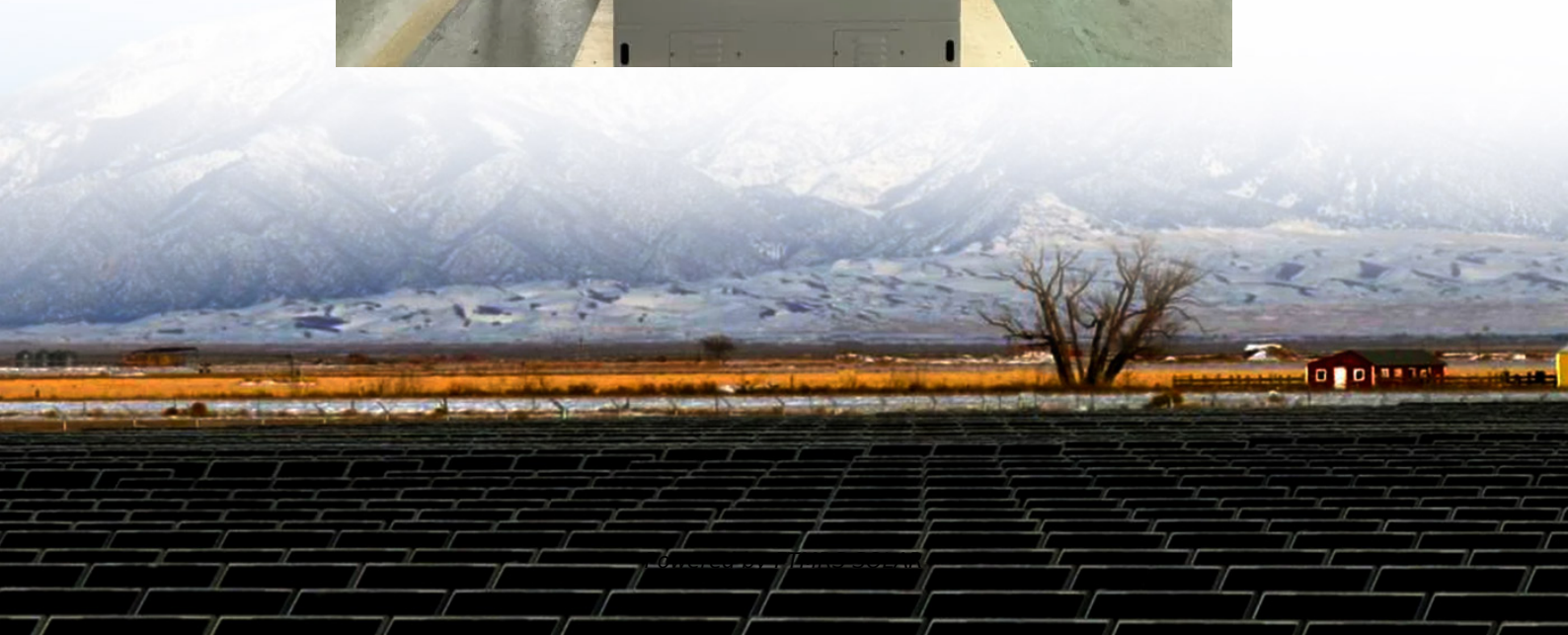


Wind power storage power station profit model





Overview

How does energy storage work in a wind farm?

After energy storage is integrated into the wind farm, one part of the wind power generation is sold to the grid directly, and the other part is purchased and stored with a low price, and then is sold with a high price through the energy storage system.

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.

Are large-scale wind and PV power stations a viable solution to the energy crisis?

Large-scale construction of wind and PV power has become a key strategy for dealing with the energy crisis. However, the variability and uncertainty of large-scale renewable energy power stations pose a series of severe challenges to the power system, such as insufficient peak-shaving capacity and high curtailment rates.

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.



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