplied by Siemens, including typical octave band spectra, are provided in Appendix A.

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