

Energy management techniques within smart grids are crucial for enhancing efficiency, reliability, and sustainability. This article delves into the key techniques that empower smart grids to ...

This comprehensive guide delves into the fundamentals, benefits, challenges, best practices, and future trends of smart grid energy management systems, offering actionable insights ...

In this paper, the authors also discussed the comprehensive review of researchers' efforts and contributions to the smart energy management system in the smart grid. It also compares and...

Smart grid technology refers to a modernized energy infrastructure that uses digital technology to monitor, control, and optimize electricity flow from generation sources to end-users.

In response to the growing need for enhanced energy management in smart grids in sustainable smart cities, this study addresses the critical need for grid stability and efficient integration of renewable ...

In-depth study of smart grids' components and effects on energy management are covered in this chapter along with an examination of its many facets. Advanced Metering ...

To increase the balance between the supply and the demand in an efficient way, and to reduce the peak load during unexpected periods, energy management systems are utilized. Energy management can ...

To overcome these challenges, this paper presents ORA-DL (Optimized Resource Allocation using Deep Learning) an advanced framework that integrates deep learning, Internet of ...

This paper introduces JEMADAR-AI, an approach to energy management within smart grids, leveraging an edge-cloud continuum architecture coupled with Deep Q-Learning to optimize ...

Smart Grids represent a modernized electrical grid that uses advanced technologies to manage energy distribution and consumption efficiently. In this article, we will explore the key ...

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