

## SolarInnovate Energy Solutions

# Power generation principle of new energy base station



## Overview

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Due to the uneven distribution of renewable resources and electricity load centers in China, renewable energy usually needs to be delivered a long distance from the generation base to the load center. How.

How will the new energy power system evolve?

As the proportion of new energy, especially wind power and solar power increases in the power system, the structural characteristics and operation control methods of the traditional power system will undergo fundamental changes, thereby forming the new energy power system .

What is new energy power system?

The utilization of new energy with large scale is a recognized development trend. Therefore, with the increase of the proportion of new energy in the power system, the structural characteristics and operation control methods of the traditional power system will have a essential change, thus forming the new energy power system.

What changes have taken place in the energy power system?

Fundamental changes have taken place in the structure, operation control methods, planning, construction and management of the power system, which will gradually form a new power generation system, that is, the new energy power system. 3. The new energy power system control and optimization methods 3.1. Effective use of demand-side resources.

What are the characteristics of a new energy power system?

Real-time power supply and demand balance of the power system. Moreover, development of the new energy increases the proportion of that in the grid, the new energy power system should also have characteristics such as controllability, safety, integrity, and intelligence.

Why do we need a peak-shaving capacity of power generation?

After a large amount of renewable energy is on grid, for the purpose of

ensuring the reliability of power supply, the system peak-shaving capacity of power generation must be increased.

How can new energy power system reduce impact on traditional power system?

Research on the new energy power system will help to reduce the impact on traditional power system, which is derived from new energy being on-grid with large scale. The first is to explore new power supply modes to guarantee the power system stability .

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