

2MW wind turbine generator speed

What is a 2 MW turbine?

With more than 55 GW of the 2 MW turbines installed since 2000, the 2 MW platform has become one of the most popular platforms in our portfolio, making it an obvious choice for customers looking to get the most out of their investment. The V90-2.0 MW(TM) is suited for high wind sites with rotor size constraints.

What is a 2 MW onshore turbine?

The 2 MW onshore platform drivetrain and electrical system architecture provide improved performance along with greater wind turbine energy production. Other critical components have been scaled from existing platforms to meet the specific technical requirements of this evolutionary turbine.

How does a 2 MW generator work?

To keep the blades pointed into the wind, the 2 MW-116 uses a passive yaw control system, and the 2 MW-127 uses an active yaw control system. GE's 2 MW Platform operates at a variable speed and uses a doubly fed asynchronous generator with a partial power converter system.

How reliable is a 2 MW turbine?

The performance and reliability of the 2 MW platform has been proven with more than 55 GW installed worldwide since 2000. V90-2.0 MW(TM) turbines build on proven technology over several generations ensuring great reliability, serviceability and availability. Configuration 80m hub height and wind class IEC IIIA. Depending on site-specific conditions

How many rotors does a 2 MW turbine have?

The evolution of GE's 2 MW Platform began with the introduction of a 1.5 MW turbine (the 1.5i) with a 65-meter rotor in 1996. That product evolved to a 70.5-meter rotor turbine, called the 1.5s. A 77-meter rotor machine called the 1.5sle was introduced later in 2004.

Is GE Vernova a reliable 2 MW wind turbine?

GE Vernova's reliable 2 MW platform of onshore wind turbines has over 20 GW installed and in operation today, featuring a best-in-class capacity factor and a significant improvement in Annual Energy Production (AEP) within the 2 MW wind turbine range.

2MW series wind turbines are double-fed, variable pitch windmills. It can be produced with different rotor diameters. This allows for wind power generation in wind classes from I to IV. ... Rated power[kw] 2000 : Cut-in wind speed[m/s] 3 ...

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