



for continuous availability



Thrive

for continuous availability

A partnership doesn't stop when a product is developed and validated. With Thrive, ZF Wind Power also partners with its customers after installation. This proactive service concept, based on gearbox domain knowledge and data analytics, answers the diversity and dynamics of the wind market. It helps wind park operators, OEMs and other partners getting the most out of wind power. Thanks to pioneering digital solutions, this service concept stands for optimizing operations in a proactive way and not just maintaining turbines in a reactive manner. This service concept thrives for continuous availability and peace of mind for partners.

Visit www.zfthrive.com for continuous availability.

Wind Power Service Agreements



Gearbox pool

- Pool gearboxes available within 5 days
- Easy to order at www.zfthrive.com



Digitalization

- Services Powered by Analytics
 - Spare Parts Optimization
 - Fast return to Operations
 - Intelligent Powertrain



Field Repair

- Replacement of kits and spares at regional locations
- Uptower / On site field technicians at regions



Spare Parts Management

- Sets and spares at regional locations



Partner Training

- Train customers & local partners for uptower interventions
- Increase field technicians in all the regions



Workshop

- Refurbishment of gearboxes at ZF key production locations
- 90 days on high runner gearboxes
- 120 days on non high runner gearboxes



www.zfthrive.com

Digitalization to reduce the cost of energy

State-of-the-art analytics combine data from gearbox manufacturing and life cycle monitoring with advanced reliability models to reduce the levelized cost of energy. Through its advanced services ZF is directly supporting partners to reduce the operational costs and increase the energy output of wind turbines. With processes in place to capture, store and process data, we enable the lifetime extension potential of the gearbox.

The digitalization portfolio is also benefitting customers with digital capabilities such as the intelligent powertrain.

Services Powered by Analytics

Spare Parts Optimization Service (SPOS)

- Provides accurate analysis of consumed and remaining lifetime of the gearbox
- Insights in the lifetime potential
- Spare parts recommendations
- Interactive reports on a personal dashboard

Advantages:

- Reduced downtime
- Reduced costs
- Improved convenience
- Improved transparency

Fast Return to Operations (FRT0)

- Full-service package providing wind farm owners and operators with a peace of mind
- Seamless, transparent and proactive value chain that prevents unnecessary lost revenues and high repair costs
- Automatically links failures to service solutions and ensures the least possible downtime

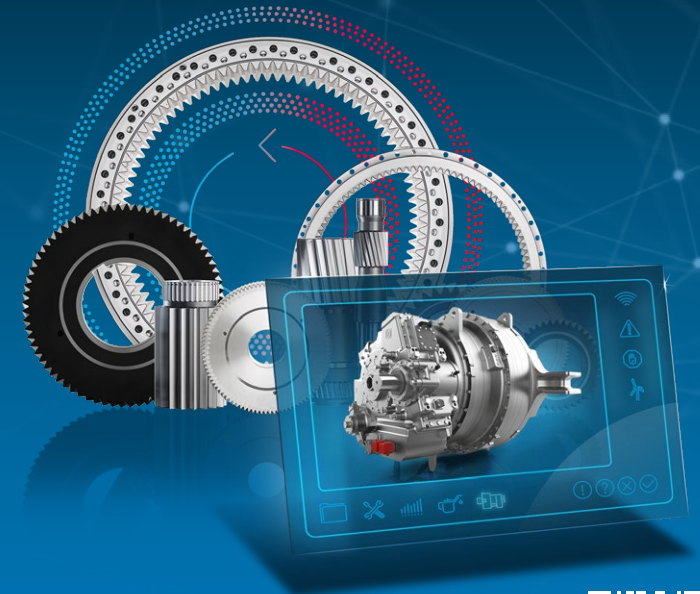
Realized improvements on a wind park of
100 gearboxes over 12 months

↓ **50%**
Alert processing
effort

↓ **60%**
Unplanned field
inspections

↓ **85%**
Lead time to repair

↑ **0.4%**
AEP at park level





ZF Wind Power
www.zf.com/windpower