

Numerous studies have addressed several MG-related subjects, such as reactive power compensation procedures in MGs, control techniques for enhancing microgrid stability, and MG ...

This paper presents a review of the microgrid concept, classification and control strategies. Besides, various prospective issues and challenges of microgrid implementation are ...

This systematic review, following the PRISMA 2020 methodology, analyzed 66 studies focused on advanced energy storage systems, intelligent control strategies, and optimization ...

This research identifies and classifies six control techniques as the principal conceptual development framework of control modelling for innovative microgrid applications.

This paper presents a systematic literature review encompassing recent advancements in MG technology. It delves into MG architecture, diverse control objectives, associated ...

Key findings highlight the superiority of adaptive and AI-driven controls in handling non-linear and complex microgrid dynamics, though challenges like computational complexity and cybersecurity ...

We explore traditional control methods, such as droop control and Proportional Integral Derivative (PID) controllers, for their simplicity and scalability, but acknowledge their limitations in...

The control and process of microgrids in the occurrence of Hybrid Renewable Energy Sources (HRES) are developed in this research.

Microgrid Controls NLR develops and evaluates microgrid controls at multiple time scales. Our researchers evaluate in-house-developed controls and partner-developed microgrid ...

As a result of continuous technological development, Internet of Things (IoT) architectures and technologies are becoming more and more important to the future smart grid's creation, control, ...

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