

Energy storage facilities participate in power grid peak regulation





Overview

What is peak-regulation capability of a power grid?

Principle of the evaluation method The peak-regulation capability of a power grid refers to the ability of power supply balancing with power load, especially in the peak load and valley load periods. Specifically, the adjustment range of power supply in one day should be high enough to reach the peak load and low enough to reach the valley load.

Why should energy storage devices be connected to the power grid?

The connection of energy storage devices to the power grid can not only effectively utilize the power equipment, reduce the power supply cost, but also promote the application of new energy, improve the stability of the system operation, reduce the peak-valley difference of the power grid, and play an important role in the power system.

What is peak-regulation capability?

Also, the peak-regulation capability determines the renewable energy consumption and power loads of cities by mitigating power output fluctuation in the regulation process of power grid.

Does nuclear power have peak-regulation capacity?

In this paper, nuclear power is assumed to have no peak-regulation capacity. For renewable energy, the Renewable Energy Act of People's Republic of China stipulates that renewable energy generation can be scheduled in priority during the power grid operation.



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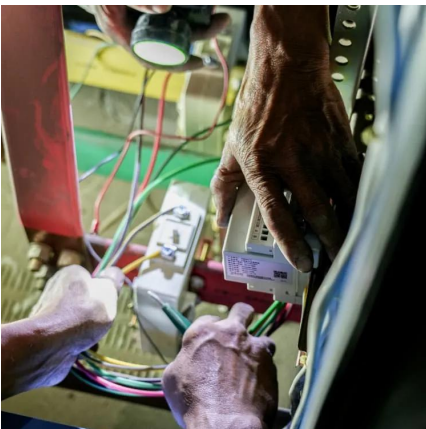
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