Photovoltaic microgrid dispatching and monitoring

This study proposes a low-carbon robust predictive dispatch strategy for a photovoltaic microgrid in industrial parks, which combines the advantages of robust optimization strategy and ...

In order to maximize the utilization of renewable energy, enhance its utilization efficiency, and reduce the carbon emission of power supply, this paper first proposes a real-time collaborative ...

A novel method is proposed to manage and control reactive power within microgrids with high integration of photovoltaic panels. A proactive dispatch is carried out for a few minutes in ...

This work discusses a novel method for reactive power dispatch in microgrids with photovoltaic integration. It addresses voltage and power issues by optimising reactive power using ...

This study proposes an improved multi-objective particle swarm optimization (IMOPSO) algorithm for coordinated control and ...

The proposed architecture for the development of the EMS for microgrids includes two databases to support each of the four operational modules: electrical, forecasting, monitoring, and ...

This study proposes an improved multi-objective particle swarm optimization (IMOPSO) algorithm for coordinated control and optimizing photovoltaic microgrid dispatch under grid ...

That"s essentially what photovoltaic (PV) microgrid operators face daily - minus the caffeine buzz. Photovoltaic microgrid dispatching and monitoring serves as the critical control center that keeps ...

Abstract: In order to address the impact of the uncertainty and intermittency of a photo-voltaic power generation system on the smooth operation of the power system, a microgrid scheduling model ...

The volatility of distributed photovoltaic (PV) and wind turbine (WT) brings great challenge to the real-time dispatching of microgrid. This work aims at solving the problem via an improved ...

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