

In view of the negative impact on the stable operation of the system caused by the disorderly charging of large-scale electric vehicles connected to the microgrid, an optimization method for ...

Ray P, Mondal P, Mahanta N. Seamless Operation of Microgrid Using PI Controller Based on Artificial Neural Network. In International Symposium on Sustainable Energy and Technological ...

The microgrid power supply will consist of a 150 MW photovoltaic system, 415 MW fuel cells, 508 MW wind farm, and 10 MW geothermal power plant and biomass power plant [9]. The ...

The role of Big Data and IoT in optimizing grid operation and energy consumption 07/17/25, 06:12 AM | Energy Storage, Other Renewables | Smart Grid The energy grid has undergone a radical transformation. There ...

Power system optimisation academics have long been drawn to the idea of scheduling distributed energy resources (DERS) optimally to decrease the generating cost of a low-voltage (LV) ...

Introduces a novel two-stage robust optimization framework for scheduling carbon-free microgrids with decision-dependent uncertainties (DDUs). Proposes dynamically adaptive polyhedral ...

Article Open access Published: 02 July 2025 Flexibility in load demand and PHEV parameters for clean and economic microgrid operation Bishwajit Dey, Srikant Misra & Arnab Pal Scientific ...

This evaluation clearly demonstrates the capability and adaptability of the DQN approach for intelligent and autonomous microgrid management, providing valuable insights into the relative ...

In off-grid or standalone mG, the operation is independent from the utility grid to offer quality supply but requires more investment whereas the grid-connected mG interconnects the utility ...

In general, the model is an advanced microgrid configuration that supports convenient operation of both DC and AC loads and sources, utilizes the available renewable energy to the fullest extent possible, and increases the system ...

Focusing on the latest development of microgrid operation control technology, this paper combs and summarizes the related research at home and abroad, including the key technologies of ...

The proposed IM-POPF framework successfully minimizes total load shedding while maintaining frequency stability under uncertain conditions, providing a computationally efficient solution for ...



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o Demonstrates significant reduction in load shedding, voltage deviation, and improved resilience in islanded microgrid operation. o Provides a practical tool for grid operators to balance cost ...



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