

Mobile communication green base station safety range





Overview

Can a 5G base station promote green development of mobile communication facilities?

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. Overall, this study provides a clear approach to assess the environmental impact of the 5G base station and will promote the green development of mobile communication facilities.

Are green cellular base stations sustainable?

This study presents an overview of sustainable and green cellular base stations (BSs), which account for most of the energy consumed in cellular networks. We review the architecture of the BS and the power consumption model, and then summarize the trends in green cellular network research over the past decade.

What is the scope of a 5G base station?

Scope: The scope of the entire lifecycle of the 5G base station includes the materials and equipment manufacturing, transportation and operation, which excludes the end-of-life stage. Both a single 5G macro base station and a 5G micro base station are included.

Is 5G suitable for building large-scale macro base stations?

The 5G base station can be roughly divided into a macro base station, a micro base station, and a room subsystem according to the coverage range. The coverage capacity of 5G is much lower compared to 4G due to its high frequency. Thus, 5G is not suitable for building large-scale macro base stations (Zhou, 2017).



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EMF

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Base stations and networks

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