

In this paper, a comprehensive power quality evaluation method of microgrid with dynamic weighting based on CRITIC is proposed. In this paper, the CRITIC method is used to ...

Due to the existence of power electronic equipment and uncertain load in the power generation side and the user side, power quality has gotten a great deal of a

High PQ is crucial for achieving energy efficiency and proper operation of equipment. This comprehensive review paper offers an overview of PQ issues in microgrids, covering various types of ...

Section 3 describes and analyzes the issues and challenges of power quality, which is key for the integration of HMGs, as well as the techniques and devices used to improve power quality ...

The aim of this study is to investigate recent developments in this area and to provide a critical review of methods to mitigate power quality issues in single-phase microgrids.

In terms of reflecting the correlation of power quality indexes and the dynamic changes of microgrid operating conditions, the traditional power quality assessment methods need to be improved. A ...

Comprehensive assessment of advanced MG control strategies, including adaptive droop, model predictive, and fuzzy-PI methods, for robust voltage and frequency stability in grid-connected ...

A comprehensive evaluation of technical and economic aspects has been presented.

Compared with traditional methods, this paper comprehensively reflects the overall PQ status of MG from three aspects by considering index data characteristics, different time scales, and ...

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