

Smart Bidding and Procurement of Photovoltaic Containerized Units Compared to Generators

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The proposed bidding model of the PV-attached BESS power plant is compared with the other two models, which consider only PV units and only BESSs as strategic market ...

In this paper, we develop a distributionally robust (DR) joint chance-constrained microgrid energy management model while the uncertainties stemming from RESs are ...

A 2023 study revealed that mobile renewable units lowered energy costs by 34% in remote mining sites compared to diesel alternatives. These systems provide uninterrupted power for ...

In this case, a coordinated bidding strategy of VPP involves solar power production, storage unit and conventional generator is presented for the future electricity market.

Considering the output risk of DPV projects, we study the optimal procurement contract design for the buyer under asymmetric information. The results provide some ...

We developed a two-dimensional auction model in which PV generators bid their cost and capacity. The energy buyer then determines the winners and enters into contracts ...

TL;DR: This paper develops an optimal bidding strategy for virtual power plants participating in combined electricity and ancillary services markets, incorporating dynamic demand response ...

evaluating the bidding price and capacity may result in an insufficient procurement of PV energy. Therefore, we design a two-dimensional auction scheme, in which bidders report their ...

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Photovoltaic (PV) and battery energy storage systems (BESSs) are key components in the energy market and crucial contributors to carbon emission reduction target

This study employs multiple metaheuristic techniques, along with MILP for comparison, to analyze the bidding strategies of individual DER units within a VPP across all ...

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