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Title: Optimal dispatch of wind solar and energy storage power

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This study proposes a seasonal dispatch optimization model that integrates machine learning and Single-Objective Optimization (SOO) to maximize system benefits while ...

Results demonstrate that the combined deployment of wind generation, battery storage, and adaptive DR significantly reduces microgrid operating costs while enhancing ...

This article fully explores the differences and complementarities of various types of wind-solar-hydro-thermal-storage power sources, a hierarchical environmental and economic ...

The integration of renewable energy into modern power systems requires scheduling strategies that balance economic efficiency with low-carbon objectives. This study develops an ...

To mitigate climate change and reduce greenhouse gas emissions, the decarbonization of the power system is crucial. Utilizing renewable energy for power generat.

In order to alleviate the problem of low proportion of new energy absorption in microgrids and reduce the operating cost of the system, this paper proposes an optimal ...

This study proposes a seasonal dispatch optimization model that integrates machine learning and Single-Objective Optimization (SOO) to maximize system benefits while ensuring efficient ...

Based on the method of Particle Swarm Optimizer (PSO), it was simulated that wind-solar hybrid power joined into the dispatch according to the rules of dispatch system. The ...

Accurate modeling of wind and solar output prediction errors is crucial for enhancing the reliability and

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economy of distribution network scheduling. To address this, this ...

Building upon this foundation, Hyper-dominance Evolutionary Algorithm (HEA)--capable of efficiently solving high-dimensional problems--is introduced for the first ...

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