

Can smart grid improve Iraqi power system?

Iraqi power system. Where the smart grid implementation could provide opportunities to improve the disturbances and so on. Additionally, smart grid could create new investment and job opportunities for Iraqi young people, where about 38% of them are under 15 years old. Hopefully the issues highlighted in this

Does Iraq have a power system?

THE CURRENT REALITY OF IRAQ POWER SYSTEM current and future needs. However, due to wars, as well as the state of political instability in Iraq, the national energy transmission network suffers from severe damages. In this paragraph, review for the most important

Can intelligent technologies improve power systems' stability and control?

This review comprehensively examines the burgeoning field of intelligent techniques to enhance power systems' stability, control, and protection. As global energy demands increase and renewable energy sources become more integrated, maintaining the stability and reliability of both conventional power systems and smart grids is crucial.

How can artificial intelligence improve grid protection?

Incorporating artificial intelligence (AI) into intelligent grid protection not only enhances the dependability of the power supply but also augments the overall safety and sustainability of the energy system.

Are intelligent techniques important for power system research?

Overall, this study shows that intelligent techniques are crucial for power system research and offer a promising avenue for maintaining the feasibility of power system in the future. Future research can be expanded by utilizing intelligent techniques into RESs for optimal energy generation and distribution.

How can intelligent systems improve energy management?

This would involve developing advanced intelligent techniques that can predict and analyze real-time data to ensure an efficient energy management system. Additionally, the integration of intelligent algorithms in controller design may improve the dynamic performance of power systems.

This review describes a cloud-based intelligent power management system that uses analytics as a control signal and processes balance achievement pointer, and describes operator acknowledgments that must be shared quickly, accurately, and safely.

This study presents an outlook on the renewable energies in Iraq, and the potential for deploying concentrated solar power technologies to support power generation in Iraq.

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The paper reviews various intelligent methods used in power system analysis, emphasizing their roles in predictive maintenance, fault detection, real-time control, and monitoring. It details extensive research on the capabilities of AI and ML algorithms to enhance the precision and efficiency of protection systems, showing their effectiveness ...

The unstable security situation in Iraq has had a negative impact on electric power generation, which results in a shortage of supply. Additionally, the newly introduced technologies, the lack of strategic planning, mismanagement, and infrastructure together increase the energy demand in Iraq.

However, to implement a smart grid into the Iraqi power system, various challenges should be faced, especially concerns related to understanding the contents and features of this network...

An automatic generation control (AGC) approach for renewables integrated power systems is proposed in Arya (2019) that incorporates capacitive energy storage (CES) and multi-stage fuzzy assisted PID with filter (FPIDF-(1 + PI)) controller. The approach aims to balance supply and demand response in frequency fluctuations and load disturbances.

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In this study, a clear vision was presented to researchers and engineers who are interested in applying the smart grid in Iraq on this vital topic, which will greatly help in applying this essential matter to develop the work of the Iraqi power system and improve the efficiency and services it ...

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In Iraq, the aging power plants, transmission losses, and inadequate distribution networks have led to inefficiencies in energy supply, contributing to power shortages during peak demand periods. This situation has spurred interest in decentralized energy generation as a means to address these challenges.

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