

highlight this article's research scope and significance. Overall, the existing re-views indicate that the information on MGs is scattered throughout the literature. As a result, identifying the key attributes for ...

Modern research in the field of microgrids has focused on the integration of microgrid technology at the load level. Due to the complexity of protection and control of multiple interconnected distributed ...

Finally, the important aspects of future microgrid research are outlined. This study would help researchers, scientists, and policymakers to get in-depth and systematic knowledge on microgrid.

The paper concludes by summarizing key findings, outlining avenues for future research, and offering a comprehensive perspective on the current state and future directions of MG research.

Ultimately, this research article contributes to the growing knowledge of microgrids and their role in addressing global sustainability issues. It offers practical recommendations for policymakers, industry ...

Future research areas to address the identified issues and challenges have been outlined. The state-of-the-art information of MGs provided in this review would draw attention to the ...

The feasibility, flexibility, and stability challenges in achieving zero-carbon microgrids are discussed, and the corresponding future research prospects are analyzed.

By assessing the current state of microgrid development in Pakistan and drawing lessons from international best practices, our research highlights the unique opportunities microgrids present ...

Thus, this research begins by highlighting these significant obstacles and then analyzes the present-day advances in multilevel control architecture for delivering on promised functionality.

Microgrids have emerged as a key interface for tying the power generated by localized generators based on renewable energy sources to the power grid. The conventional power grids are ...

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