

Title: Microgrid Optimization Scheduling Algorithm

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As global attention on renewable and clean energy grows, the research and implementation of microgrids become paramount. This paper delves into the methodology of ...

This paper develops a multi-objective optimization scheduling model for microgrids in grid-connected mode, focusing on operational costs and environmental protection costs, and employs an improved ...

The research results can provide theoretical support and practical reference for efficient scheduling and intelligent optimization of microgrids in the future.

To address the shortcomings of the traditional honey badger algorithm in complex microgrid optimization and scheduling problems, such as slow convergence and susceptibility to ...

By incorporating the non-dominated sorting mechanism into the dung beetle optimization algorithm, the solution set is divided into different tiers. Solutions within each tier ...

Genetic Algorithm generates demand response strategies and optimizes battery dispatch, while LightGBM forecasts solar power generation and building load consumption. The approach aims ...

To achieve efficient and stable microgrid operation, this paper proposes a microgrid cluster optimal scheduling strategy based on an Improved Particle Swarm Optimization (IPSO) algorithm.

In this paper, we propose to improve the global search capability of the DBO algorithm using a spiral position update strategy, adaptive weight factor, levy flight strategy, and t-distribution ...

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