Micropower wireless communication smart grid

Results from this review will help researchers develop stronger security-based wireless communication systems to meet present and future requirements of modern power grids while advancing sustainable ...

The main objective of this paper is to evaluate the performance of wireless communication technologies in Smart Grid networks, assessing their effectiveness in facilitating real-time data exchange and ...

The invention belongs to the field of smart power grids, and particularly relates to a micro-power wireless communication data transmission device for a smart power grid.

It reviews smart grid communication technologies, their features, relevance, and various roles being played toward delivering an effective electrical service to stakeholders. Hence, this study ...

The wired micro smart grid is based on KQ-330 power line communication, and the wireless micro smart grid is based on Bluetooth, ZigBee and GSM communication methods.

Figure 1 shows several wireless technologies used in smart grid development [1]. Among these, LPWAN (Low-Power Wide-Area Network) are suitable for interoperability of local micro-power grids since the ...

An outline of the architecture for smart grid communications, the definition of sensor network requirements for power line environments, and an overview of specific studies focusing on ...

This study comprehensively reviews various wireless technologies for IoT-enabled Smart Grids that could be integrated into home area networks (HANs), neighborhood area networks ...

In this paper, we provide a comprehensive and up-to-date survey on the communication technologies used in the SG, including the communication requirements, physical layer technologies, network ...

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