Factors affecting economic dispatch of microgrids

This article presents an optimized approach to battery sizing and economic dispatch in wind-powered microgrids. The primary focus is on ...

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 ...

This work compares the performance of three optimization methods for solving the economic dispatch problem (EDP) in microgrids with energy storage systems (ESSs).

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 ...

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.

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 ...

Abstract: The economic dispatch problem (EDP) of micro-grids operating in both grid-connected and isolated modes within an energy internet framework is addressed in this paper.

Abstract The consensus algorithm is widely used in the microgrid, but it is affected by the communication of distributed generators. If the communication delay is serious, it can affect the system"s ...

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

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