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Research on economic dispatch of microgrids

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 ...

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. A ...

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. ...

A brief outline of prospective research directions is provided based on the reviewed literature, which includes DED issues with non-convex and multi-objective functions, fast DED algorithms and DED ...

Building upon these foundations, this study develops a bi-level robust optimization model for MMG economic dispatch to optimize the energy management system of microgrids under the ...

An economic dispatch model with the objective of minimizing the total operating cost of the system is also established for the microgrid system consisting of wind power, photovoltaic, micro gas turbine, ...

Flexible on-grid/off-grid microgrids can improve the resilience of distribution grids and achieve autonomous management of distributed energy. The economic disp

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

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

The present study adds significant contributions and innovations in the field of economic dispatch for microgrids, particularly within the context of smart grids and the increasing integration of ...

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