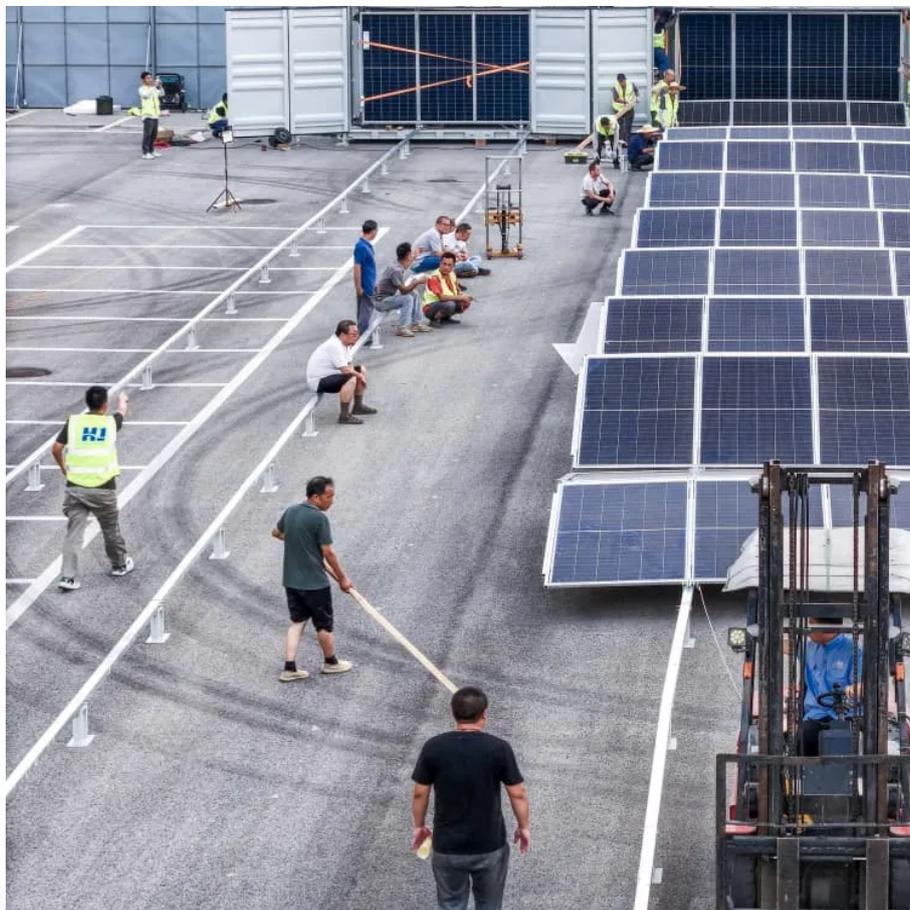


Wind power energy storage low price leader





Overview

How can wind energy be stored?

Since wind conditions are not constant, wind energy can be stored by combining wind turbines with energy storage systems. These hybrid power plants allow for the efficient storage of excess wind power for later use.

How can energy storage improve wind power penetration?

Introducing energy storage systems enabled the system to handle higher wind power penetration. For example, at a carbon capture price of 100 CNY per ton, energy storage capacity reached 127.563 MWh with an energy storage power of 74.9 MW (Scenario 7), reducing the cost of electricity supply to 0.152 CNY/kWh.

Can energy storage reduce wind abandonment losses?

The integration of energy storage further mitigated wind abandonment losses, improving system stability. Results showed that increasing the carbon capture price led to higher total power generation costs, rising from 3.129 million CNY (Scenario 1) to 3.584 million CNY (Scenario 3).

How can a high-performance storage system improve the profitability of wind turbines?

The combination of advanced wind technology and high-performance storage systems can significantly enhance the profitability of wind turbines and facilitate the integration of renewable energy into existing energy systems.



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