

The best service for the best gearboxes

From 15 to 18 September, Winergy will present new options for the maintenance and service of wind turbine gearboxes at the Husum Wind fair. The result: minimizing the risk for the operator and increasing the availability of wind turbines.

When, up to now, the bearing of the planet carrier in a gearbox was to be replaced or serviced it was always necessary to remove the gearbox from the turbine – inclusive of expensive crane work and transport to the manufacturer's factory. Winergy now has developed a procedure in which the bearing of the planet carrier can be replaced without having to remove the gearbox from the nacelle. With the aid of specifically designed fixtures it is possible to move the gearbox in the nacelle and thus, the bearing can be removed. This procedure was successfully tested on the first gearbox on a customer's turbine and others are to follow. "It does not only cut down the expenses for the operator of the wind turbine and shorten the downtime of the plant; it also contributes to further reducing the cost of generating energy. This is a requirement central to ensuring the economic sustainability of the wind energy of tomorrow", says Cüneyt Uzkan, head of the Winergy Service. At the Husum Wind, Winergy will present the new feature in a 3D animation.

On a gearbox exhibited on the Winergy stand it is also shown how to replace the intermediate shaft of the cylindrical gear stage on a turbine. The gearbox is opened with a fixture and the service technician can work in the room inside without problem and remove the shaft. By it, the replacement procedure on the turbine is enormously shortened, this resulting in shorter downtime of the plant. The gearbox weighs almost 20 tons and thus is one of the biggest and heaviest exhibits at the fair.

These are only two of several maintenance and service operations the Winergy service experts can carry out in the turbine nacelle. "To our service the same high standard of quality applies as the one that made Winergy the unchallenged number one among the gear unit manufacturers. We are the only company providing service and spare parts in original



equipment manufacturer quality for both our own gearboxes and those of other manufacturers”, Uzkan continues.

Another offer by which Winergy significantly increases the availability of wind turbines is the gearbox exchange pool. In the case of a gearbox failure there are replacement gearboxes available for all common gearbox types. So it is possible to replace the defective gearbox in no time and minimize the downtime of the turbine.

About Winergy

Winergy with its headquarters in Voerde, Germany, with more than 100,000 MW of gearboxes supplied worldwide, is the leading manufacturer of components for wind turbines. With more than 30 years of experience, Winergy offers gearboxes, HybridDrives, couplings, and services to wind turbine manufacturers and wind park operators. The product portfolio covers a power range between 750 kW and 8 MW as well as a special service portfolio going with it. The manufacturing and service locations are in Europe, China, India, and the USA and are continuously expanded worldwide by new service partners.

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