

Title: Microgrid reactive power optimization

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Numerical tests on an industrial 47-bus microgrid and the residential IEEE 123-bus feeder corroborate the reactive power management efficiency of the novel stochastic scheme over its deterministic ...

Collaborative Active and Reactive Power Optimization for Distribution Networks and Microgrids with Privacy-Preserving Feasible Operation Regions Based on Non-Iterative Projection Method

This paper puts up with a reactive power configuration method, optimizing the operation of shunt capacitor bank (C) and static var generator (SVG). The genetic algorithm (GA) is applied to ...

To address this issue, this paper proposes an active-reactive power coordinated optimization model for distribution network-microgrid clusters ...

To fully exploit the dynamic reactive power voltage regulation capability of renewable energy, a multi-time scale reactive power optimization ...

This paper addresses the optimization of power flow management in a hybrid AC/DC microgrid through an energy management system driven by particle swarm optimization.

Formulation and implementation of a reactive power dispatch methodology to strategically adjust the supply of reactive power from available PV systems within the microgrid.

This paper presents an optimal power flow management (OPFM) optimization approach for managing active and reactive energy in a low-voltage microgrid (MG) connected to the main grid ...

In this paper, a data-driven coordinated active and reactive power optimization method is proposed for distribution networks with multi-microgrids. A multi-agent deep reinforcement learning ...

The proposed strategy enables online self-tuning and self-optimization of virtual impedance, thereby achieving



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precise power decoupling and reactive power sharing under diverse ...

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