Analysis of enterprise energy storage leasing model

How does leased energy storage reduce the lifecycle cost of SES?
It reduces the investment in leased energy storage to reduce the lifecycle cost of SES. When the robustness of the scheme is at its peak (? s, i = 24), the power and capacity configuration values of SES are 92.19 kW and 219.56 kWh, respectively.

What is the optimal budget for leased Energy Storage (SES)?
With the capital budget increase,the self-built mode gradually dominates,and the investment in leased energy storage decreases to 0. When the capital budget reaches ¥670,080.26,the SES configuration remains unchanged,indicating that the optimal budget for investing in SES is ¥670,080.26.

Can self-built and leased energy storage be used for shared energy storage?
A novel hybrid mode that integrates self-built and leased energy storage for configuring shared energy storage. A step-cost decrement model is established for the self-built energy storage mode. A two-stage robust optimization model is developed considering supply-demand uncertainty.

Does shared energy storage planning improve the economics of energy storage?
The results show that the proposed shared energy storage planning model significantly improves the economicsof energy storage investment and system operation,even under budgetary constraints.

When is hybrid mode used for leased Energy Storage (SES)?
When the budget exceeds ¥60,972.05,the hybrid mode is used for SES configuration. With the capital budget increase,the self-built mode gradually dominates,and the investment in leased energy storage decreases to 0.

When leased mode is used for SES configuration?
It can be observed that when the investment budget does not exceed ¥60,972.05,the leased mode is employed for SES configuration; the maximum power and capacity of leased energy storage are achieved at 95.20 kW and 227.48 kWh,respectively. When the budget exceeds ¥60,972.05,the hybrid mode is used for SES configuration.

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