Practical experience gained from hundreds of turbines in the N80/2500 kW and N90/2300 kW turbine family installed worldwide contributed to the design of this 2.5 MW machine with its 90-metre rotor.

The guaranteed power curve, the independently measured noise properties, network compatibility comparable to that of the N90/2300 kW and the test findings obtained by independent experts on a Danish wind field confirm the high efficiency ratio of the turbine. The N90/2500 kW is the most efficient wind energy system in the Nordex product family.

The high-speed and low-speed versions of the turbine take optimal advantage of both strong and light winds.

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Technical Highlights

- optimised emergency power supply for pitch drive
- further developed battery-charging management, which supplies the battery sets with a temperature-based charging voltage and conducts an automatic voltage test of the batteries every two hours. Each set of batteries is equipped with a charger.
- automatic lubrication system for all three pitch systems
- breathable water protection

Low-wear rotor brake

- active hydraulic rotor brake permits idling when separated from the network, relieving the drive train

Maintenance-friendly machine housing

- optimised nacelle casing provides better thermal properties, safer working and makes service and transport easier

Powerful yawing

- further developed brake and drive system
- intelligent control concept ensures low-strain yawing under extreme operating conditions

Automatic lubrication

- automatic greasing of components of the drive train and azimuth and pitch system

Options

Our customers have several options to choose from. The N90/2500 is designed for locations with strong winds and locations with light winds in the HS (high-speed) and LS (low-speed) versions. We supply the turbine as a 50 or 60 Hz version,

depending on the country where the wind park is to be connected to the grid. The HS version of the N90/2500 kW can also be employed offshore.

Electrical features

The electrical features of the N90/2500 kW fulfill the E.ON grid-connection rules (Version 8/03) and further international codes will be available shortly. The turbine is certified in accordance with DIBt 2 and DIBt 3, as well as IEC 1b, IEC 2a and IEC 3a.

Rotorblades
In our state-of-the-art manufacturing facility in Rostock, built in 2001, we manufacture some of our rotor blade requirements in

12,000 square metres of factory space. The rotor blades NR45 (N90) are built using the vacuum injection method This method involves placing the glass fiber in a vacuum so that the structures can absorb the resin. As a result, consistently high product quality is ensured and on-site safety enhanced. In addition, Nordex is employing a new coating method which has proven to be highly weather-resistant in practice.

Operations management

The N90/2500 is controlled by Nordex Control 2 (NC2), a software/hardware system for managing the central wind power

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