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Title: Architecture of communication network in microgrid

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This chapter identifies the main networks that might constitute the MGs communication infrastructure. These main components have been identified considering that MGs will belong in the ...

Microgrids (MGs) have gained popularity in various scenarios, such as maritime, space, and terrestrial applications. In all of these scenarios, machine-to-machine (M2M) communication is ...

We review theoretical approaches and practical implementations that consider the effects of the communications network on the general performance of the MG.

The communication infrastructure used in networked microgrid systems usually comprises wireless networks, power line communication (PLC), and cellular networks.

This paper contains a systematic review of the most suitable communication network topologies, technologies and protocols for smart microgrids. It is concluded that a new generation of ...

In this paper, we propose a two-way communication system architecture for smart microgrids based on IEC 61850. Micro-power wireless technology and Ethernet are selected for this communication system.

To meet these requirements, each layer must use different communication equipment and protocols. This chapter provides an insight into communication requirements, system architecture, ...

They achieve this by integrating various distributed energy resources (DERs), such as solar panels, wind turbines, and energy storage systems. Effective communication is the key to the seamless ...

To help designers and researchers to design and implement the communication network of a realistic microgrid, the lessons learned from the PrInCE Lab microgrid will be discussed with the ...

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Finally, a discussion is presented on advanced wireless technology, called LoRa (Long Range), and a modern architecture using the LoRa technology to establish a communication network for ISMs is ...

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