
To address these issues, this paper presents a microgrid scheduling strategy based on the Non--Dominated Sorting Dung Beetle Optimization Algorithm (NSDBO).

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 ...

A multi-strategy Improved Multi-Objective Particle Swarm Algorithm (IMOPSO) method for microgrid operation optimization is proposed for the coordinated optimization problem of microgrid ...

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

More distributed energy resources are being integrated into microgrid systems, making scheduling more complex and challenging. In order to achieve the utilization of renewable energy ...

By using GA to optimize the DQN model, the weights and thresholds of the neural network can be optimized to ensure the accuracy of microgrid cooperative scheduling.

Model Construction: Developed a multi-objective optimization model for grid-connected microgrids incorporating PV, wind power, micro-gas turbines, diesel generators, and batteries, with ...

This paper proposes a dual-time-scale power scheduling strategy based on model predictive control.

As an important part of smart grid optimization, microgrid optimal scheduling is of great significance to reduce energy consumption and environmental pollution.

The microgrid optimization scheduling model proposed in this paper is implemented using the forecasted PV and wind resources and the load requirement of the specific region.

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