

Oct 20, 2025&ensp;&#0183;&ensp;To the best of our knowledge, no existing research has developed a prediction-free online optimization method for real-time microgrid dispatch that explicitly addresses grid ...

Feb 18, 2025&ensp;&#0183;&ensp;The microgrid configuration analyzed includes renewable energy sources like photovoltaic panels and wind turbines, along with conventional energy sources and battery ...

Jan 15, 2025&ensp;&#0183;&ensp;Secondly, a multi-temporal dispatch optimization model of the microgrid power system, which aims at the economic optimization of the ...

Feb 23, 2024&ensp;&#0183;&ensp;Simulation results demonstrate the superior performance of the MFSMA for function optimization, particularly in solving the 24 h ...

Jan 15, 2025&ensp;&#0183;&ensp;Secondly, a multi-temporal dispatch optimization model of the microgrid power system, which aims at the economic optimization of the system operation cost and the ...

Jun 15, 2021&ensp;&#0183;&ensp;This paper evaluates the design and optimization of an islanded hybrid microgrid for various load dispatch strategies by assessing the optimal sizing of each component, the ...

Sep 21, 2024&ensp;&#0183;&ensp;This review examines critical areas such as reinforcement learning, multi-agent systems, predictive modeling, energy storage, and ...

Jul 4, 2025&ensp;&#0183;&ensp;Abstract--This paper proposes a novel non-anticipatory coordinated dispatch framework for an isolated microgrid with hybrid short- and long-duration energy storage ...

Jan 23, 2025&ensp;&#0183;&ensp;A microgrid (MG) is a modern, small-scale version of a centralized power system. In small communities, it usually consists of distributed generation (DG) units, energy storage ...

Sep 2, 2021&ensp;&#0183;&ensp;The aim of this thesis is to develop a dispatch optimization model for hybrid renewable systems with battery energy storage, maximizing the profits obtained from the ...

Dec 7, 2023&ensp;&#0183;&ensp;This paper presents an improved deep reinforcement learning (DRL) algorithm for solving the optimal dispatch of microgrids under uncertainties. First, a multi-objective interval ...

Oct 20, 2025&ensp;&#0183;&ensp;MICROGRID (MG) enables the integration and coordination of renewable energy sources (RES), energy storage (ES), distributed generator (DG), and load. Due to the diverse ...

Sep 1, 2024&ensp;&#0183;&ensp;In this paper, a real-time optimal scheduling and control strategy for multi-microgrid energy based on storage collaboration is proposed, which regards the energy storage devices

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