

Wind farm centralized system





Overview

How does a centralized wind farm control system work?

The successful coordination between wind turbines and system operators is accomplished by using a centralized wind farm control system. The wind farm control system acts as a central part of the system and distributes active power references among wind turbines.

What is a wind farm control system?

The wind farm control system fits most grid codes, and typically consists of a wind farm controller, cluster controller, grid station, weather station, fully tested advanced automation software, and associated services.

Do wind farms need a control system?

The enormous growth of both onshore and offshore wind farms imposes various requirements on wind farm control techniques. However, wind farms' inherent system complexities cause significant barriers to control system design.

Why is wind farm control important?

The control system is at the core of wind farm operations and has a critical influence on the power capture efficiency, economic profitability and maintenance cost of wind farms. The enormous growth of both onshore and offshore wind farms imposes various requirements on wind farm control techniques.



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Wind Farm Control

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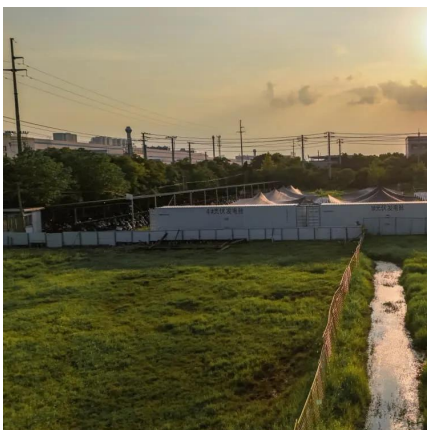
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