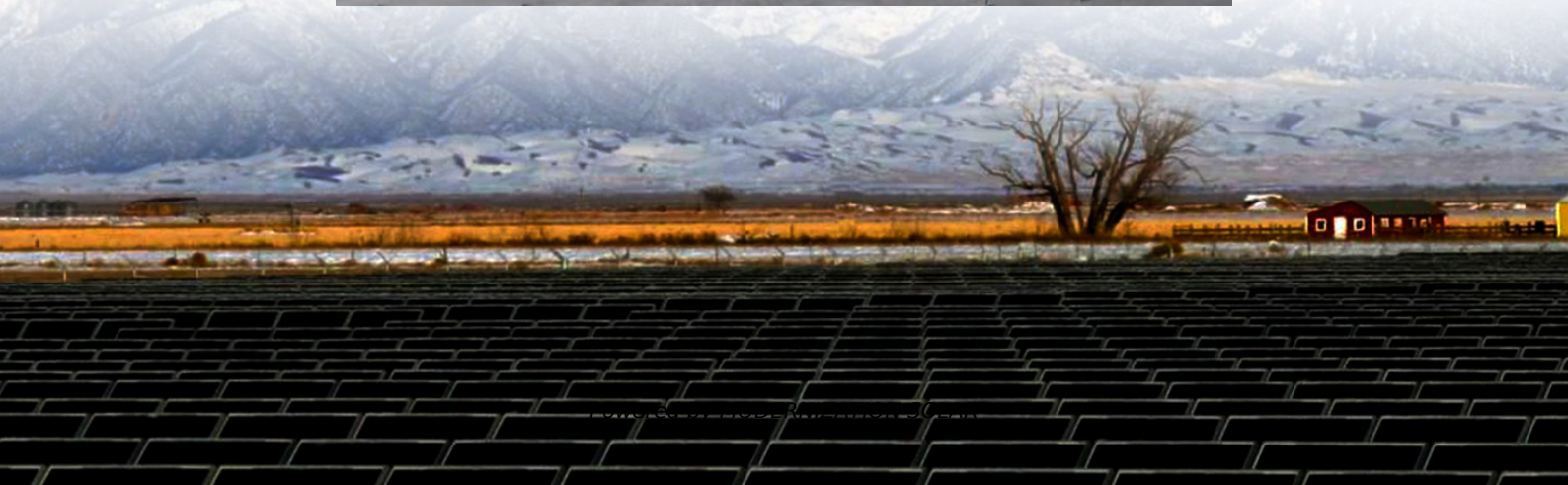


Strengthen the construction of power grid peak load regulation and energy storage





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.

How effective is peak-load regulation capacity planning?

Based on probabilistic production simulation, a novel calculation approach for peak-load regulation capacity was established in Jiang et al. (2017), which is still effective for peak-regulation capacity planning when some information of renewable energy and loads is absent.

Is the proposed method practical for peak-regulation evaluation of power grid?

(1) The proposed method is practical for peak-regulation evaluation of power grid. On one hand, the proposed method features high efficiency. It only takes a few seconds to complete all computations and give the visual results for a practical power grid.

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.



Strengthen the construction of power grid peak load regulation and

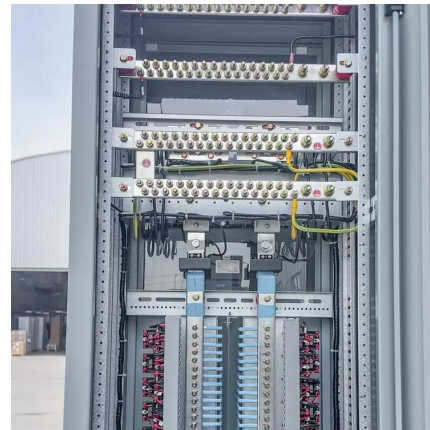


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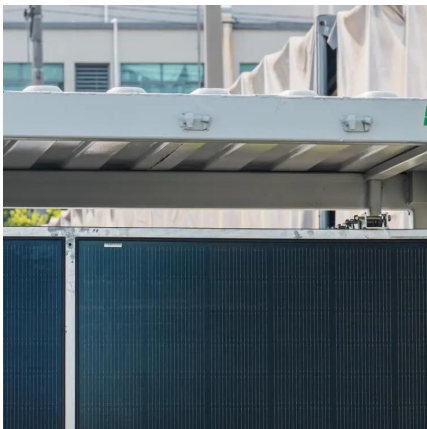
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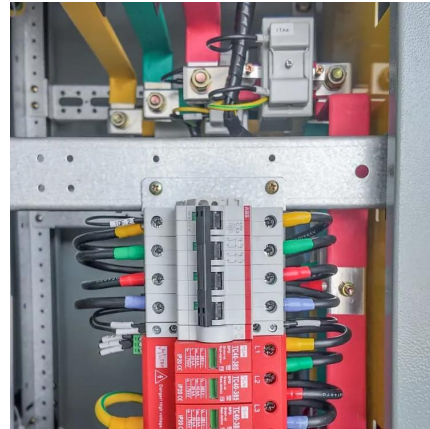
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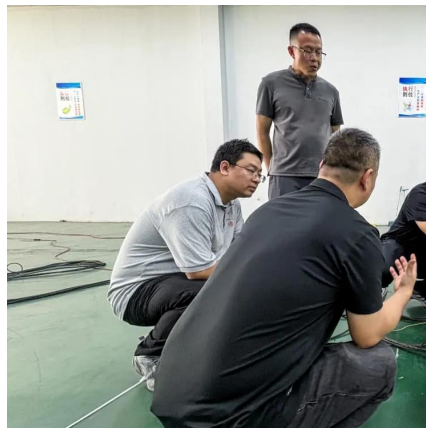
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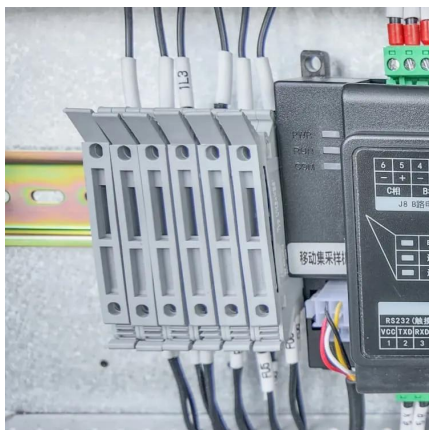
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China s energy storage peak load regulation

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