

1.6-82.5 Wind Turbine

Introduction

GE continues to advance its 1.5 MW wind turbine series product line with the introduction of GE's 1.6-82.5 wind turbine.

GE's 1.6-82.5 wind turbine provides additional annual energy production relative to the 1.5-82.5 wind turbine. Coupled with industry-leading low cost of electricity, this additional output equates to higher customer value.

Focusing on performance, reliability, efficiency, and multi-generational product evolution, GE's 1.6-82.5 wind turbine continues to deliver wind product leadership.

Applicable Platforms

GE's 1.6-82.5 wind turbine is available in both 50 and 60 Hz for use in IEC Class II environments.

Technical Description

GE's 1.6-82.5 wind turbine has a rotor diameter of 82.5 meters. This wind turbine also incorporates Advanced Loads Control which reduces the loads on the blades and other mechanical components to allow increased power production while maintaining a 20-year design life.

Enhancements to GE's 1.6-82.5 wind turbine include: strengthened generator frames, an improved gearbox design and an upgraded pitch system.

GE's 1.6-82.5 wind turbine utilizes GE Energy's proven Mark* V1e controller and advanced diagnostic capability to increase troubleshooting efficiency.

Features and Benefits

- A 15% increase in swept area relative to the 1.5-77 allows wind farms to be located in areas of lower average annual wind speeds, providing a strong return on investment.
- Based upon GE's 1.5 MW series turbine, the 1.6-82.5 turbine offers the same industry workhorse reliability with increased output.
- A sophisticated set of grid friendly features enable operators to meet stringent grid requirements.

Product Specifications

GE's 1.6-82.5 with Advanced Loads Control offers the following technical specifications:

- 50/60 Hz
- 80 and 100 meter tower configurations
- Cold weather extreme configuration option
- IEC Class II



Powering the world...responsibly.

For more information, please visit www.ge-energy.com/wind

* Trademark of General Electric Company.
Copyright © 2011 General Electric Company. All rights reserved.

GEA181128 (05/2011)