

In this article, a literature review is made on microgrid technology. The studies run on microgrid are classified in the two topics of feasibility and economic studies and control and optimization. The ...

This paper synthesizes recent advancements and applications of DRL algorithms such as Deep Q-Networks (DQN), Deep Deterministic Policy Gradient (DDPG), and Proximal Policy Optimization ...

Smart MicroGrids (SMGs) can be seen as a promising option when it comes to addressing the urgent need for sustainable transition in electric systems from the current fossil fuel-based centralised ...

Governmental initiatives that encourage the establishment of microgrids based on renewables, many of which adapt to distributed applications, have also been prompted by the task to improve the ...

Microgrids are small-scale power grids that operate independently to generate electricity for a localized area, such as a university campus, hospital complex, military base or geographical region.

Microgrids can now be used in remote areas with limited or no energy access. Various organizations, including municipal governments, airports, military bases, nature preserves, and vertical farms, can ...

The aim is to consolidate the latest developments in smart microgrid management, focusing on energy storage technologies, AI-driven control strategies, and secure communication ...

ABB offers a total ev charging solution from compact, high quality AC wall boxes, reliable DC fast charging stations with robust connectivity, to innovative on-demand electric bus charging systems, ...

This review critically examines the integration of Artificial Intelligence (AI) and Deep Reinforcement Learning (DRL) into smart microgrid platforms, focusing on their role in optimizing ...

These grids are based on hybrid renewable energy systems. To make smart grids more reliable, many sources are integrated together. An overview of smart grids is presented with some of ...

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