

The goal of this document is to demonstrate the foundational dependencies of communication technology to support grid operations while highlighting the need for a systematic approach for ...

Through the incorporation of the communication and measurement technologies within an SG framework, a smart city can optimize its energy infrastructure, diminish its environmental ...

In this paper, the communication technology, architectural design, cutting-edge applications, and protocols of IoT-assisted SG systems are comprehensively reviewed. The main ...

Unlike traditional power grids, which rely on one-way communication, smart grids integrate digital technology to enable real-time monitoring, control, and optimization of energy flow.

Unlike its predecessor (i.e., the existing electrical power grid), smart grid will use two-way data communication technologies to integrate the utility control system with end-users and consumers, so ...

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 ...

In the case of smart grid systems, a communication technology is the tool that provides a mean for exchanging information between different components of the grid like utility, users, smart meters, ...

Currently, the Smart Grid faces challenges in terms of reliability and security in both wired and wireless communication environments. The most important challenge is a lack of ...

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