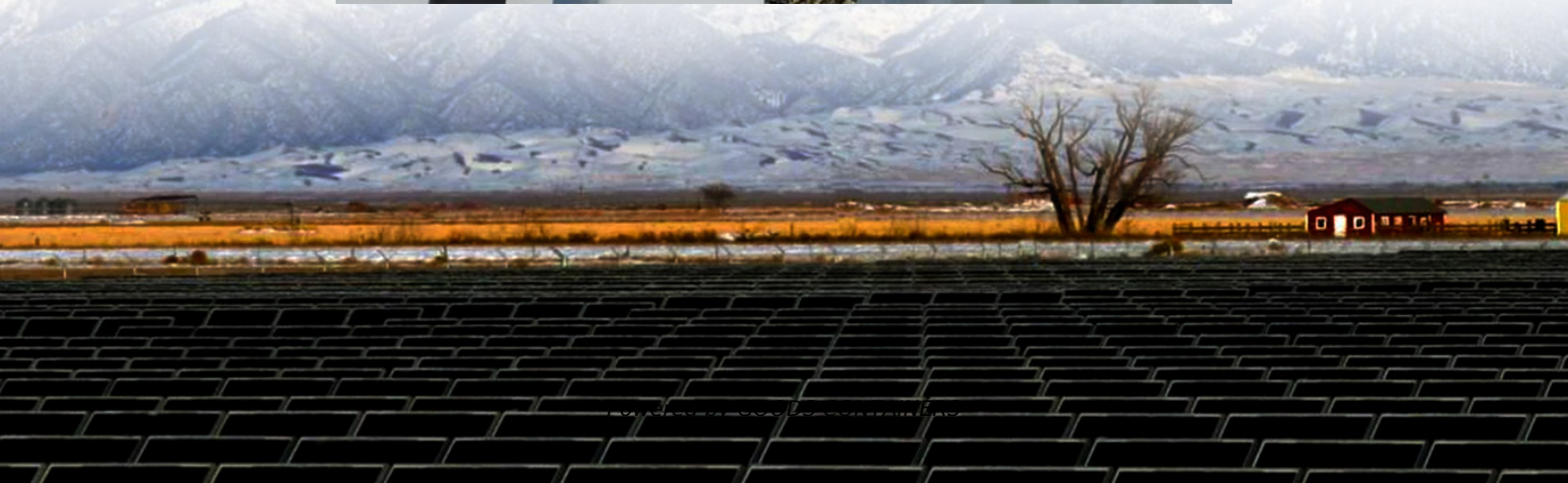


Wind power storage and solar energy storage are more economical





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 a wind-storage coupled system can increase the initial investment?

When integrating the energy storage plant, it stores the wind power when the electricity price is low, and releases it when the price is high. The total income of the wind-storage coupled system can be significantly increased. However, it will increase the initial investment by adding energy storage system.

How integrating energy storage technologies into wind generation improve economic performance?

The economic performance by integrating energy storage technologies into wind generation has to be analyzed for commercial development . One solution is to implement the electricity price arbitrage strategy. The real-time pricing (RTP) varies in the market throughout a single day due to the different patterns of supply and demand.

Do different energy storage methods have different environmental and economic impacts?

However, different energy storage methods have different environmental and economic impacts in renewable energy systems. This paper proposed three different energy storage methods for hybrid energy systems containing different renewable energy including wind, solar, bioenergy and hydropower, meanwhile.



Wind power storage and solar energy storage are more economical

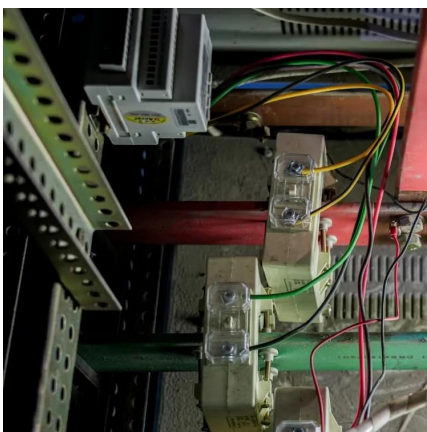
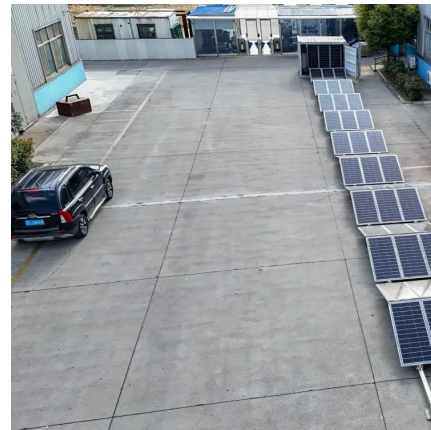


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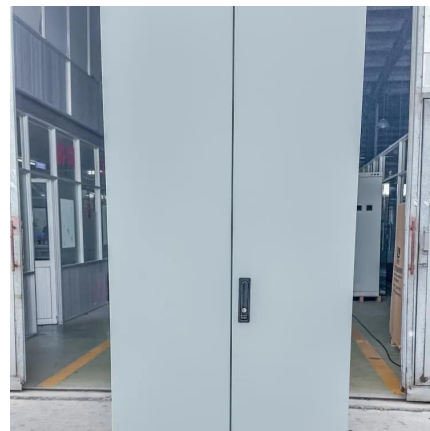
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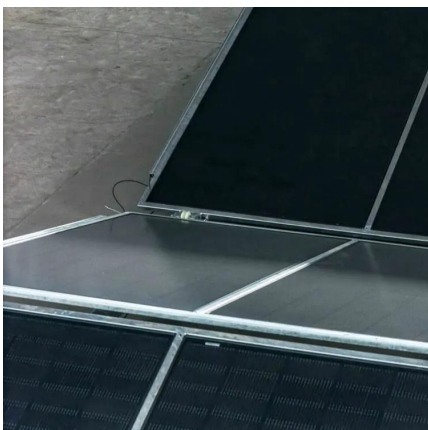
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