



BUHLE POWER

Evaluation and Unit Price of Wind-Resistant Mobile Energy Storage Containers





Overview

What is the total system cost of mobile energy storage?

The total system cost of mobile energy storage is the same as that of fixed energy storage, including investment cost, operating cost, and recovery cost. Unlike mobile energy storage, which incurs transportation costs during energy transportation, fixed energy storage incurs line transportation costs during energy transportation.

Can a fixed and mobile energy storage system improve system economics?

Tech-economic performance of fixed and mobile energy storage system is compared. The proposed method can improve system economics and renewable shares. With the large-scale integration of renewable energy and changes in load characteristics, the power system is facing challenges of volatility and instability.

Can integrated energy storage system generate more revenue than wind-only generation?

The integrated system can produce additional revenue compared with wind-only generation. The challenge is how much the optimal capacity of energy storage system should be installed for a renewable generation. Electricity price arbitrage was considered as an effective way to generate benefits when connecting to wind generation and grid.

What is the revenue of wind-storage system?

The revenue of wind-storage system is composed of wind generation revenue, energy storage income and its cost. With the TOU price, the revenue of the wind-storage system is determined by the total generated electricity and energy storage performance.



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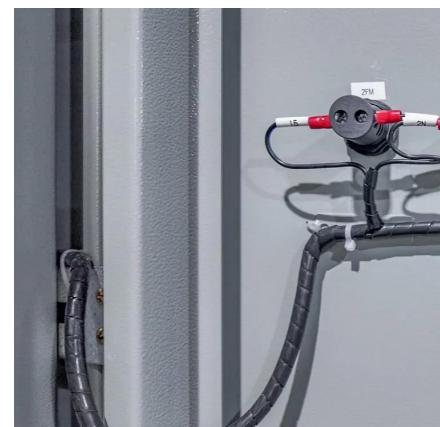


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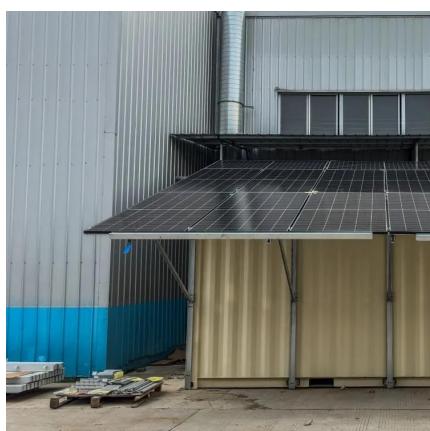
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