

To reduce power fluctuations caused by deviations in renewable energy forecasts for both day-ahead and intra-day periods, a two-stage robust optimization scheduling model for ...

With the promotion and large-scale application of microgrids containing high penetration distributed power sources, multiple microgrids are flexibly interconnec

The proposed algorithm introduces several innovative features that significantly enhance its performance in addressing multiobjective optimization problems, particularly in the context of ...

Implementing effective day-ahead scheduling strategies can significantly enhance the economic efficiency and operational stability of microgrid systems.

The global transition to sustainable energy demands efficient integration of renewable resources and resilient operation of microgrids (MGs). This study aims to develop a cost-effective and ...

To exploit the benefits of microgrid system furthermore, this paper firstly proposes a comprehensive day-ahead multi-objective microgrid optimization framework that combines ...

This approach comprises the use of a two-stage stochastic optimization model for day-ahead power scheduling and a real-time model for managing the microgrid system, addressing the ...

With the development of flexible interconnection technology, distribution networks are presenting new patterns. To address the efficient management of microgrid.

In this work, we discuss how to schedule responsive loads and electric vehicles at the same time in a microgrid that utilizes wind and PV electricity to save running costs and pollutants.

Second, at the system operation level, a multi-timescale rolling optimization model is established. During the intra-day scheduling phase, a rolling horizon strategy is utilized to optimize ...

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