Flat-rotating wind turbine generator

Constant improvements in the design of wind blades has produced new wind turbine designs which are more compact, quieter and are capable of generating more power from less wind.

The proposed strategy has the potential to improve the flexibility of the power system with a significant share of wind power plants (WPPs). Implementing this strategy requires only ...

Below rated wind speed, the generator torque control is active while the blade pitch is typically held at the constant angle that captures the most power, fairly flat to the wind.

The Swedish company has been developing floating wind turbines intended for deepwater deployment for some time, focusing on turbines that can be deployed wherever needed, ...

In 2012, two wind turbine blade innovations made wind power a higher performing, more cost-effective, and reliable source of electricity: a blade that can twist while it bends and blade airfoils ...

It is authored by researchers who have been working on the Big Adaptive Rotor (BAR) and related initiatives at the National Renewable Energy Laboratory and Sandia National Laboratories. The U.S. ...

Swedish firm SeaTwirl has unveiled plans for a two-bladed vertical-axis floating offshore wind turbine on a rotating spar foundation with "flat-pack assembly". An artist"s impression of what ...

This paper presents the extended study on the performance analysis of a proposed airborne rotor type wind turbine design in flat terrain wind conditions. The innovative design proposal ...

In this paper, enhancements in the design of a vertical axis wind turbine have been suggested, which entail employing self-oriented flat blades for improving the turbine"s efficiency.

Most wind turbines generating electricity today either commercially or domestically are typically three-bladed,

horizontal axis machines facing into the oncoming wind, so it is these types of ...

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