Microgrid electricity price adjustment

A comparison was made between the deterministic scheduling model and the two-stage robust optimization model proposed in this study. It was proved that this model has great advantages ...

Firstly, this paper proposes a dynamic restoration electricity price response mechanism after extreme disasters and constructs a power response model for loads and electric vehicles within ...

Despite the challenges posed by renewable energy sources in micro grids, dynamic pricing is essential for real-time energy use. A new effective technique for energy management, ...

For electricity-carbon pricing, a supply - demand ratio (SDR) based pricing strategy is proposed to dynamically update electricity and carbon allowance prices, which fundamentally guides and ...

DRPs can change the pattern of customer consumption as well as the shape of the load curve. In this study, a novel time-based demand response model is proposed to control the slope of ...

This paper addresses the optimal scheduling of low-cost, zero-carbon microgrids by proposing a novel ensemble deep learning-based electricity price prediction algorithm, BiLSTM-Adaboost.

To analyze the total costs of microgrids, the projects in the database were classified according to (1) market segment and (2) microgrid complexity level.

In this paper, a comprehensive energy management framework for microgrids that incorporates price-based demand response programs (DRPs) and leverages an advanced ...

This study focuses on the management and dispatch of energy demand in the electricity microgrid, employing an interval optimization strategy to address electricity price uncertainties.

In this paper, a novel pricing model is presented with the aim of maximizing the utilization of energy generated in the microgrid and reducing the import of energy from the utility grid, whereas ...

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