

Recent electrolysis and hydrogen storage technology advancements have created new opportunities for distributed energy utilization in these remote areas. This paper presents a low ...

This article proposes a learning-based decision-making framework for the economic energy dispatch of an islanding microgrid based on the cloud-edge computing architecture. Cloud ...

Microgrids are increasingly becoming popular to improve energy access and increase the resiliency of weakly connected rural networks. The economic operation of these microgrids with renewable ...

In order to analyse the impact of renewable generation and load uncertainties on the economic operation optimization of the island microgrid, a multiobjective economic optimal dispatch ...

Results show that the microgrid consistently satisfies load demand with minimal reliance on costly external grid power. Renewable energy sources are maximized for cost reduction, while ...

Sensitivity analysis is conducted to determine the selection of weighting factors to have the best impact on three developed objectives: grid-connected economics, islanded resilience, and ...

The objective of this paper is to implement the economic dispatch of a microgrid using quadratic programming, considering the active and reactive power capability of the renewable energy...

To address the issues of efficiency and real-time performance in power mutual assistance among island microgrid clusters, a two-stage decentralized dispatching optimization method ...

The objective of this paper is to implement the economic dispatch of a microgrid using quadratic programming, considering the active and reactive power capability of the renewable energy resources.

Compared with the existing real-time dispatching algorithm, the proposed algorithm improves the economic efficiency of islanded microgrids with time-varying power demand.

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