

Does the user-side energy storage system participate in a high reliability power supply transaction?

According to the above analysis, in order to fill the research gap of the user-side energy storage system participating in the high reliability power supply transaction, this paper first proposes a high reliability power supply transaction model between the user-side energy storage system and the power grid company.

Why is a user-side energy storage system important?

The user-side energy storage system can not only participate in the capacity market as a quick response resource for users to obtain benefits [3,4],but also ensure users' power consumption according to the actual high reliability power supply scenarioby taking advantage of its high flexibility,fast response speed and other characteristics .

What is a user-side small energy storage device?

With the new round of power system reform, energy storage, as a part of power system frequency regulation and peaking, is an indispensable part of the reform. Among them, user-side small energy storage devices have the advantages of small size, flexible use and convenient application, but present decentralized characteristics in space.

How does the user adjust the investment behavior of the energy storage system?

The user adjusts the investment behavior of the energy storage system, and determines the proportion of high reliability power supply load and the charging and discharging depth strategy by configuring the rated capacity and rated charging and discharging power of the energy storage system.

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To improve the utilization of distributed power storage and increase its economic benefits, we propose a user-side distributed power storage sharing strategy.

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Sudan user-side distributed energy storage

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With the development trend of the wide application of distributed energy storage systems, the total amount of user owned energy storage systems has been considerable [1, 2]. The ...

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