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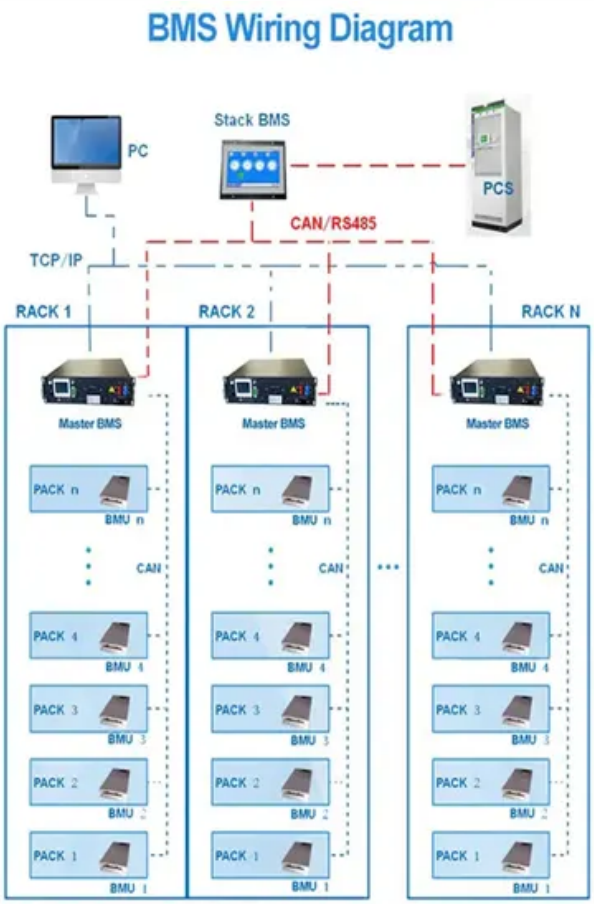

Overview

This paper provides a comprehensive review of the future digitalization of microgrids to meet the increasing energy demand. It begins with an overview of the background of microgrids, including their components and configurations, control and management strategies, and. This work examines the daily bidding problem of a grid-connected microgrid with locally deployed resources for electricity generation, storage and its own electricity demand. Trading electricity in energy markets may offer economic incentives but exposes the microgrid to financial risk caused by. Resilience, efficiency, sustainability, flexibility, security, and reliability are key drivers for microgrid developments. A microgrid is a group of interconnected loads and distributed energy resources that acts as a single controllable entity with respect to the grid.

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