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Research based anti-typhoon strategies for off-shore wind turbines

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As energy production by Off-shore wind turbines is emerging, researches have been made to counteract typhoon hazards, damages and losses. Due to the land unavailability and lack of resources on land, offshore wind farms have been built in bulks during recent decades. Offshore wind technology proved to be a great reservoir for energy production during recent decades [1]–[4]. But due to natural disasters such as typhoons, the productivity of wind energy by these turbines is deteriorating which raise the demand for ant-typhoon technology, design and methods which are safe, reliable and economical. This article aims to determine suitable anti-typhoon strategies for the betterment of the current typhoon situation of offshore wind turbines. Devising anti typhoon methods is one of the phases of actually implementing it. It requires the knowledge, skill, resources, cost management, budget and maintenance costs and many other aspects. These strategies require proper planning to achieve the desired result. Researches from all over the world have been working to formulate effective and efficient methods to improve productivity of wind turbines and many countries including USA, UK japan and China are implementing them. Measures such as strengthening of basic tower and blade, strengthening of yaw brake and main shaft brake torque, slip ring technology are already in action by using technologies. But there is always a room for betterment.

Biography

R. F. Swati is Assistant Professor at Institute of Space Technology, Pakistan. Did his PhD research from Northwestern Polytechnical University, Xi'an, China. His research field is extended FEM modelling using multiscale method in aerospace structural dynamics research lab, school of astronautics. His research interests include landing gear design, impact analysis, wind turbine systems, FEM, BEM and modelling of Composites and their analysis for aerospace applications.