Analysis of Microgrid Power Trading Model

The primary contribution of this paper lies in the development of a bi-level optimization framework designed to model a retailer"s power trading strategies within the context of multi-microgrids.

In this model, the upper layer focuses on maximizing agent profits through a DN trading model, while the lower layer aims to minimize operator costs through an MG energy optimization ...

Therefore, this paper proposes an efficient and secure blockchain consensus algorithm designed to meet the demands of large-scale microgrid electricity transactions.

This study aims to bridge this gap by proposing a hybrid cooperative and non-cooperative game model that facilitates power scheduling and electricity price trading among microgrids ...

introduces a comparative framework for the double action mechanism. It compares four double-action mechanisms namely (Average, McAfee, Trade Re-duction, and Vickrey-Clarke-Groves) for P2P ...

To improve the trading ability of the power market in the microgrid group, a game algorithm of power trading with microgrids based on a residual regression model is proposed. ...

Based on the available literature, we will concentrate on the development of a microgrid green power trading model and trading strategy study using blockchain technology and a double ...

This paper presents a novel reinforcement learning (RL)-based methodology for optimizing microgrid energy management. Specifically, we propose an RL agent that learns optimal energy trading and ...

In conclusion, this paper proposes a model for transactive energy trading among multi-microgrids within a distribution network. The proposed model addresses the limitations of existing ...

In this paper, a new multi-microgrid energy storage alliance energy trading model based on Nash negotiation is proposed.

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