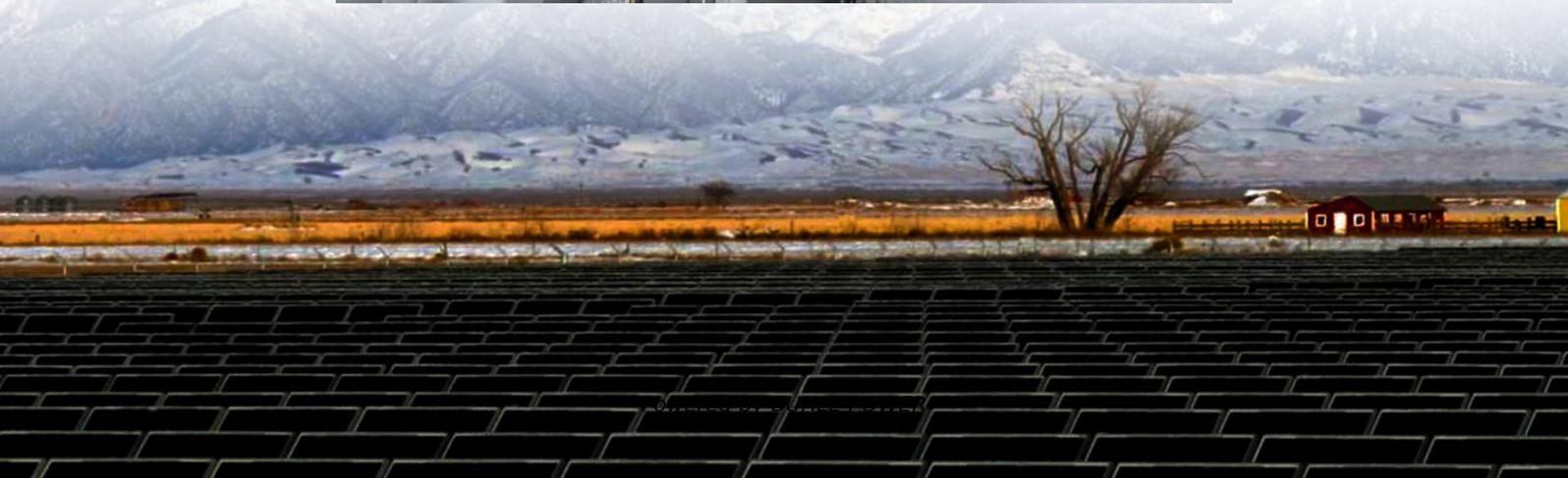
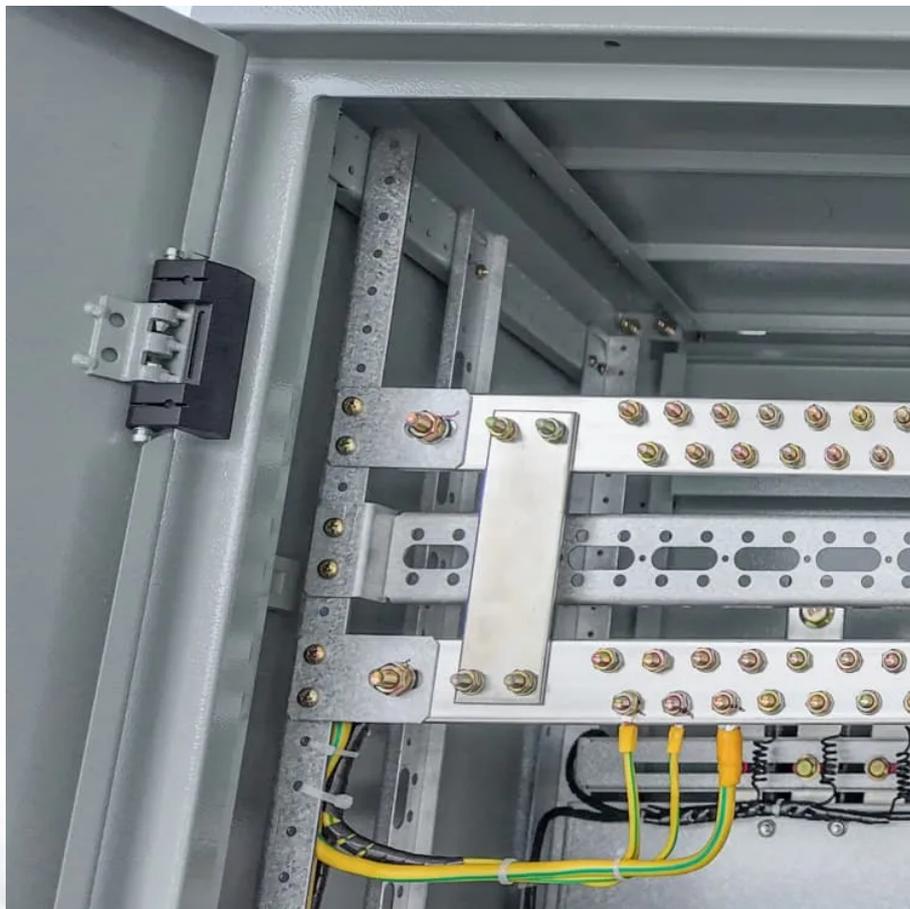


Peak-Valley Energy Storage Power Station Construction Plan





Overview

To support long-term energy storage capacity planning, this study proposes a non-linear multi-objective planning model for provincial energy storage capacity (ESC) and technology selection in China. The m.

What is the peak year for energy storage?

The peak year for the maximum newly added power capacity of energy storage differs under different scenarios (Fig. 7 (a)). Under the BAU, H-B-Ma, H-S-Ma, L-S-Ma, and L-S-Mi scenarios, the new power capacity in 2035 will be the largest, ranging from 47.2 GW to 73.6 GW.

Can energy storage peak-peak scheduling improve the peak-valley difference?

Tan et al. proposed an energy storage peak-peak scheduling strategy to improve the peak-valley difference . A simulation based on a real power network verified that the proposed strategy could effectively reduce the load difference between the valley and peak.

Can a power network reduce the load difference between Valley and peak?

A simulation based on a real power network verified that the proposed strategy could effectively reduce the load difference between the valley and peak. These studies aimed to minimize load fluctuations to achieve the maximum energy storage utility.

How is energy storage capacity planning determined?

The annual energy storage capacity planning is determined by synthesizing the energy output of all time slices. It is also a common and mature method in power planning models and is sufficient for the proposed model based on its application in similar models.



Peak-Valley Energy Storage Power Station Construction Plan



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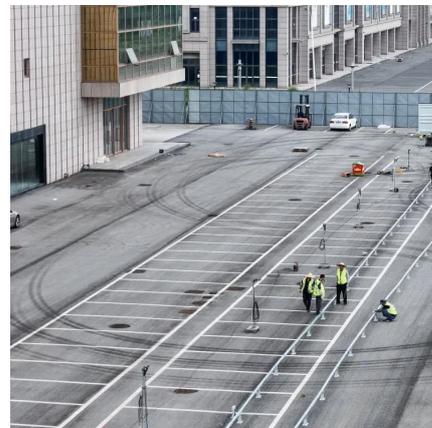


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