Community-based photovoltaic container hybrid transaction

To determine the double-side auction market spot price, a non-cooperative game is formulated among all participants involved in the community sharing. An iterative algorithm is first ...

Therefore, a day-ahead distributed energy sharing model for community photovoltaic (PV) users is designed by considering the power consumption characteristics of small users and introducing ...

This article proposes a double auction-based mechanism that captures the interaction within a community energy sharing market consisting of distributed solar power ...

Community shared energy storage (CSES) is a solution to alleviate the uncertainty of renewable resources by aggregating excess energy during appropriate periods and ...

A research team led by Washington State University has developed a cloud-based system for trading and sharing energy from solar panels and batteries within a neighbourhood.

Our experiments, conducted on the Hyperledger Fabric blockchain platform using real-world datasets, demonstrate enhanced prediction accuracy compared to existing models. ...

Specifically, the residents can obtain the usufruction of PV capacity on-demand through shares transfer, and energy generated by shared PV can be shared via decentralized peer-to-peer ...

This paper proposes such categorization and discusses different shared PV business models observed in this sector, discussing the main similarities and differences of ...

To address these challenges, this paper introduces an innovative Hybrid Transaction Model (HTM) designed

to optimize DP market mechanisms and refine "grid fee" ...

This study investigates the optimal market trading strategy for community-based photovoltaic (PV) prosumers by leveraging shared energy storage (SES) and controllable loads.

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