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BESS hybrid energy storage project bidding



Overview

The Solar Energy Corporation of India (SECI) has officially announced the scheduling of a pre-bid meeting for its recently issued “Request for Proposals (RfP) for Selection of Battery Energy Storage System (BESS) Supplier for a 600 MW / 1200 MWh Battery Energy Storage System (BESS) along with 15 years of Comprehensive Service and Maintenance (DC Package).” Will large-scale battery energy storage systems support grid stability and energy transition?

The introduction of large-scale BESS projects will further support grid stability and energy transition efforts. The SPPC has invited bids for large-scale Battery Energy Storage Systems (BESS), with submissions due by 2 June 2025.

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.

How effective is the bidding strategy of energy storage power station?

The bidding strategy of energy storage power station formulated in most papers relies on the day-ahead predicted price and regulation demand, and the effectiveness of the bidding strategy is based on the premise that day-ahead forecast is accurate [9, 10, 11].

When will Bess projects be developed?

The BESS projects will be developed in key regions across the kingdom: In December 2024, SPPC announced the list of qualified bidders. The bid submission deadline is set for 2 June 2025. Each project will be developed under a build-own-operate (BOO) model, with the selected bidder holding full ownership through a special purpose vehicle (SPV).

Is South Korea a Bess supplier?

South Korea is also a major exporter of batteries and energy storage technologies, with Samsung SDI and LG Energy Solution among significant suppliers of products from cells to complete BESS solutions internationally. According to the newest Basic Plan, the country aims to capture a 30% share of the global BESS market by 2036.

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).

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