

Wind power generation systems and equipment





Overview

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 a wind generation system?

In wind generation systems, the wind turbine, the electrical generator and the grid-interfaced converters are three key components that have been developed in the past 30 years 32, 33. The turbine converts wind energy into mechanical energy.

What technology is used to make a wind turbine?

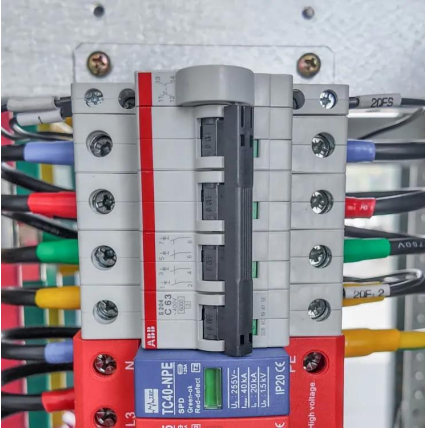
Our 2.5MW wind turbine is manufactured using Siemens technology for certified and optimized wind power generation. The design of the windmill is based on the G2 platform and has a reliable energy output and long working life cycle.

What are the different types of wind turbine generation systems?

Two typical configurations of power electronic converter-based wind turbine generation systems have been widely adopted in modern wind power applications: type 3 wind generation systems with doubly fed induction generators (DFIGs) (Fig. 2a); and type 4 wind generation systems with permanent magnet synchronous generators (PMSGs) (Fig. 2b).



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Wind Power Generation Equipment , Electricity Generation , Shanghai

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