

Wind farm operation and photovoltaic power generation

What is the capacity of a wind farm and a photovoltaic power plant?

The capacity of the wind farm is 210 MW, and the capacity of the photovoltaic power plant is 50 MW. Considering the seasonal characteristics of output, the annual data will be grouped by month and the output of the wind farm and photovoltaic will be equivalent to one unit respectively.

4.1. Correlation analysis of sample data

Does China have a potential for wind and solar PV power generation?

Then, the technical, policy and economic (i.e., theoretical power generation) constraints for wind and PV energy development were comprehensively considered to evaluate the wind and solar PV power generation potential of China in 2020.

Do wind power and photovoltaic output have a time correlation?

Firstly, based on a one-dimensional Markov chain model and a static mixed Copula function, wind power and photovoltaic output models were established, effectively characterizing the time correlation of each series of wind and solar output.

Is there a dynamic spatio-temporal correlation between wind farms and photovoltaic power plants?

There exists a dynamic spatio-temporal correlation between the outputs of neighbouring wind farms and photovoltaic power plants due to the same geographical location and environmental factors.

What is the parameter estimation method for wind farms & photovoltaic power plants?

The parameter estimation method is generally used to obtain the probability distribution of the output of wind farms and photovoltaic power plants. However, the results of the parameter estimation method are not always satisfactory because there is often a significant gap between the selected parameter model and the actual physical model.

How do you pre-process a wind & photovoltaic model?

Sample data pre-processing Select the output data from 7 a.m. to 7 p.m. every day in July as the sample data for model input data pre-processing, with an interval of 15 min. Convert the measured wind and photovoltaic output data into output rates for normalization.

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