

Types of communication in smart grid

Smart Grid Communications and Networking. The smart grid will transform the way power is delivered, consumed and accounted for. Adding intelligence through the newly networked grid will increase reliability and power quality, improve responsiveness, increase efficiency and provide a platform for new applications.

The communication layer is important in distinguishing Smart Grids from traditional power grids, and in enabling SG applications. It is divided into three categories classified by geographic area (Wide Area Network, Neighborhood Area Network/Field Area Network, and the Premise Area Network).

Intelligent functions in Smart Grid operation and control, concepts of how to evaluate them. A Smart Grid communication includes Home Area Networks (HANs), Building Area Networks (BANs), Industrial Area Networks (IANs), and Wide Area Network (WAN).

Both types of communication are necessary in smart grid environment. The technology that fits one environment may not be suitable in a different environment. Following is a summary of some of the wired and wireless communication technologies used for smart grids, together with advantages and limitations. 3.3.1.

In contrast to conventional telecommunication standards, the modern communication standards of IoT-assisted smart grid systems need interoperability among interfaces, message and workflows. Interoperability is also necessary for effective business rules, which poses a significant challenge due to the problems associated with multiple vendors ...

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