

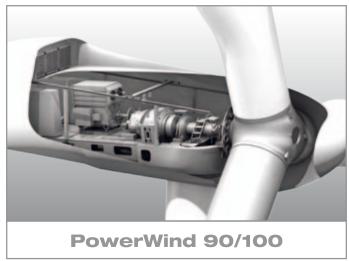
German engineered wind turbines

## **PowerWind**



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The PowerWind 56 is a state-of-the-art wind turbine, certified as an IEC wind class IIA. It has a rated power of 900 kW and a rotor with a diameter of 56 m.

The design of the PowerWind 56 meets the specific requirements of the emerging wind markets. Suitable logistics make the PowerWind 56 particularly beneficial for locations that are difficult to access or have weak infrastructures. The PowerWind 56 is equipped with a water-cooled asynchronous generator or with an optional air-cooled permanent magnet synchronous generator. Thanks to its full scale converter, the PowerWind 56 can be connected to weak electrical grids.

The advanced cooling system allows for smooth operation even under unfavourable climate conditions.

\* For rather moderate wind sites in accordance with class IIIA, the PowerWind 60 is recommended; rated power: 850 kW; available in selected markets from Q3 2011.

The PowerWind 90/100 is a highly efficient wind turbine with a rated power of 2500 kW and has a 90/100 m rotor diameter. Under IEC wind class IIA/IIIA certification it has an optimal application for sites 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. 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 optimal combination between rotor, generator, converter, and control system maximizes its energy output.





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