

Abstract: In this study, a novel two-step optimization model is developed for maximizing the amount of internal power trading in a distribution network comprising several networked microgrids.

To address these challenges, this paper proposes a novel distributed P2P energy trading mechanism based on a hybrid game-theoretic framework. The mechanism aims to enhance market fairness ...

To address these issues, this paper introduces a model for Transactive Energy Trading (TET) among multiple microgrids within a distribution network.

Abstract: Coordinating the microgrids (MGs) in the distribution network is a critical task for the distribution system operator (DSO), which could be achieved by setting prices as incentive signals. The high uncertainty ...

In this framework, an economic optimization based on a dynamic game is designed to ensure the reliability and stability of the DN operation while setting the internal transaction price to minimize the ...

It examines state-of-the-art methodologies for optimizing multi-energy dispatch and scrutinizes contemporary strategies within energy markets that contribute to the resilience of power systems.

At the upper level of decision-making, the optimal pricing strategies for power transactions are determined, accounting for various factors such as market prices, demand response programs, and ...

This paper studies the energy trading problem between multi-micro grids on the distribution side, and proposes a multi-micro grid energy trading method based on Nash bargaining.

In order to realize P2P electricity trading between microgrids, this paper firstly constructs a microgrid operation cost model, optimizes the pre-purchase and sale of electricity with each microgrid, and ...

We also delved into the dynamics of energy trade between microgrids and distribution network operators (DNOs), and the burgeoning peer-to-peer (P2P) trading models that enable direct energy ...

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