

ContainerPower Energy Solutions

Swaziland Energy Storage System Peak Shaving and Valley Filling Profit Model



Overview

Do energy storage systems achieve the expected peak-shaving and valley-filling effect?

Abstract: In order to make the energy storage system achieve the expected peak-shaving and valley-filling effect, an energy-storage peak-shaving scheduling strategy considering the improvement goal of peak-valley difference is proposed.

How is peak-shaving and valley-filling calculated?

First, according to the load curve in the dispatch day, the baseline of peak-shaving and valley-filling during peak-shaving and valley filling is calculated under the constraint conditions of peak-valley difference improvement target value, grid load, battery power, battery capacity, etc.

Does constant power control improve peak shaving and valley filling?

Finally, taking the actual load data of a certain area as an example, the advantages and disadvantages of this strategy and the constant power control strategy are compared through simulation, and it is verified that this strategy has a better effect of peak shaving and valley filling. Conferences > 2021 11th International Confe.

How do power generation and consumption agents regulate peak load shifting and valley filling?

By analyzing the guidance of the market price control mechanism, various power generation and consumption agents participate in peak load shifting and valley filling through price guidance of the power grid, thus achieving the regulation needs of the power grid.

Does peak shaving power reduce Esed and ocgr?

A correction model of peak shaving power of ES with the objective of minimizing ESED and OCGR was established.

How does Guangdong power grid use data for price adjustment?

The data for basic power consumption scenarios is also used as a reference for price adjustment by the price-setting party in the peak-shaving scenario. Guangdong power grid sets prices according to peak, normal and valley power consumption periods, with a ratio of 1.7:1.0:0.38.

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