

A novel enhanced distributed coordinated control framework, based on adaptive event-triggered mechanisms, is developed for the efficient management of multiple hybrid energy storage ...

Abstract Droop control is an effective power regulation method for islanded microgrids to cope with fluctuations in renewable energy and loads. However, its power coordination performance ...

In this paper, an AC-DC hybrid micro-grid operation topology with distributed new energy and distributed energy storage system access is designed, and on this basis, a coordinated control...

If no suitable control strategy is adopted, the power variation will significantly fluctuate in DC bus voltage and reduce the system's stability. This paper investigates the energy coordination ...

Multiple control objectives are developed, aiming to eliminate DC fluctuation, reduce AC distortion and imbalance, and achieve negative sequence current sharing among distributed ...

Building on methods (1) and (2), a novel multi-VSGs coordinated control strategy is proposed, providing a robust solution for IMG's frequency restoration, and its dynamic characteristics ...

This paper introduces a flexible interlink converter (IC) system for interconnected DC microgrids, designed to ensure stable power transfer across diverse operational scenarios. It ...

Based on information flow and degree of sharing between the controlled entities or sub-microgrids, coordinated control is further divided into three control strategies: distributed, centralized, ...

The state of the art on microgrid operation typically considers a flat and static partition of the power system into microgrids that are coordinated via either centralized or distributed control ...

This article proposes an adaptive coordinated control strategy for the networked AC/DC microgrids (MGs) to enhance the frequency and dc voltage stability of the system while keeping proper power ...

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