

System composition of wind power generation system





Overview

What are the components of wind power generation system?

In terms of configuration, wind power generation system normally consists of wind turbine, generator, and grid interface converters where the generator is one of the core components. There are the following wind power generation technologies such as synchronous generator, induction generator, and doubly fed induction generator.

What is wind power generation?

Wind power generation is power generation that converts wind energy into electric energy. The wind generating set absorbs wind energy with a specially designed blade and converts wind energy to mechanical energy, which further drives the generator rotating and realizes conversion of wind energy to electric energy.

What is a wind power system?

The wind power system comprises one or more wind turbine units operating electrically in parallel. Each turbine is made of the following basic components:.

What are the components of a wind turbine?

It also must have one or more of the following additional components: Anemometers, which measure the wind speed and transmit the data to the controller. Numerous sensors to monitor and regulate various mechanical and electrical parameters. A 1-MW turbine may have several hundred sensors.



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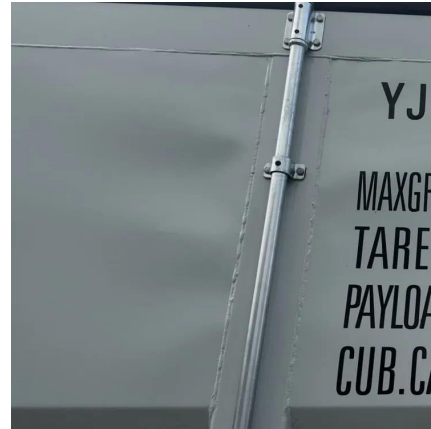
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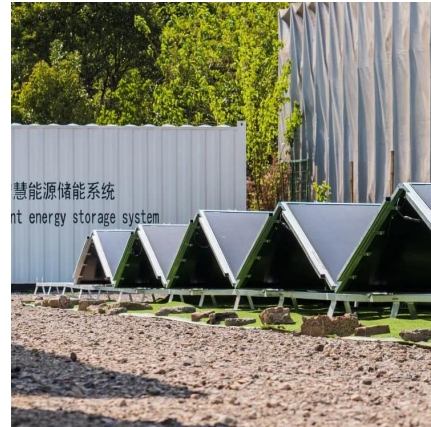
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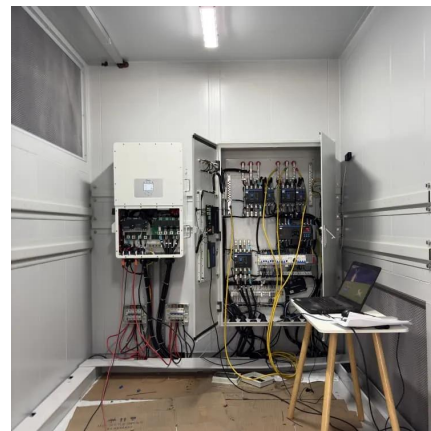


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