

The objective of this study was to optimize the parameters of BSs and energy-saving methods, providing a deep understanding of how these elements influence energy consumption. This study introduces a ...

This research paper provides an exhaustive analysis of green communication strategies in 5G and next-generation networks, covering energy-efficient technologies, resource management, renewable ...

This study proposes a hybrid quantum-classical two-stage stochastic programming approach for the co-planning of BSs and PVs in urban communities.

To further explore the energy-saving potential of 5 G base stations, this paper proposes an energy-saving operation model for 5 G base stations that incorporates communication caching and ...

An effective method is needed to maximize base station battery utilization and reduce operating costs. In this trend towards next-generation smart and integrated energy-communication-transportation (ECT) ...

One of the most concerning issues in 5G cellular networks is managing the power consumption in the base station (BS). To manage the power consumption in BS, we proposed a hybrid AC/DC Microgrid ...

In today's 5G era, the energy efficiency (EE) of cellular base stations is crucial for sustainable communication. Recognizing this, Mobile Network Operators are actively prioritizing EE for both ...

In the era of widespread 5G adoption and 6G exploration, hybrid telecom power systems, with their advantages of multi-energy complementarity and intelligent management, have become ...

In this paper, hybrid energy utilization was studied for the base station in a 5G network. To minimize AC power usage from the hybrid energy system and minimize solar energy waste, a ...

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