

# New energy storage cabinet configuration





## Overview

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In view of the increasing trend of the proportion of new energy power generation, combined with the basic matching of the total potential supply and demand in the power market, this paper puts forward the bidding.

How to calculate power generation cost after installation of energy storage facilities?

The power generation cost of new energy units after the installation of energy storage facilities is as follows: (7)  $C_{NS} = M + P_n \cdot \Delta Q' + S_b + S_{op} = M + P_n \cdot \int_{\Delta q_{min}}^{\Delta q_{max}} f(q) \cdot q \cdot dq + S_b + S_{op}$  (8)  $S_b = R \cdot Q_{str}$ ,  $S_{op} = N + K \cdot \Delta Q''$  (9)  $\Delta Q'' = \Delta Q - \Delta Q'$ .

Why should energy storage facilities be installed?

For new energy units, proper deployment of energy storage facilities can promote the consumption of excess generation, increase the option of selling electricity in the high price period, participate in the competition auxiliary service market, and improve the return on total life cycle assets.

What is the allowable output fluctuation range after adding energy storage?

The allowable output fluctuation range respectively are 3% and 5%, and the allowable fluctuation range after adding energy storage expands to 5% to 30%.

Why is energy storage important in a power system?

Energy storage of appropriate capacity in the power system can realize peak cutting and valley filling, reduce the pressure caused by the anti-peak regulation of new energy units, and smooth the fluctuation of new energy output, , , .



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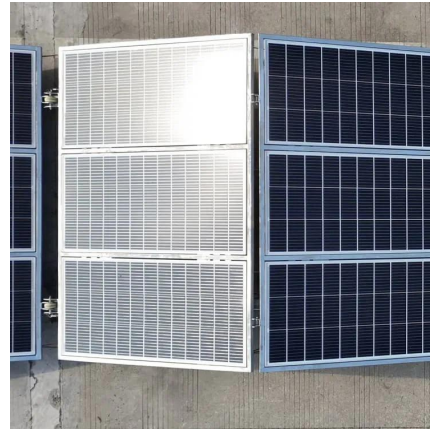


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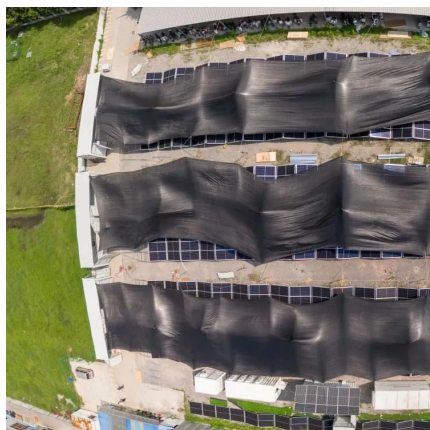


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