



MODERNIZATION SOLAR

Energy Storage Product Cooperation





Overview

What is the energy cooperation-based storage sharing strategy?

In the energy cooperation-based storage sharing strategy, all participants aim to maximize the overall benefits of the alliance, building on energy trading to overcome the limitations of the previous two sharing models.

What are shared energy storage operational strategies?

Current research on shared energy storage operational strategies focuses on three main areas: capacity allocation [14, 15], energy trading [16, 17], and storage sharing based on energy cooperation . Under the capacity allocation strategy, consumers are limited to using only the storage capacity assigned to them.

Which SoC should be maintained in the energy storage system?

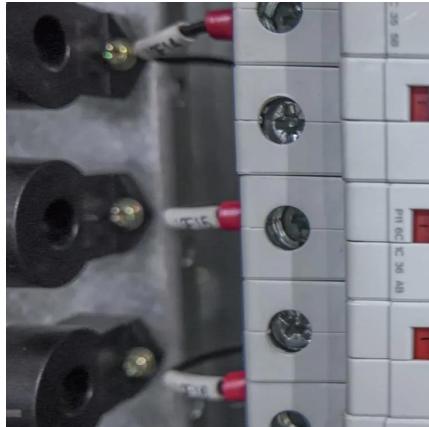
The SOC of the energy storage system must always be maintained between S_{\min} and S_{\max} to ensure the safe operation of the battery and prevent overcharging and deep discharging. (24) $S_{\text{CES}} \geq S_{\text{CES,0}}$.

What is the integrated energy collaboration model for PCs and CES?

An integrated energy collaboration model for PCS and CES is developed. This model optimizes the coordination between photovoltaic generation, energy storage, and charging operations, utilizing intelligent scheduling to maximize energy utilization.



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