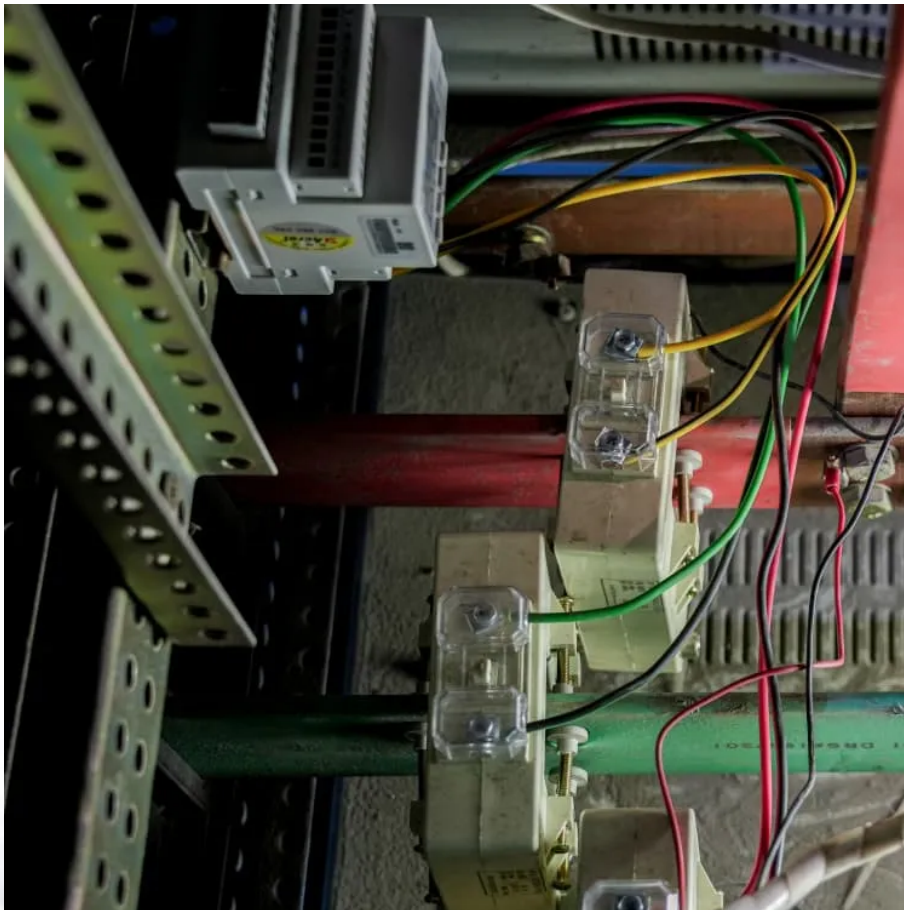


Comparison of 150-foot Energy Storage Container Bidding Prices with Solar Energy





Overview

What are the economic benefits of energy storage system (ESS)?

The economic benefits of ESS are measured based on the ESG concept. The performance of several battery types was assessed, as well as the effect of ESS rated power and capacity on economy. Energy storage systems (ESSs) can smooth loads, effectively enable demand-side management, and promote renewable energy consumption.

Does battery capacity increase the cost of ESS?

The cost of the ESS increased as the storage system capacity increased; however, this increase was smaller than the increase in the rated capacity. Fig. 11 (c) and (d) show that an increase in the battery capacity increased the fixed cost while slightly increasing the revenue. Moreover, the ESS net profit decreased with increased battery capacity.

What is the cost of power transmission and energy conversion equipment?

The unit power cost and capacity cost of the power transmission and energy conversion equipment were 50 (10 4 Yuan/MW), 54 (10 4 Yuan/MWh), respectively. The financing rate r was 6 %, and $x\%$ and $y\%$ were set to 2 %. The battery constant k_p was 1.5.

Why did ESS net profit decrease with increased battery capacity?

Moreover, the ESS net profit decreased with increased battery capacity. This may be because the ESS bidding strategy was already optimal in the existing price scenario: even when the rated capacity increases, a larger discharge capacity will increase the cost rather than generate more revenue to the ESS.



Comparison of 150-foot Energy Storage Container Bidding Prices wi

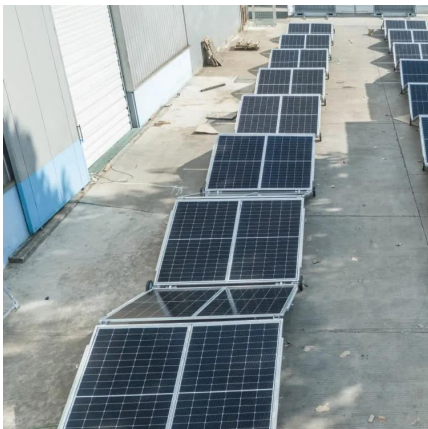
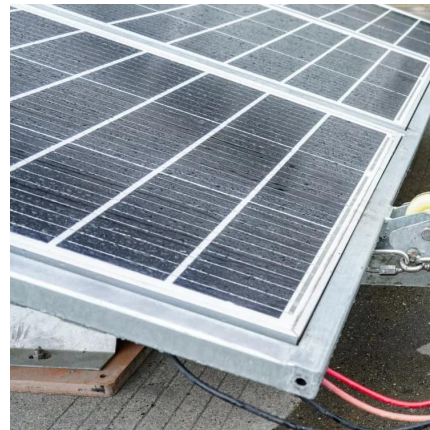


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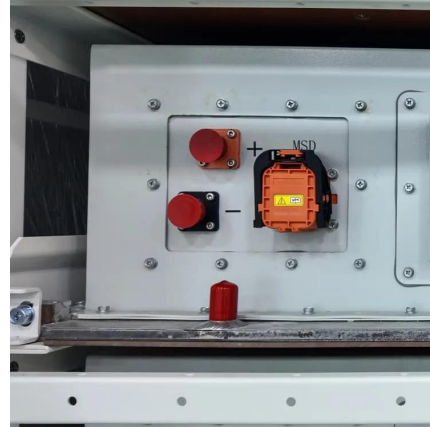


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