

Sep 25, 2024 With the rapid development of 5G base station construction, significant energy storage is installed to ensure stable communication. ?

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 ?

Aug 1, 2023 An energy consumption optimization strategy of 5G base stations (BSs) considering variable threshold sleep mechanism (ECOS-BS) is proposed, which includes the initial ?

Jun 25, 2024 The energy consumption of 5G networks is one of the pressing concerns in green communications. Recent research is focused towards energy saving techniques of base ?

Jan 22, 2023 Abstract?To achieve the expected 1000x data rates under the exponential growth of traffic demand, a large number of base stations (BS) or access points (AP) will be deployed ?

Jan 1, 2022 5G mobile communication system achieve better network performance while causing a significant increase in energy consumption, which hinders the sustainable ?

Aug 25, 2025 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 ?

Jun 27, 2022 The inner layer optimization considers the energy sharing among the base station microgrids, combines the communication ?

Dec 28, 2024 The number of 5G base stations (BSs) has soared in recent years due to the exponential growth in demand for high data rate mobile communication traffic from various ?

Apr 19, 2024 The popularity of 5G enabled services are gaining momentum across the globe. It is not only about the high data rate offered by the 5G but also its capability to accommodate ?

Mar 31, 2024 With the maturity and large-scale deployment of 5G technology, the proportion of energy consumption of base stations in the smart grid is increasing, and there is an urgent ?

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Oct 17, 2021 This paper proposes a power control algorithm based on energy efficiency, which combines cell breathing technology and base station sleep technology to reduce base station ?

Sep 25, 2024 With the rapid development of 5G base station construction, significant energy storage is installed to ensure stable communication. However, these storage re...

Aug 1, 2025 Within the context of 5G, Ultra-Dense Networks (UDNs) are regarded as an important network deployment strategy, employing a large number of low-power small cells to ?

Nov 13, 2024 A 5G base station is the heart of the fifth-generation mobile network, enabling far higher speeds and lower latency, as well as new levels of connectivity. Referred to as ?

Dec 29, 2024 With the rapid expansion of 5G networks, the number of base stations and their energy consumption have significantly increased, making energy efficiency a critical challenge. ?

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