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This study introduced and validated a novel framework for improving the climate resilience of Solar-Green Hydrogen Hybrid Systems (SGHHS) through the combined use of ...

This chapter explores the role of blockchain interoperability in addressing these challenges, with a focus on frameworks like BAILIF and cross-chain smart contracts. These ...

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

This study introduced a novel framework for implementing cloud computing in blockchain-based photovoltaic logistic systems and supply chains, recognizing the importance ...

When smart meters, high-speed communication, and blockchain integration are combined to streamline the renewable energy ...

Peer-to-peer (P2P) solar energy trading is made possible by blockchain technology. This ground-breaking instrument allows homeowners to produce, distribute, and ...

When smart meters, high-speed communication, and blockchain integration are combined to streamline the renewable energy market, a technology-driven distributed ...

The main contribution of this paper is to build an energy market model with multiple user participation and explore a hybrid architecture for P2P energy trading, including rational ...

Solar energy harnesses power from the sun through photovoltaic cells, while blockchain serves as a

decentralized digital ledger for transactions. By merging these two ...

To demonstrate the effectiveness and necessity of Proof of Task, it is deployed across three renewable energy power systems. The results show that Proof of Task markedly ...

Blockchain offers solutions to long-standing inefficiencies in traditional energy systems. Blockchain technology is revolutionizing industries, and the energy sector is no exception.

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