

Kongres Container

Wind power base station power supply



Overview

Where is wind power generation data stored?

Wind power generation data are in the wind_farms folder, which includes six Microsoft Excel files. The real-time power generation and weather conditions are recorded in these files. The basic information about each wind farm is listed in Table 1.

What are the different types of wind data?

Generally, there are two types of original datasets: simulated datasets and on-site collected datasets. The NREL Wind Integration Dataset is a widely used dataset 13, and it provides simulated wind data from more than 126,000 land-based and offshore wind power production sites with a 2-km grid over the United States at a 5-min resolution.

What is the NREL wind integration dataset?

The NREL Wind Integration Dataset is a widely used dataset 13, and it provides simulated wind data from more than 126,000 land-based and offshore wind power production sites with a 2-km grid over the United States at a 5-min resolution. Datasets derived by analyzing satellite imagery are also common and effective.

How many MW does a wind farm produce?

The statistics of each wind farm can be seen in Table 3. The nominal wind generation capacity varied from 36 MW to 200 MW, and the average real output ranged from 6.7 MW to 72.7 MW. The wind speed at the height of the wheel hub varied from 0 m/s to 36.9 m/s, and the yearly average was approximately 6.0 m/s.

How many MW does a wind turbine produce a year?

The nominal wind generation capacity varied from 36 MW to 200 MW, and the average real output ranged from 6.7 MW to 72.7 MW. The wind speed at the

height of the wheel hub varied from 0 m/s to 36.9 m/s, and the yearly average was approximately 6.0 m/s. The air temperature varied from $-24.5\text{ }^{\circ}\text{C}$ to $37.6\text{ }^{\circ}\text{C}$, and the yearly average was $8.5\text{ }^{\circ}\text{C}$.

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