patch of renewable generators may affect the mi-crogrid"s exposure to uncertainty. To address these challenges, this paper proposes a two-stage robu t microgrid dispatch model with real-time energy ...

To solve the robust microgrid dispatch model, we develop an equivalent optimization model to compute the real-time energy sharing equilibrium. Based on this, a projection-based column-and-constraint ...

This study proposes an optimized day-ahead economic dispatch framework for wind-integrated microgrids, combining energy storage systems with a hybrid demand response (DR) ...

As such, this paper presents a distributed ED algorithm based on the alternating direction method of multipliers (ADMM), where a quantization-based encryption and decryption rule is integrated to avoid ...

f a well-designed control architecture to provide efficient and eco-nomic access to electricity. This paper presents the development of a flexible hourly day-ahead power dispatch architecture for distributed ...

This work developed a simulation environment and tertiary controls approach for microgrid economic dispatch and resilience dispatch for grid-connected and islanded operations, respectively.

A substantial body of notable results has been documented in the literature. In this paper, an overview of current trends and techniques in DED algorithms is provided, with a specific focus on these four ...

The simulated and physical microgrid characteristics are described and the hourly dispatch results for generation, storage and load devices are presented, standing out as a reliable ...

This paper proposes a multi-strategy fusion slime mould algorithm (MFSMA) to tackle the microgrid optimal dispatching problem. Traditional swarm intelligence algorithms suffer from slow ...

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