

Does the energy storage power station belong to power transmission and transformation



Overview

The energy storage power station primarily belongs to the realm of energy systems, specifically categorized under renewable energy technologies, electricity management, and integrated power solutions. How can energy storage system reduce the cost of a transformer?

Concurrently, the energy storage system can be discharged at the peak of power consumption, thereby reducing the demand for peak power supply from the power grid, which in turn reduces the required capacity of the distribution transformer; thus, the investment cost for the transformer is minimized.

Should energy storage power stations be scaled?

In addition, by leveraging the scaling benefits of power stations, the investment cost per unit of energy storage can be reduced to a value lower than that of the user's investment for the distributed energy storage system, thereby reducing the total construction cost of energy storage power stations and shortening the investment payback period.

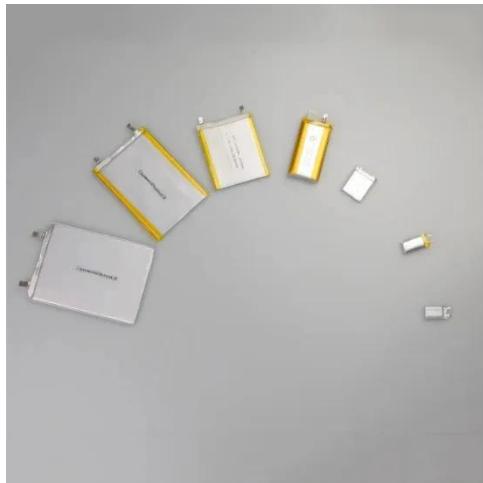
What time does the energy storage power station operate?

During the three time periods of 03:00–08:00, 15:00–17:00, and 21:00–24:00, the loads are supplied by the renewable energy, and the excess renewable energy is stored in the FESPS or/and transferred to the other buses. Table 1. Energy storage power station.

When does the energy storage system choose not to discharge?

When the grid price is in the valley period, such as 15:00–18:00, the energy storage system chooses not to discharge regardless of the power shortage. Thereafter, the energy storage system initiates the discharging mechanism when the grid price is in the peak period starting period of 18:00.

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