

Mar 15, 2024 Our research addresses the critical intersection of communication and power systems in the era of advanced information technologies. We highlight the strategic ?

Aug 23, 2019 With the advent of the 5G era, mobile users have higher requirements for network performance, and the expansion of network coverage has become an inevitable trend. ?

Dec 31, 2021 ???: 5G??, ??, ???, ?????, ??? Abstract: The electricity cost of 5G base stations has become a factor hindering the ?

This paper presents some measurements and evaluation of the parameters of the base station for transmitting 5G signals in the network of Makedonski telekom AD Skopje at one location in the ?

Feb 21, 2025 Optimizing energy consumption and aggregating energy storage capacity can alleviate 5G base station (BS) operation cost, ensure power supply reliability, and provide ?

Aug 20, 2021 The 5th generation mobile networks (5G) is in the ascendant. The 5G development needs to deploy millions of 5G base stations, which will become considerable ?

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 ?

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 ?

Dec 31, 2021 Then, it proposed a 5G energy storage charge and discharge scheduling strategy. It also established a model for 5G base station energy storage to participate in coordinated ?

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 ?

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 ?

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Feb 21, 2024 This paper presents some measurements and evaluation of the parameters of the base station for transmitting 5G signals in the network of Makedonski telekom AD Skopje at ?

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, 2025 However, the deployment of numerous small cells results in a linear increase in energy consumption in wireless communication systems. To enhance system efficiency and ?

Jan 17, 2025 With the rapid development of 5G communication technology, global telecom operators are actively advancing 5G network construction. As a core component supporting ?

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

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