

Algeria BESS Telecom Energy Storage Project Bidding





Overview

What is a Bess project?

The SPPC, administered by the Saudi Ministry of Energy, aligns with the National Renewable Energy Program (NREP). Once completed, the BESS project is expected to be the world's largest. Location: Saudi Arabia Capacity: 8GWh of storage capacity Significance: World's largest BESS Project Main Company Involved: Saudi Power Procurement Company.

What is the bidding strategy of Bess in the frequency regulation market?

Aiming at the multi time scale clearing mechanism in the frequency regulation market, this paper divides the bidding strategy of the BESS participating in the frequency regulation market into two stages: the day ahead market (DAM) and the real time market (RTM).

What is the most reliable bidding strategy for a Bess?

According to the analysis in Sect. 5.1, the most reliable bidding strategy for each BESS at this time is to declare its marginal cost curve as its supply function, so as to determine its own frequency regulation mileage quotation and capacity. Therefore, in this case, the five BESSs take their marginal costs as the declared supply function.

What does Bess stand for?

The implementation of the world's largest battery energy system (BESS) project progresses as Saudi Arabia begins qualification tenders. A Saudi Arabian entity that has been tasked with procuring electricity generation projects has commenced the process. Saudi Power Procurement Company (SPPC) is licensed as the sole buyer of electrical energy.

Why is Bess set to only participate in the frequency regulation market?

Since the revenue of frequency regulation market is generally higher than that of energy market, the BESS is set to only participate in the frequency



regulation market in this case, that is, its maximum declarable frequency regulation capacity is selected according to the rated power.

Does Bess have a state of charge (SOC)?

However, the participation of BESS in the electricity market is constrained by its own state of charge (SOC). Due to the inability to accurately predict the next day's real-time SOC, the mismatch between bidding strategy and real-time scheduling is easy to occur.



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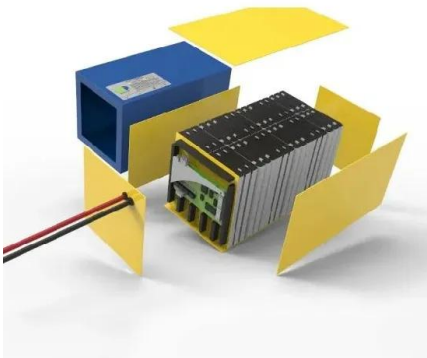
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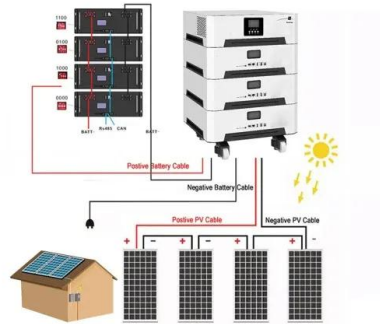




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To provide general guidelines and recommendations for the procurement of a BESS in different environments and recommendations for BESS procurement based on operations experience

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