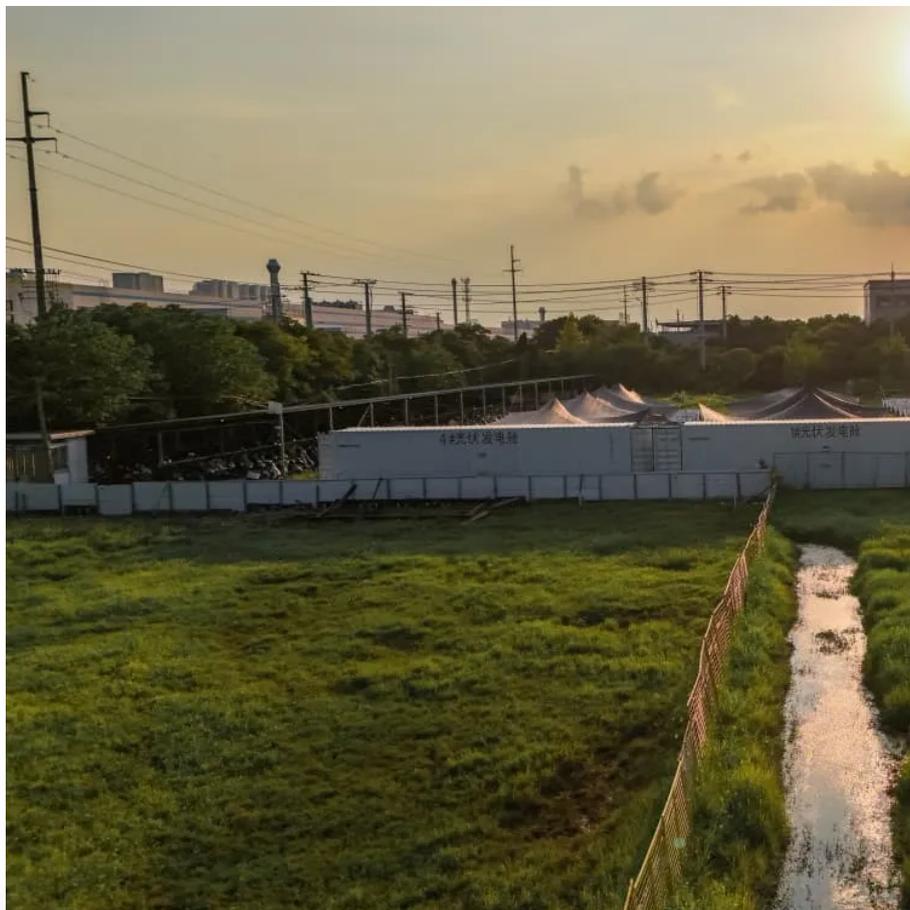


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New wind power generation system



Overview

Chinese scientists expect to soon make a breakthrough in airborne wind turbine technology, with the world's first megawatt-level system set to take flight, according to the project team. 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.

How has wind power technology changed the world?

This surge in new installations spanned across all continents. As the wind power industry continues to expand, wind power technology is making significant strides. With the increase share of wind power in global energy systems, there are increasingly higher demands for cost reductions and improved grid connectivity.

What is a floating wind power generation system?

The floating wind power generation system resembles an airship and is being held up as a possible power solution for remote locations and disaster zones where conventional power supplies cannot be used or are inadequate.

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).

How can a wind generation system be regulated?

One approach involves operating the wind generation system with power

reserve, achieved by shifting the MPPT reference. In this approach, the pitch angle can be regulated based on frequency deviations, enabling power reserves to participate in primary frequency control 156.

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.

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