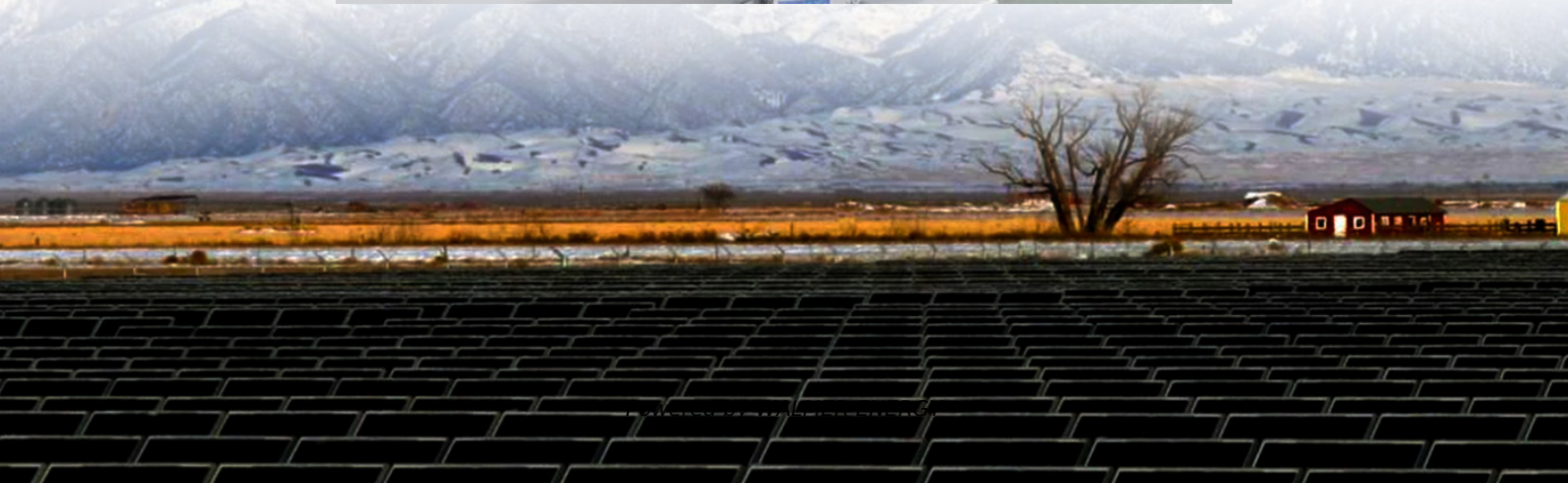


Sukhumi wind power solar power generation energy storage





Overview

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.

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.

What is the energy supply system at Xiaoma Park?

The park lacks original energy supply equipment but has an established transmission line infrastructure. An integrated regional energy system is constructed by adding 700 MW photovoltaic generators, 1000 MW wind turbines, 300 MW pumped storage units, 100 MW energy storage stations, and 200 MW hydrogen storage facilities for hybrid storage.



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