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Title: Price of energy storage on the large power grid side

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What is grid-side energy storage?

The grid-side energy storage studied in this paper refers to the energy storage facilities deployed in the transmission and distribution segments of the power system. The position of grid-side energy storage in the power system is shown in Fig. 1.

How much power does a grid-side energy storage plant use?

The planned value of the capacity of the energy storage plant was 427.60 kW h, and the maximum value of the charging and discharging power of the energy storage plant was 85.52 kW. Fig. 6. Output of each unit in the system after the integration of grid-side energy storage. Fig. 7.

What is the capacity Tariff of grid-side energy storage?

Based on the capacity tariff calculation model of the Stackelberg game proposed in this paper, the capacity tariff of grid-side energy storage is 415.58 CNY/kW.

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.

Grid-side energy storage has become a crucial part of contemporary power systems as a result of the rapid expansion of renewable energy sources and the rising demand for grid stability. This ...

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