



BUHLE POWER

User-side energy storage grid power transmission





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.

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.

What is a user-side small energy storage device?

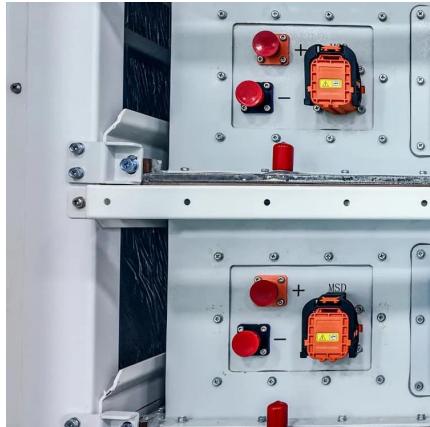
With the new round of power system reform, energy storage, as a part of power system frequency regulation and peaking, is an indispensable part of the reform. Among them, user-side small energy storage devices have the advantages of small size, flexible use and convenient application, but present decentralized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

What is the user-side energy storage system optimization configuration model?

The user-side energy storage system optimization configuration model proposed in this paper is a nonlinear, mixed-integer problem. The integer aspects mainly involve the decision variables in the outer optimization model: the rated capacity and rated charging/discharging power of the user-side energy storage system.



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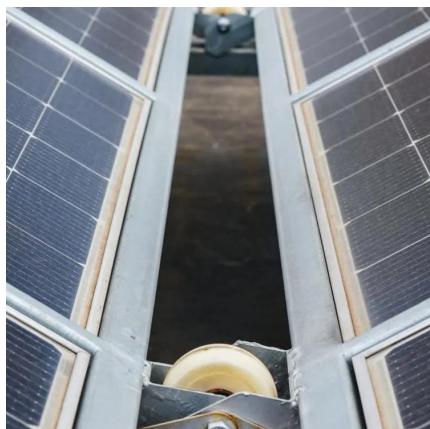


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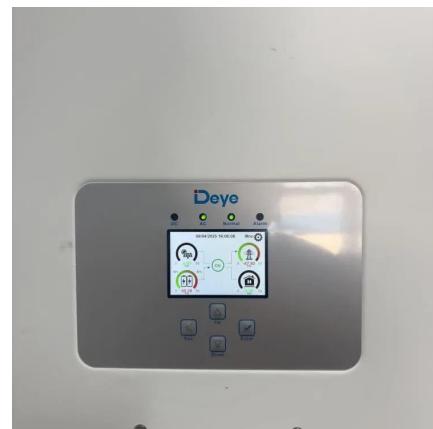


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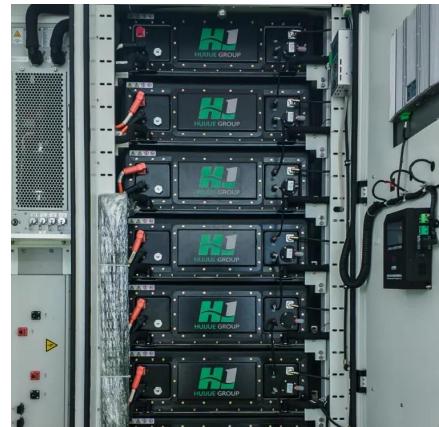
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