Factors affecting economic dispatch of microgrids

Consequently, distributed ED (i.e. DED) schemes are receiving more research attention because of their high reliability, scalability and uniformity in communication and computation loads. ...

This article proposes an economic dispatch strategy for power systems that considers the priority of multiple types of load responses in response to the challenges posed by the rising ...

Therefore, this paper focuses on the economic and environmental issues of different types of energy scheduling in microgrids, integrates the results of PV power generation prediction, ...

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

In order to address the ED problem (1), several centralized algorithms have been employed. However, as the size of microgrids continues to increase, these kinds of algorithms often exhibit inefficiencies ...

The boundaries between the source and load sides of the distribution network are becoming increasingly blurred, and the matching of power supply and demand is becoming increasingly difficult. Promoting ...

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

Ports are undergoing a rapid low-carbon transformation, and the rising penetration of renewable energy makes efficient scheduling of port microgrids increasingly critical. Existing static ...

The objective of this research is to provide a multi-objective economic operation technique for microgrids containing air-conditioning clusters (ACC) taking demand response into account.

Abstract--This study investigates the economic dispatch and optimal power flow (OPF) for microgrids, focusing on two config-urations: a single-bus islanded microgrid and a three-bus grid-tied microgrid.

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