

Results of an in-depth study indicated that a heavily eroded wind turbine blade can reduce annual energy production by up to 5% for a utility scale wind turbine. Learn more at the Leading Edge ...

Accurate documentation of the wind patterns around the United States helps researchers determine the best sites for wind power plants. Wind maps can also help determine the wind ...

The accurate evaluation and fair comparison of wind farms power generation performance is of great significance to the technical transformation and operation and maintenance ...

The model incorporates meteorological features (wind speed, wind direction, and temperature) and operational factors (blade pitch and yaw error) to assess performance efficiency ...

To achieve more precise and systematic diagnostic work on the power generation performance of wind turbines, this paper focuses on three factors: air density, turbulence intensity, and yaw adaptability.

Before installing a wind turbine, the measurement and analysis of wind resources must be carried out to assess the potential for wind energy generation and to select the appropriate...

As a wind energy analyst, this article is designed to guide you through the process of evaluating wind potential, leveraging modern business intelligence and data analytics methods to maximize efficiency ...

Power generation can be displayed as you require, at portfolio, wind farm and turbine level. In GreenStream(TM), deep dive as required to component-level monitoring and power curve analysis. A ...

The objective of this study is to perform an analysis to determine the most suitable type of wind turbine that can be installed at a specific location for electricity generation, using annual ...

During the past decade, wind power generation has been rapidly developed. As a key component of feasibility analysis, the cost modelling and economic analysis directly affect the ...

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