

Chemical energy storage power station configuration





Overview

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.

What is the configuration capacity of fesps?

The configuration capacity of FESPS is only 70% of that of conventional shared energy storage power station, which considerably reduces the configuration capacity and investment cost of energy storage equipment. Fig. 13.

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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