

Low-carbon microgrid in the park



Overview

In this paper, a low-carbon economic dispatch model of a multi-energy microgrid that uses a joint carbon capture-CHP-P2G operation is proposed. Firstly, the basic structure of the power-electrolysis-methanol energy (PEME) is established. Multi-energy microgrids (MEMs) can achieve efficient and low-carbon energy utilization by relying on the coordination, complementarity, and coupling conversion of different energy sources, which is of great significance for new energy consumption and energy cascade utilization. The study proposes a lifecycle carbon emission measurement model for park microgrids, which includes the calculation of carbon. However, taking the industrial park microgrid with high penetration photovoltaic as an example, due to the uncertainties and fluctuations arising from the meteorological conditions and the load demands, the safe and reliable operation of the microgrid system has been threatened significantly. In this paper, we firstly.

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Low-Carbon Economic Scheduling of a Park Microgrid with Wind, Solar, and Coal-Fired Power Units Based on Carbon Trading Mechanism Publisher: IEEE PDF

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Applications



Intelligent convergence and lean energy management methods and ...

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The research findings provide a theoretical foundation and practical guidance for low-carbon optimization of wind-solar-storage systems in park microgrids.

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