

Title: Multiple distributed hybrid microgrids

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This study introduces a novel multi-objective optimization framework for microgrids, integrating hybrid renewable energy sources (PV, WT, FC, MT, DG) and ESS to minimize costs, ...

It explores the integration of hybrid renewable energy sources into a microgrid (MG) and proposes an energy dispatch strategy for MGs operating in both grid-connected and standalone modes.

To cope with the above issues, an XGBoost-embedded multi-agent deep deterministic policy gradient (MADDPG) algorithm is proposed in this paper to address the real-time energy ...

This paper proposes a novel hybrid transformer-interconnected HMG (HT-HMG) and a multimode coordination strategy based on the multiplexing design of a multifunctional converter (MFC). The ...

In this paper, an effective hierarchical distributed model predictive control (HDMPC) method is proposed for a DC microgrid with multiple hybrid energy storage systems.

Matching power transfer between microgrids enables maximum utilization of distributed energy resources, a cluster-oriented cooperative control strategy for multiple AC micro-grid clusters ...

Abstract: The secondary control (SC) of DC Microgrids (MGs) exhibits fast control dynamics as a consequence of low system inertia, leading to substantial communication, networked sensor ...

The proposed strategy aims to achieve multiple control objectives, including power allocation, precise bus voltage regulation, energy balancing of batteries, and proportional power ...

This paper presents a hybrid intelligent energy management framework for interconnected microgrids (MGs), integrating deep neural networks (DNNs), model-free reinforcement learning (RL), ...

A novel enhanced distributed coordinated control framework, based on adaptive event-triggered mechanisms,



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is developed for the efficient management of multiple hybrid energy storage ...

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