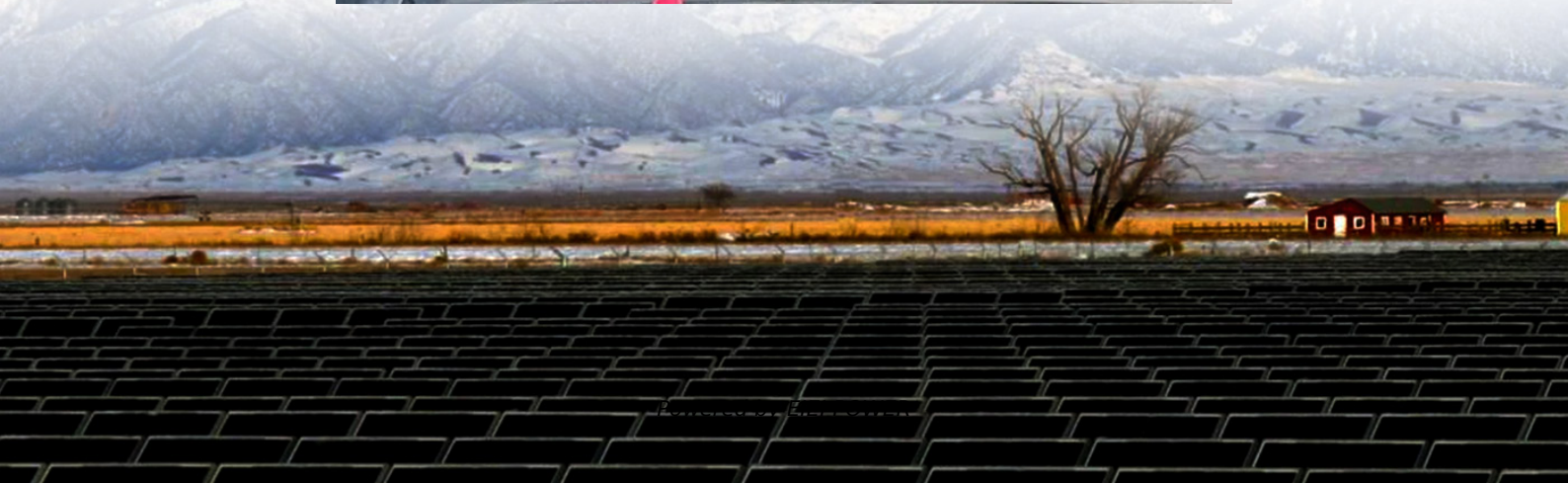


# The difference between the grid side and the user side of energy storage power supply





## Overview

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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.

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 .

What is a smart grid?

Smart grids are the ultimate goal of power system development. With access to a high proportion of renewable energy, energy storage systems, with their energy transfer capacity, have become a key part of the smart grid construction process.



## The difference between the grid side and the user side of energy storage

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### Grid side power supply side energy storage

What is the difference between power grid and energy storage? The power grid side connects the source and load ends to play the role of power transmission and distribution; The energy ...

### Differentiation between grid-side energy storage and ...

The optimal configuration of the rated capacity, rated power and daily output power is an important prerequisite for energy storage systems to participate in peak regulation on the grid ...



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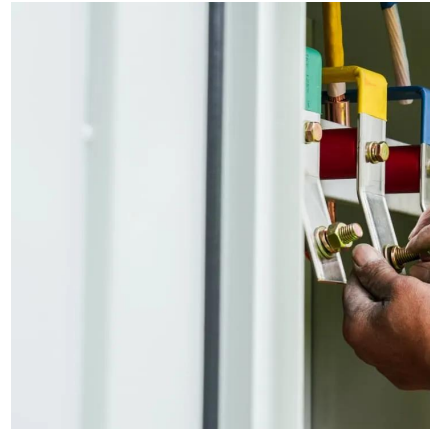
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### Dual-layer optimization configuration of user-side energy storage

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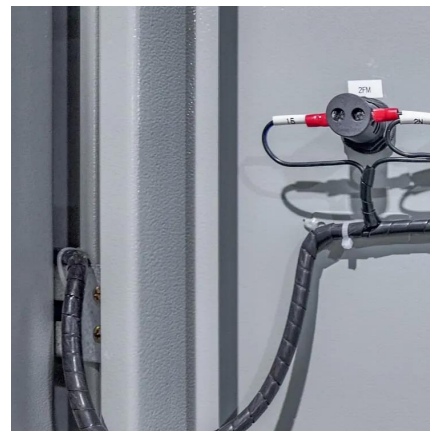


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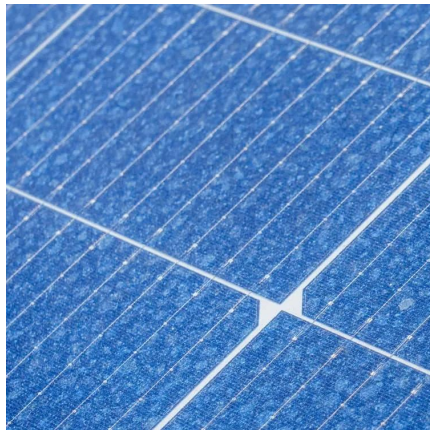


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