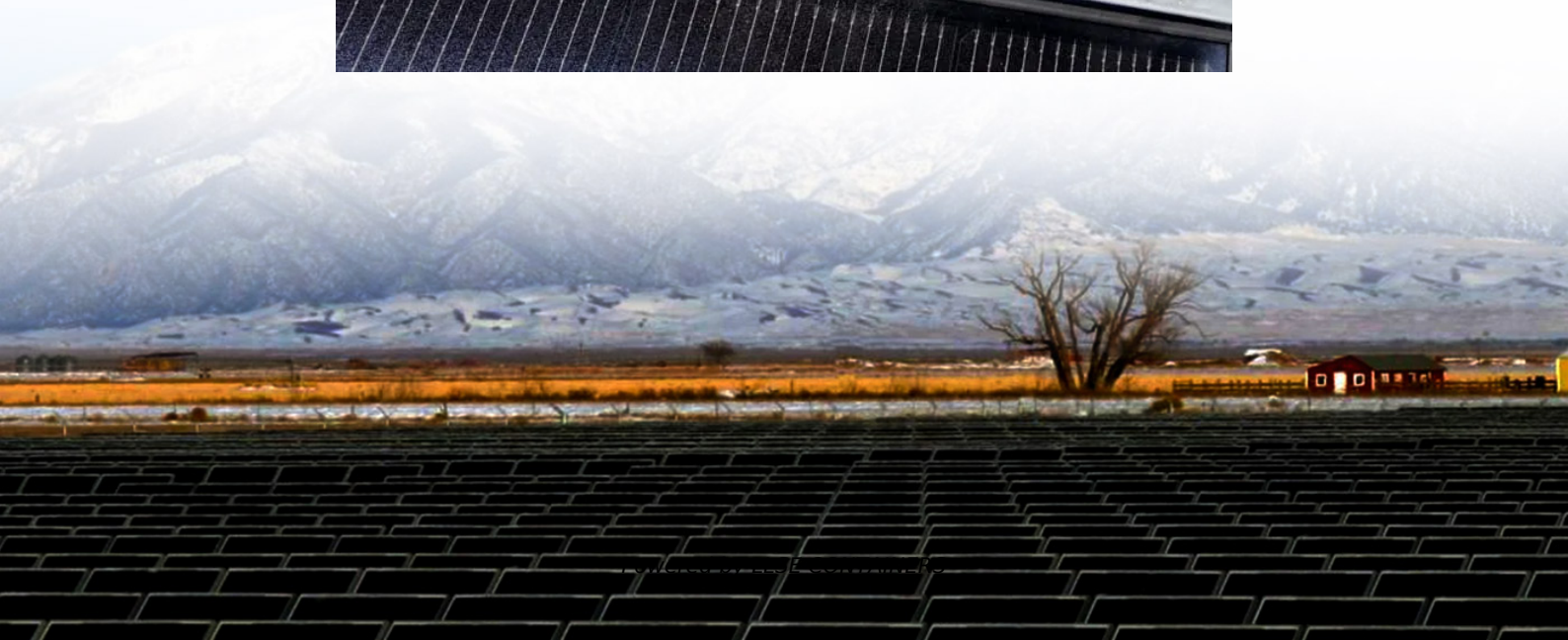


Demand for outdoor energy storage power supply field





Overview

Why is energy storage and demand response important in China?

Providing valuable policy implications for the development of energy storage and demand response in China. Energy storage and demand response offer critical flexibility to support the integration of intermittent renewable energy and ensure the stable operation of the power system.

Why is energy storage important?

Energy storage enables the balancing of wind and solar energy by storing excess power during periods of low demand and discharging it during peak demand, thereby enhancing the flexibility of renewable energy output.

Which peaks and valleys are more suitable for energy storage?

In contrast, the peaks and valleys of PV generation are more suitable for energy storage. Demand response is primarily concentrated in GD, SD, EA, and NR, regions with high power loads, which aligns with the current demand response pilot regions in China.

How does energy storage affect demand response?

The utilization of demand response is offset by the more cost-effective flexibility options provided by energy storage, leading substitution between energy storage and demand response. Nevertheless, as demand response capacity and time period increase, demand response grows rapidly.



Demand for outdoor energy storage power supply field



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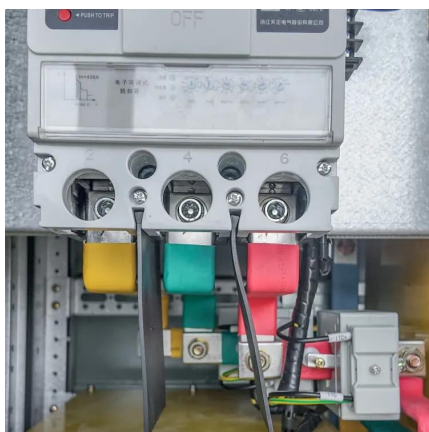
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