German engineered wind turbines
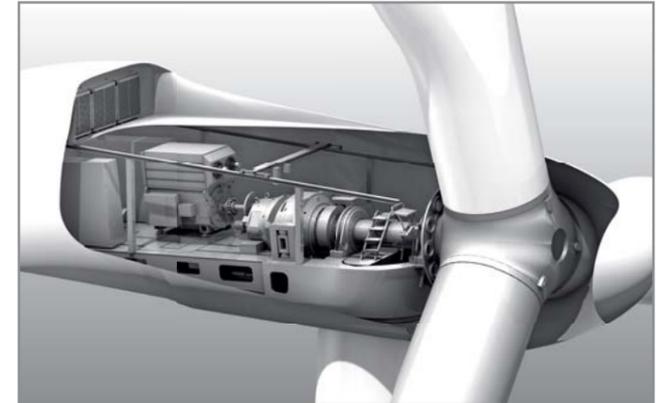
PowerWind

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Our Company

PowerWind Ltd. has been established in 2007 with objective of addressing the needs of the growing wind energy market in India and overseas by the way of supplying cost competitive wind energy equipment. POWERWIND LTD has a wide range of Wind Electric Generator(WEG) ranging from 500KW to 2.5MW.

The company plans to progressively increase its assembly capacity starting with 100 machines initially to almost doubling the output in 3 years time.

PowerWind Ltd is a Indian OEM of onshore wind turbines and service provider, also focusing on Community-scale wind projects. These projects ranging from single turbines to wind farms with a capacity of 30 MW are mostly locally owned. The energy is often consumed in the immediate vicinity of the turbines. Typical Community-scale customers include medium-sized industrial businesses, factories and farmers, regional project developers and power providers, privately owned wind farms, schools and universities as well as municipalities and leisure facilities.

Our successes

PowerWind Ltd has installed more than 70 wind turbines worldwide which impress with superior yields and reliability. In total, PowerWind Ltd has sold more than 160 turbines. From the ultra-modern manufacturing facility in India, turbines have already been supplied to Germany, Italy, Great Britain, Poland, Romania, Bulgaria, Azerbaijan and the USA. Following a development phase of only 12 months, the first prototype of the sub-MW platform, a PowerWind 56, was installed in July 2007. Serial production started in January 2008. In February 2012, the first PowerWind 500, especially developed for the British market, was installed. With the PowerWind 60 the company is preparing the launch of a third product variant. In 2010, the first prototype of the PowerWind 90 was sold and commissioned. Since then, the 2.5-MW platform was extended with the PowerWind 100 which is optimized for locations with moderate wind speeds.

PowerWind 56/60/500

PowerWind 90/100

The PowerWind 56/60 is a state-of-the-art wind turbine, certified under IEC wind class IIA/IIIA and DIBt WZ III/II. It has a rated power of 900/850 kW and a rotor with a diameter of 56/60 m.

The compact design of the PowerWind 56/60 meets the specific requirements of the emerging wind markets. Low crane and transport requirements make logistics and installation much easier at locations with weak infrastructures. Thanks to its full scale converter, the turbine can be connected both to weak and very well-developed electrical grids. Three independent cooling circuits allow for operation at rated power even under unfavourable climate conditions. The extensive use of industrial standard components by European manufacturers guarantees for low operation and maintenance costs.

With a rated power of 500 kW and a rotor diameter of 56 m, the PowerWind 500 was developed especially for the British market.

The PowerWind 90/100 is a highly efficient 2.5-MW wind turbine. It has a 90/100 m rotor diameter. Certified under IEC wind class IIA/IIIA, it is ideal for use at locations with medium to high wind speeds.

The PowerWind 90/100 combines robust mechanical engineering with advanced power electronics. Its mechanical design is based on the proven concept of the modular drive train. The sophisticated gearbox protection concept shields the gearbox from high loads. Due to its electric drive train concept with a permanent magnet synchronous generator and a full scale converter, the PowerWind 90/100 can satisfy the most demanding electrical grid requirements and can be integrated into weaker grids. The modular transport and installation concept saves time and money.

The optimal combination between rotor, generator, converter, and the internally developed control system maximizes energy output.

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