

News release from Vestas Wind Systems A/S

28 January 2014

World's most powerful wind turbine now operational

Vestas' first V164-8.0 MW prototype wind turbine has successfully produced its first kWh of electricity, making it the world's most powerful turbine in operation.

"We have now completed the production, testing, and installation of the V164-8.0 MW as planned, thanks to the team's intense effort during a time when Vestas has reduced its investments and lowered fixed costs. We now look forward to evaluating the turbine's performance on site," says Vestas' Chief Technology Officer Anders Vedel.

The turbine, installed at the Danish National Test Centre for Large Wind Turbines in Østerild, will be closely monitored in the coming months to further validate reliability and energy output. The turbine's installation is a key milestone towards ensuring maximum business case certainty for customers investing in offshore wind. The V164-8.0 MW will be the flagship product for the offshore joint venture between Vestas and Mitsubishi Heavy Industries.

"The V164-8.0 MW delivers industry-leading power output, based on Vestas' proven technology solutions. Combined with the experience and capabilities of both Vestas and Mitsubishi Heavy Industries, this puts us in a strong position in the growing offshore market," says Jens Tommerup, President of Vestas Offshore.

The V164-8.0 MW turbine is the world's most powerful, with one unit capable of supplying electricity for 7,500 average European households. With a 140-metre tower, the turbine at Østerild has a tip height of 220 meters. The swept area of more than 21,000 m², equal to three football pitches, increases the amount of energy captured, while reducing operational and maintenance costs by enabling customers to run fewer, larger turbines, with fewer service visits.

Given the necessary pipeline of orders, serial production of the V164-8.0 MW turbine can begin in 2015.

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About Vestas

Every single day, Vestas wind turbines deliver clean energy that supports the global fight against climate change. Wind power from Vestas' over 50,000 wind turbines currently reduces carbon emissions by over 60 million tons of CO₂ every year, while at the same time building energy security and independence.

Today, Vestas has delivered wind energy in 73 countries, providing jobs for 16,000 passionate people at our service and project sites, research facilities, factories and offices all over the world. With 62 per cent more megawatts installed than our closest competitor and more than 58 GW of cumulative installed capacity worldwide, Vestas is the world leader in wind energy.

We invite you to learn more about Vestas by visiting our website at www.vestas.com and following us on our social media channels:

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