

Dec 1, 2024 The reliability and resilience of communication base stations are critical to the post-earthquake performance of the communication system, and consequ?

Jul 1, 2022 However, a significant reduction of ca. 42.8% can be achieved by optimizing the power structure and base station layout strategy and reducing equipment power consumption. ?

Nov 19, 2024 In Xiong'an New Region, China Mobile's low-carbon initiatives like cooling cubes and outdoor base stations are saving hundreds of thousands of kWh annually, making a big ?

Apr 20, 2023 We decomposed the CO₂ footprint of China's 5G networks and assessed the contribution of the number of 5G base stations and mobile data traffic to 5G-induced CO₂ ?

Dec 13, 2023 5G (fifth generation) base station architecture is designed to provide high-speed, low-latency, and massive connectivity to a wide range of devices. The architecture is more ?

Jun 2, 2023 In this paper, we propose a simple logistic method based on two-parameter sets of geology and building structure for the failure prediction of the base stations in post-earthquake.

Oct 25, 2025 In addition, traditionally, ground mobile communication networks and satellite communication networks have been independently developed, constructed and deployed, and ?

Apr 25, 2017 Energy efficiency and renewable energy are the main pillars of sustainability and environmental compatibility. This study presents an overview of sustainable and green cellular ?

1 day ago The company says it has accomplished both without hampering 5G performance. Wireless network base stations have become a significant contributor to emissions. This is ?

Apr 1, 2015 In future 5G mobile communication systems, a number of promising techniques have been proposed to support a three orders of magnitude higher network load compared to what ?

What is a Base Station? A base station is a fixed communication infrastructure that connects mobile devices (such as smartphones, tablets, or IoT devices) to a network, enabling wireless ?

Main ground network of mobile communication green base station

Dec 16, 2020 In recent years, with the rapid deployment of fifth-generation base stations, mobile communication signals are becoming more and more complex. How to identify and classify ?

Oct 28, 2025 In addition, traditionally, ground mobile communication networks and satellite communication networks have been independently developed, constructed and deployed, and ?

Aug 4, 2025 Green network aims to promote the sustainable development of communication systems, and base station (BS) and cells sleeping has been proven effective in reducing the ?

May 4, 2024 In order to increase the contribution of the communication industry to mitigate the global greenhouse effect, future efforts must focus on reducing the carbon emissions ?

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