2025 Microgrid Dispatch

To fill in the existing research gaps identified above, this paper discusses a two-stage microgrid dispatching framework with an improved ADP to deal with uncertainty of renewable generations and utilize ...

To address these challenges, this paper proposes a two-stage robust microgrid dispatch model with real-time energy sharing and endogenous uncertainty. In the day-ahead stage, the connection/disconnection of ...

This study proposes an advanced day-ahead economic dispatch framework for wind-integrated microgrids, utilizing coordinated energy storage and a hybrid DR strategy.

This paper presents an optimal framework for power dispatch of islanded microgrid (IMG) considering the extra reserve requirements of renewable distributed generations (RDGs).

Driven by the accelerated advancement of microgrid technologies and the surging demand for regional power supply assurance, multi-microgrid (MMG) systems confront significant operational...

This article proposes a coalition game-guided multiagent adversarial safe reinforcement learning (SRL) method to achieve distributed robust dispatch under privacy protection.

The microgrid design platform Xendee and associated MILP solver are used to identify the cost-optimal conditions for microgrid sizing and dispatch with load control.

A microgrid is defined as a collection of interconnected loads and distributed energy sources situated within well-defined electrical boundaries, functioning as a single controllable entity about the grid (Lasseter et al., ...

This paper proposes a comprehensive energy management strategy for renewable-enriched microgrids that simultaneously coordinate the dispatch of electric, thermal, and hydrogen energy vectors.

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