

This review has examined the architecture, components, and technological enablers that define modern smart microgrids, alongside a detailed exploration of how AI, and particularly DRL, contributes to ...

This review provides a structured and thematic synthesis of recent advancements in smart microgrid management, focusing specifically on the integration of advanced energy storage systems ...

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

State-of-the-art frameworks and tools are built into innovative grid technologies to model different structures and forms of microgrids and their dynamic behaviors. Smart grids' dynamic models were ...

This comprehensive review has explored the key challenges associated with microgrid architectures, their mitigation approaches, and the potential future directions in this rapidly evolving ...

As our reliance on traditional power grids continues to increase, the risk of blackouts and energy shortages becomes more imminent. However, a microgrid system,

Microgrids are power distribution systems that can operate either in a grid-connected configuration or in an islanded manner, depending on the availability of decentralized power ...

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

This review article (1) explains what a microgrid is, and (2) provides a multi-disciplinary portrait of today's microgrid drivers, real-world applications, challenges, and future prospects.

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