

In this paper, the bus voltage layering control method based on droop control is used for DC microgrid coordination control. According to the working characteristics of the DC bus, the voltage of the DC ...

The power system planning and operation has been greatly influenced by the instability of the power output of distributed renewable energy systems such as solar energy and wind energy. ...

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

To address the imbalance in the state of charge (SOC) of distributed energy storage units (DESUs) in DC microgrids (DCMGs), this article proposes an improved droop control strategy.

Experimental validation confirms stable and reliable DC microgrid operation under dynamic threshold control. The algorithm improves power supply reliability, efficiency, and cost ...

In-dependent DC Microgrid (MG) systems now have increasing capacity for producing renewable energy. The main cause is the possibility to generate affordable, environmentally ...

In this paper, a double-quadrant state-of-charge (SoC)-based droop control method for distributed energy storage system is proposed to reach the proper power distribution in autonomous ...

This research article introduces an intelligent distributed collaborative control scheme for managing multiple hybrid energy storage systems (HESS) within the islanded DC MG.

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...

In solving the power distribution problem of energy storage systems in DC microgrids, we propose a structure for the hierarchical distributed control.

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