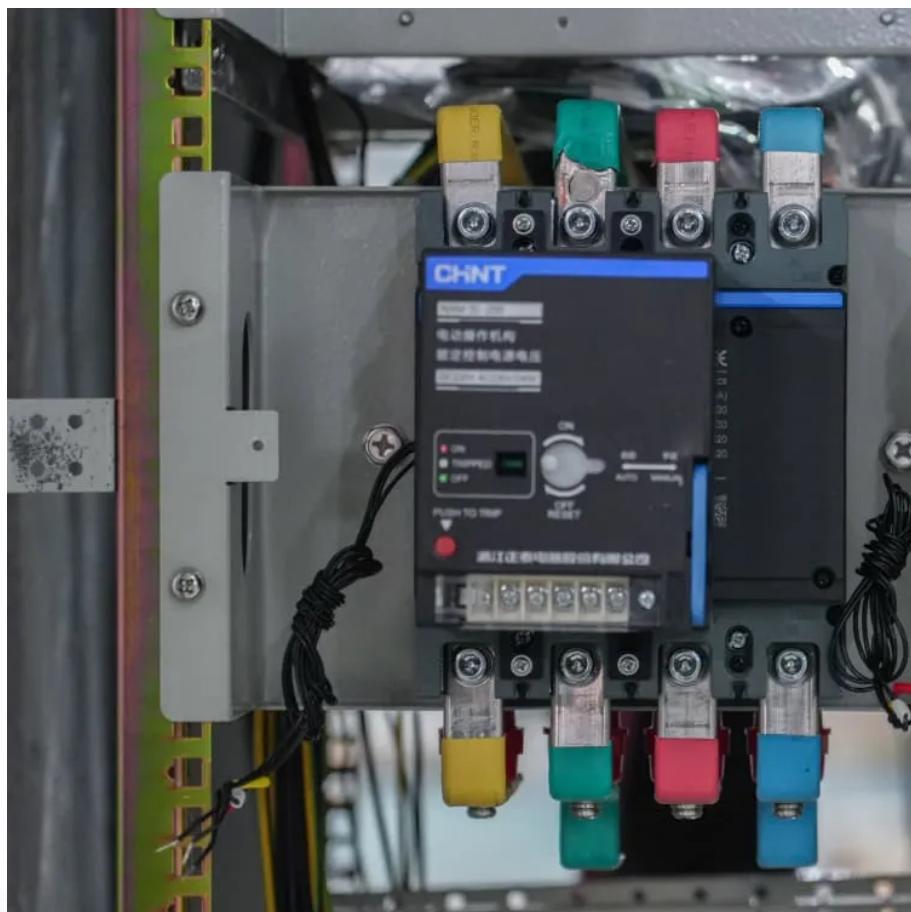




BUHLE POWER

Power supply side user side energy storage





Overview

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 scenario by taking advantage of its high flexibility, fast response speed and other characteristics .

How to optimize the energy storage system on the user-side?

In the optimization configuration of the energy storage system on the user-side in Fig. 6, it is necessary to consider the constraints of high reliability power supply tasks on the capacity of the energy storage system on the user-side, as well as the impact of its actual output on the objective function.

How to plan the energy storage system on the user side?

For the planning of the energy storage system on the user side, the main problems are: Li D et al. [9] consider the annual comprehensive cost of installing the energy storage system and the daily electricity charge of users and establish a two-level optimization model.



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