

The proposed approach employs blockchain technology to develop a power trading platform, which enables charging station operator to effectively manage distributed power resources ...

Jun 9, 2025&ensp;&#0183;&ensp;Discover how blockchain empowers sustainable energy systems by enhancing transparency, efficiency, and decentralized energy ...

Jan 1, 2022&ensp;&#0183;&ensp;A smart electric vehicle (EV) charging station energy management system (CSMS) based on blockchain technology, which ...

Jan 15, 2022&ensp;&#0183;&ensp;The participants of this trading platform include renewable energy suppliers, distribution networks, hydrogen filling stations and other power consumers. They make ...

Jul 2, 2022&ensp;&#0183;&ensp;Effectiveness of the developed blockchain mechanism is demonstrated on a pilot Virtual Power Plants system comprising distributed energy storage systems, renewables, EV ...

Mar 1, 2021&ensp;&#0183;&ensp;The aim of this work is to provide an up-to-date comprehensive review of the peer-reviewed articles, the research projects and the entrepreneurial efforts that consider the ...

Jan 17, 2024&ensp;&#0183;&ensp;This paper introduces an innovative blockchain-based electricity trading framework. Within this framework, we present a decentralized collaborative model training approach ...

Dec 1, 2020&ensp;&#0183;&ensp;Blockchain, Internet-of-Things (IoT) and artificial intelligence (AI), decarbonisation, decentralisation and digitalisation of energy is more accessible [1] distributed energy ...

Apr 15, 2025&ensp;&#0183;&ensp;The proliferation of distributed energy resources (DERs) and the large-scale electrification of transportation are driving forces behind ...

Mar 15, 2025&ensp;&#0183;&ensp;Let's face it--traditional power grids are about as flexible as a brick wall. Enter distributed modular energy storage power stations, the Swiss Army knives of electricity ...

1 day ago&ensp;&#0183;&ensp;The integration of renewable energy sources (RES) and distributed energy resources (DER) into local energy markets is transforming modern power grids toward a decentralized ...

Jan 1, 2023&ensp;&#0183;&ensp;The usage of blockchain in smart grids could enhance our current and future electric power systems in a variety of ways. The characteristics and operational principles of the ...

Mar 1, 2025&ensp;&#0183;&ensp;The existing blockchain-based EV scheduling methods exhibit several gaps, including a lack of comprehensive coordination among charging stations, insufficient ...

Jul 1, 2023&ensp;&#0183;&ensp;The sustainable energy transition taking place in the 21st century requires a major revamping of the energy sector. Improvements are required not only in terms of the resources ...

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