News release from
Vestas Wind Systems A/S

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Vestas challenges scaling rules with multi-rotor concept demonstration turbine

In cooperation with the Technical University of Denmark, Vestas is installing a concept demonstrator to test the technical feasibility to operate and control a multi-rotor turbine.

Continuing to reduce the levelised cost of energy (LCOE) over the long-term will require new solutions and a new way of thinking. With this concept demonstrator, Vestas challenges the core scaling rules that turbines have to grow in size to increase their energy output as well as transport and installation challenges in some markets. Many new load and control features will need to be developed, tested, and proven to assess the technical and eventually the commercial feasibility of the concept, and first after successful demonstration will Vestas know more about the possible use of the technologies.

"Installing a concept turbine shows that innovation sometimes entails entirely new thinking and new approaches. This process of continuous innovation and exploration is extremely important. It provides us with essential knowledge that can help us bring down our products' cost of energy and integrate key technologies to solve our customers' challenges. Ultimately, the goal is to assess if we can build an even more cost-efficient turbine by challenging the scaling rules", says Jorge Magalhaes, Senior Vice President, Vestas Innovation & Concepts.

Anders Vedel, Executive Vice President, Vestas Technology & Service Solutions adds that: *"As a global company, it is essential that Vestas' product portfolio remains versatile enough to deliver high performance in a wide array of different market conditions – and also innovative enough to succeed in markets with different energy systems and requirements. And we see a great opportunity – and need – to continuously explore alternative concepts to cover the world's rapidly growing energy demand in a sustainable way, while simultaneously continue lowering the cost of energy our products deliver".*

With the Technical University of Denmark as a research partner, the multi-rotor concept demonstrator is being erected at the Risø test site near Roskilde, Denmark, where it will be studied closely in the coming years in order to test specific functionalities.

For photos and additional information about the project, please visit: www.vestas.com/multirotor. An illustration is provided below.

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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' more than 56,800 wind turbines currently reduces carbon emissions by over 78 million tons of carbon dioxide every year, while at the same time building energy security and independence. Vestas has delivered wind energy in 75 countries, providing jobs for around 20,500 passionate people at our service and project sites, research facilities, factories and offices all over the world. With 52 percent more megawatts installed than anyone else in the industry

and close to 74 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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(Illustration of the multi-rotor concept demonstration turbine)

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