

Press report

Voerde, September 2016

Winergy delivers world's largest windpower gear unit to WindEnergy in Hamburg

The 3.66-meter tall, 3.35-meter wide, 3.5 meter long, 46.7 tonne giant, at 10,000 kilonewton-metres the world's largest and highest-torque windpower gear unit, rolled through the large workshop door on a specially adapted low-loader right in time for the start of set-up work for the second WindEnergy show: the Winergy 8-megawatt offshore gear unit redefines the dimensions of drive technology for wind energy.

One week before the start of the fair on 27th September Winergy delivered to the Hamburg fair halls the largest gear unit ever built for a wind turbine. It will be the highlight of the gearmaker's fair stand and was specially designed to give visitors to the world-leading trade fair a view of the gear unit's interior and journal bearings. In the original with all components the gear unit weighs an astonishing 86 tonnes.

"Engineered to last" is not only the principle underlying Winergy's new offshore flagship project but also the motto under which the world's leading gearmaker, with over 125,000 megawatts of delivered gearpower, presents its portfolio for the windpower industry: gear unit concepts for fast and medium-fast drive solutions, couplings in the power range from 50 kilowatt up to 6 megawatt and a customer service portfolio that guarantees the maximum availability of products.

"Reliability and quality are indispensable in the offshore sector in particular. Our 8 megawatt gear unit was developed to meet these requirements and helps tremendously to reduce the levelized cost of energy (LCOE) for the wind turbine. With it we are once more demonstrating our technological expertise and innovative power and are pleased to present this development to the wider public in Hamburg," says Winergy CEO Aarnout Kant.

Winergy developed the gear unit for its AD 8-180 turbine, with its 180-meter diameter rotor the world's biggest wind turbine, jointly with the offshore joint venture Adwen. The two-stage

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planetary gear is connected via a flange connection direct to a medium-fast generator. By going for a medium-fast gear unit concept and using proven technologies by both companies Adwen and Winergy succeeded in maximizing the efficiency of the drive train while reducing the cost of the drive components. In tests the gear unit achieves an efficiency of well above 98 percent. And by reducing the components used in it its reliability is also increased.

About Winergy

Winergy, based at Voerde, Germany, is, with over 125,000 MW of delivered gear power, the world's leading manufacturer of components for windpower systems. With more than 35 years of experience, Winergy offers windpower system manufacturers and windfarm operators gear units, HybridDrives, couplings and customer services. Its product portfolio comprises a power range of between 750 kW and 10 MW as well as a service portfolio to match. Its production and service locations are based in Europe, China, India and the USA and are being continuously expanded to include service partners.

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