

# Facts: Vestas Multi Rotor concept demonstrator at Risø

The multi-rotor concept demonstrator uses four refurbished V29-225 kW nacelles (produced by Vestas from 1990 to 1997) mounted on a support structure. Full scale converters and control features have been added to enable required testing. With a tip height of 74 meters, it is tailored to the site-specific requirements associated with Risø, where there is a tip height restriction of 75 meters.

The purpose of the concept demonstrator is to explore a different approach to lowering cost of energy by challenging the scaling rules. Main technical areas for investigation are: structural dynamics, aerodynamics and loads.

A large number of sensors are installed on the concept demonstrator to aid measurements and testing. In addition, a LIDAR system is installed at the top of the support structure for measuring the wind field in front of the rotors.

