Built on a strong power-generation heritage spanning more than a decade; the NTK 200/250/300 from Repowering Solutions, is a technological evolution, with an in-house engineering strategy, to enhance the performance of the well valued Nordtank 300kw. Higher efficiency, increased reliability, improved maintainability and seamless grid integration, make it a unique piece of precision and performance. In fact, the NTK 200/250/300 wind turbine, leads the industry by producing the highest annual energy

**Low Maintenance Cost**
- NTK offers low-cost maintenance

**Easy Operation**
- Cost effective planned maintenance
- 24/7 SCADA monitoring
- Remotely Controlled

**Turbine Open Days**
- NTK turbines being installed across Italy
- OpenDay events organized across Italy

**High performance and High return on investment**
- Excellent availability
- Minimum operating costs
- NTK is designed to top performance

**Robustness and reliability**
- +20 years of field experience
- Smooth drive train operation due to DTC (Direct Torque Control).
- Light and robust
- Advanced technology & state-of-the-art manufacturing
- Reliable even in the windiest areas
- Trouble free energy production
- 2-5 year warranty options

**Finance your Energy Project**

*Ask about our finance packages*
## SPECIFICATIONS

### POWER
- Grid power: 200 / 250 / 300kW
- Rotor diameter: 28 m
- Hub height: 31 m
- Cut-in wind speed: 4 m/s
- Rated wind speed: 13 m/s
- Cut-off wind speed: 25 m/s

### ROTOR
- Number of blades: 3
- Position: Upwind

### NACELLE
- Steel main structure
- Weight: 12,500 kg
- Active yaw: by 2 motorgears

### GENERATOR
- Asynchronous squirrel cage rotor, designed for VSD
- Voltage: 400, 690V
- Manufacturer: ABB

### CONVERTER
- Full Power Concept: 4Q-Operation, IGBT Power Rack Module
- Grid Voltage: 400, 480, 690V, 50 / 60Hz
- Control System: DTC - Direct Torque Control
- Manufacturer: ABB

### GEARBOX
- Stages: 2 parallel

### TOWER
- Height: 30m (1 piece)
- Design: 1 cylindrical section
- Diameter: 2,400 mm
- Weight: 14,000 Kg

## NTK Benefits
- Designed according to IEC
- LVRT Capability
- Active - Reactive power control
- Compliant Harmonic Filters
- Remote control
- Low noise emissions
Full Power Converter
The electrical system design of the 200/250/300kW wind turbine consists of an Asynchronous generator and full power conversion. In the outside cabin, the power module efficiently converts the energy from the generator into power that provides frequency and voltage control required by transmission system operators. The integration of the converter in outside cabin, rather than the nacelle, ensures that vibration loads do not affect the reliability of the power electronics. The converter cooling system has been designed to minimize moving parts for reliability and features passive coolers that use the same wind that powers the turbine.

24/7 Remote Monitoring and Troubleshooting
REPOWERING’s customer support and remote operations centers in Spain and Denmark provide continuous monitoring and diagnostics services 24 hours a day, 365 days a year. These centers offer capabilities developed using our in-depth product knowledge, service engineering expertise and years of successful fleet operation, helping us to respond quickly and accurately to your needs.

Extended Parts and Services Agreement
Adding coverage for manual resets, initial trouble shooting, competitive parts pricing and inventory management, and a limited availability guarantee together with performance analysis reports, ensures the highest standards of operation for the project while offering customers competitive solutions to unplanned service events.

Full Service Agreement
Maximize turbine operating performance and life by adding predictive Condition Monitoring services, unplanned maintenance with advanced services and uptower repairs, as well as options for turbine performance and life extension enhancement. Under this comprehensive package REPOWERING provides the customer with worry-free operation and maintenance.
ITALY

FINTEC Energia S.p.A.
Via Vasto, 26
83100 - Avellino

Tel: 0039 0825 679874
Fax: 0039 0825 679877
Email: info@gruppofintec.it
Web: www.gruppofintec.it

ENGLAND

Spectrum Energy Systems Limited
Unit 7, Highgrounds Industrial Estate,
Rhodesia, Worksop.
S80 3AF United Kingdom

Tel: +44 0845-4747604
Mob: +44 07969786337
Email: paul@spectrumenergysystems.co.uk
Web: www.spectrumenergysystems.co.uk

WORLDWIDE

Repowering Solutions

Ronda de Atocha, 37
28012 Madrid - SPAIN

T +34 902 103 771

sales@repoweringsolutions.com
www.repoweringsolutions.com

Powered by ABB