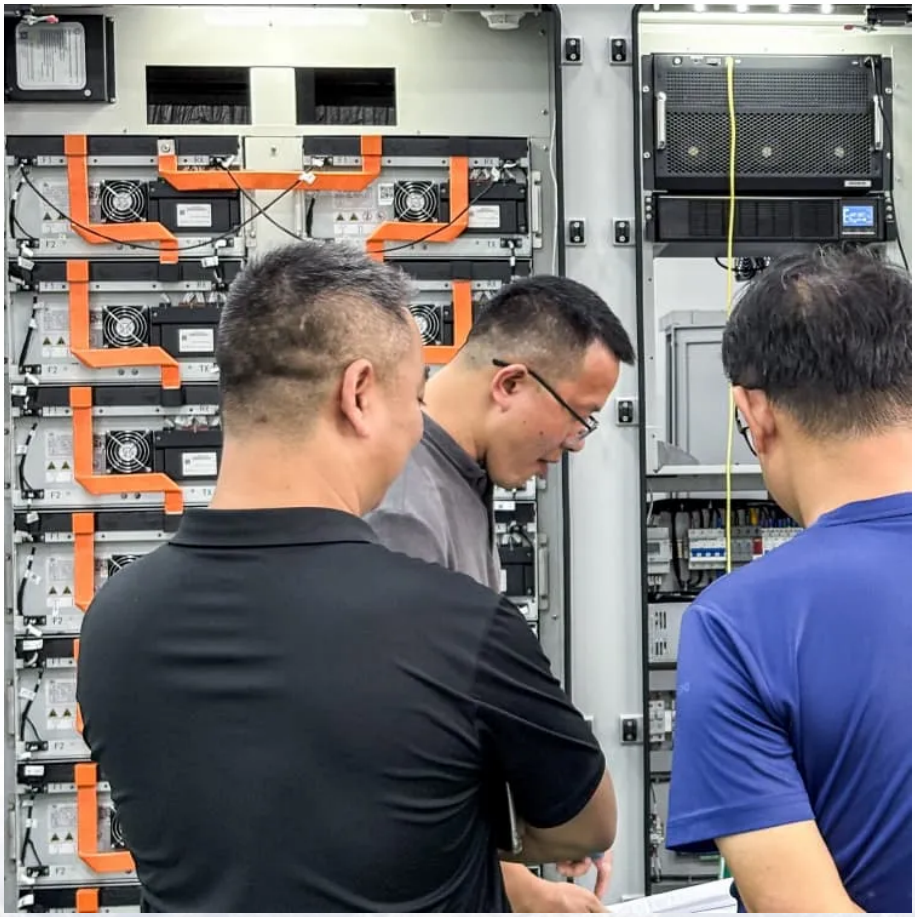
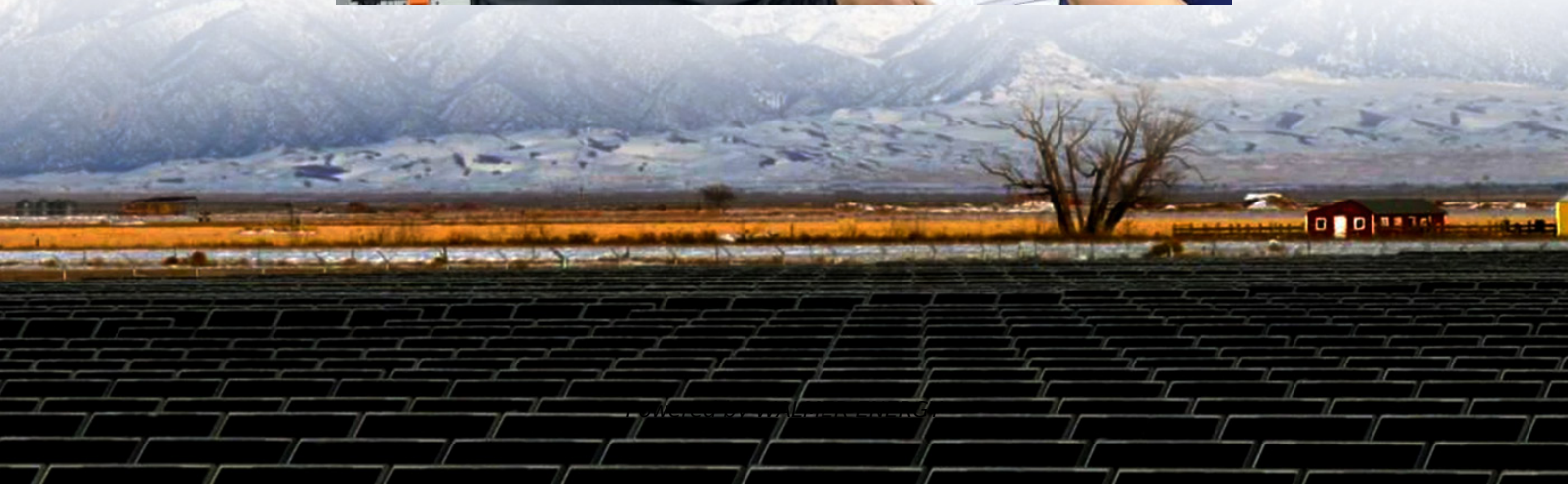
WALMER ENERGY

Relationship between energy storage cabinet price and capacity





Overview

How do energy storage operators make decisions?

Energy storage operators act as followers, making decisions regarding storage capacity and operational strategies based on the tariffs set by the grid. Their decision-making process incorporates historical capacity tariffs, operating costs, expected returns, and market dynamics.

Why do energy storage systems use peak and Valley arbitrage?

This result is attributable to the proposed method, which considers peak and valley arbitrage gains when formulating the capacity tariff. By leveraging peak and valley arbitrage, energy storage systems offset some of their costs, reducing the need for full grid subsidies and lowering the capacity charge.

Can a capacity tariff optimization model save the energy storage system cost?

If we do not consider the Stackelberg game mechanism, the capacity tariff of the energy storage plant is calculated as 584.76 CNY/MW according to the traditional method, which shows that the capacity tariff optimization model of the grid energy storage plant proposed in this paper can save the system cost.

How does the grid-side energy storage choose to charge and discharge power?

Charge and discharge power and state of charge of the grid-side energy storage. According to Fig. 7, it can be seen that the grid-side energy storage chooses to charge at the time of low and flat electricity prices and discharge at the time of peak electricity prices.

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