



## Control of large and flexible wind turbines

Juan Li  
University of Warwick

Increasing the size of wind turbine is one of the most effective ways to reduce the wind power cost. In the picture is a 7MW offshore wind turbine, the common commercially available wind turbine. Its blade has a length of 80 meters which is more than 9 London buses linked together. The industry aims to triple its capacity, requiring the blade length over 120 meters. However, large offshore machines are encountering vibrations due to wind and wave loading, which limit their further potential increase. We will use smart rotor concepts to solve these challenges.

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