V164-8.0 MW breaks world record for wind energy production

MHI Vestas Offshore Wind's V164-8.0 MW prototype set a new benchmark for power production recently when the turbine produced 192,000 kWh in a 24 hour period, enough to power approximately 13,500 Danish households, demonstrating the full capability of the world's most powerful wind turbine.

The V164-8.0 MW prototype turbine has broken the record for power production by a wind turbine in a 24 hour period from 6-7 October 2014 when the turbine produced 192,000 kW/h, during steady wind conditions at the test site in Østerild, northern Denmark. The power produced by the turbine in one day was enough to supply the energy needs of approximately 13,500 Danish households, roughly equivalent to Thisted; a city close to the test centre.

The power production data was measured by Denmark's Technical University (DTU) who own the Østerild site.

MHI Vestas Offshore Wind's CEO Jens Tommerup said the record demonstrates the full capacity of the V164-8.0 MW.

"This power production record further underlines both the quality of the technology as well as the skills of the team involved who have been working hard to ensure the turbine is performing according to our testing schedule," said Jens and continues:

"The turbine was installed and commissioned in January 2014 and has been operating with over 90% availability. Our main focus now is continuing to document the performance of the turbine to measure the power curve and the power quality in order to receive type certification."

For more information or to arrange an interview with Jens Tommerup from 1200-1300 CET, please contact:

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About MHI Vestas Offshore Wind
MHI Vestas Offshore Wind is a joint venture between Vestas Wind Systems A/S 50% and Mitsubishi Heavy Industries (MHI) 50%. The company's sole focus is to design, manufacture, install and service wind turbines for the offshore wind industry. The company aims to drive down the cost of energy from offshore wind parks through reducing the costs and increasing efficiency. The company is founded on collaboration, and creating powerful partnerships with key stakeholders will be the cornerstone of its business model.

About the V164-8.0 MW

- 8MW rated power, with an optimal rotor to generator ratio
- 80m blades, the equivalent of nine double decker London buses
- Swept area of 21.124m2 , larger than the London Eye
- The nacelle is 24m long, 12m wide and 7.5m high, weighing approximately 390 tonnes
- Approximate hub height of 105m (Østerild prototype 140m)
- Approximate tip height of 187m (Østerild prototype 220m)
- Reduces operational and maintenance costs by enabling customers to run fewer, larger turbines.
- When installed at sea, the V164-8.0 MW will produce power for approximately 7,500 European households.