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# Factory wind power generation system





## Overview

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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 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 are the different types of wind power generating systems?

The commonly used wind power generation systems include the direct-driven wind power generating set and the double-fed wind power generating set; the direct-driven wind power generating set is connected to the grid through a full power converter, while the double-fed wind power generating set is connected to the grid through a double-fed converter.

How does wind power generation work?

The installation produces electricity by collecting and transforming wind power into rotational mechanical energy to drive a generating unit. Wind power generation technology is now relatively mature, with annual generation amounting to 640 TWh, accounting for less than 3% of the world's total energy consumption.



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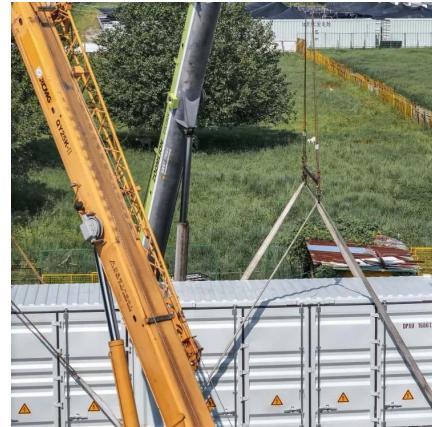
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