

What is the optimal bidding strategy for a renewable-based virtual power plant?

Optimal bidding strategy of a renewable-based virtual power plant including wind and solar units and dispatchable loads [J] A risk-based gaming framework for VPP bidding strategy in a joint energy and regulation market [J] Iranian Journal of Science and Technology, Transactions of Electrical Engineering, 43 (2019), pp. 545 - 558 H. Wang, L.

Can energy storage reduce the uncertainty of distributed wind and photovoltaic power generation?

The uncertainty of distributed wind and photovoltaic power generation is mitigated using energy storage in the microgrid, and market benefits are obtained through strategic bidding. In , a two-stage bidding strategy was presented for the microgrid containing wind power and pumped storage.

Can wind power and photovoltaic power mitigate uncertainties?

Combined Bidding Considering the Complementary Characteristics of Wind and Solar Gomes et al. (2016) pointed out that the combination of wind power and photovoltaic power can mitigate uncertainties. The combined bidding strategies were developed in and .

What is the optimal bidding strategy of wind power producers?

Optimal bidding strategy of wind power producers in pay-as-bid power markets [J] A hybrid approach based on IGDT-MPSO method for optimal bidding strategy of price-taker generation station in day-ahead electricity market [J]

Do wind power producers and hydropower units benefit from combined bidding?

It is verified that both wind power producers and hydropower units benefit from the combined bidding strategy. Also, the system can reduce premiums and subsidies as the imbalances decrease. In , the risk-averse bidding strategy was proposed for wind-hydro combination with only partial information available.

How do bidding strategies control market risk caused by renewable power output uncertainty?

Based on this assumption, the bidding strategies often focus on effectively controlling the market risk caused by renewable power output uncertainty. In , it was described as a risk if the revenue of a wind farm was less than the target, modeled using chance-constrained programming.

Schematic of the concentrating solar power plant This paper analyzes the energy storage characteristics of the CSP plant and establishes a joint optimal operation and bidding ...

The integration of variable renewable energy sources, i.e. solar PV, in the electricity grid poses challenges to grid operators in maintaining grid stability [3]. Moreover, the ...

The authors of this article led the IEA work on firm power generation and recently released a report on this activity. In this report, firm power generation is defined as the capability for an electricity generating resource to ...

The present electricity market rules require such overseas PV plants to maintain constant power generation during each bidding period. To meet such requirements, energy storage systems (ESSs) are to be deployed in the ...

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