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Title: Smart Microgrid Data Communication Design

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The present study involves the development of a data-driven decision-making strategy based on performance evaluation of various wireless network technology options to optimally select ...

Microgrids are very dynamic structures that need continuous monitoring of their components and surroundings to guarantee an efficient energy management. To accomplish these ...

In this view, this paper first reviews various state-of-the-art developments related to smart grids and then provides extensive insights into communication standards and technologies, issues/challenges, and ...

Abstract: This paper conveys development, validation and performance analysis of a communication network for facilitating bi-directional communication in a microgrid adhering to smart ...

In this paper, a holistic smart grid architectural landscape that clearly separates the power and communication domains to enable "evolving smart grid" engi-neers provide efficient networking ...

This research work presents a smart distribution grid architecture with a network of microgrids and details the need for hybrid communication for intra ...

In this paper, our foremost focus is on the optimal operation of smart buildings assisted by various control and communication technologies. Section II presents a brief review of the development and ...

We focus on centralized management and communication within microgrid and propose corresponding microgrid data communication baseline architecture.

In this paper, a new communication protocol is proposed to allow direct communication between internet of things (IoT)-enabled home energy ...

Smart Microgrid Data Communication Design

This study considers a wireless-based microgrid communication system with cyber-physical components--MGCC, boost converter controller, bidirectional charge controller, and smart ...

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