Title: Guolo Yushu Microgrid
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Abstract Multi-Energy Microgrids (ME-MGs) represent an integrated and advanced energy system, playing a vital role in delivering optimal and sustainable energy solutions in modern ...

To further enhance the efficiency of solving the economic dispatch model, this study combines chaotic mapping and dynamic opposition-based ...

Using deep reinforcement learning and time-series forecasting models, we optimize microgrid energy dispatch strategies to minimize costs and maximize the utilization of renewable ...

With the growing integration of renewables and increasing system complexity, microgrid communities face significant challenges in real-time energy scheduling and optimization under uncertainty.

In this paper, a microgrid groups with shared hybrid energy storage (MGs-SHESS) operation optimization and cost allocation strategy considering flexible ramping capacity (FRC) is ...

To predict renewable energy sources such as solar power in microgrids more accurately, a hybrid power prediction method is presented in this paper.

The scale of scientific interest in the area of distributed energy systems is clearly focused on microgrids, which are seen as the most versatile and scalable solution. The number of ...

By solving the two-layer model of multi-microgrid and single microgrid, the independent operation of each microgrid is guaranteed, and the decentralized autonomy and centralized coordinated ...

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