Operation status of wind farm generators

The wind farm will comprise 100 Siemens Gamesa 14MW turbines, an offshore converter station and hundreds of kilometres of both inter-array and export cables, as well as onshore electrical ...

In this paper, a model based on the least squares support vector machine (LSSVM), whose parameters are optimized by the Big Bang-Big Crunch algorithm, is constructed to improve ...

This paper studies a monitoring system and monitoring method for the operation status of wind turbines. The system includes: the end side Mechanical floor is us.

The Global Wind Power Tracker (GWPT) is a worldwide dataset of utility-scale, on and offshore wind facilities. It includes wind farm phases with capacities of 10 megawatts (MW) or more.

The U.S. Wind Turbine Database (USWTDB) provides the locations of land-based and offshore wind turbines in the United States, corresponding wind project information, and turbine technical ...

Our data is checked and revised over a rolling period of six months. We offer one-, two- or three-year update packages on an annual, bi-annual, quarterly or monthly basis. The Wind Power can also ...

Detailed fleet-level, turbine-level, and system/component-level reliability analysis assists owners/operators with critical wind farm and turbine model identification, supplier selection, inventory ...

Learn how to track wind turbine locations and maintenance status on an interactive map. Visualize your entire wind farm with color-coded status and maintenance records.

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 ...

Data analytics identified that power converter and pitch system in wind farm emerged as leading contributors to failure rate and downtime across the years 2020, 2021, and 2022.

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