# Ranking of green base stations in various communications



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This upward trend in the market for green base stations for mobile communication is the result of rising energy costs, government policy initiatives and concern for environment.

This paper discusses green base stations in terms of system architecture, base station form, power saving technologies, and green technology applications. It explores effective ways of ...

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.

In this article, a robust RL-based multicells sleeping model called graph deep deterministic policy gradient (GDDPG) is developed for handling highly complex communication scenarios. Besides, we ...

Through these interventions, China Mobile added 467,000 5G base stations while achieving a 2% reduction in overall base station energy consumption in 2024, demonstrating the ...

Overview 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 ...

In order to reduce the carbon emissions of 5G base stations and achieve green 5G, this paper further examines the literature related to existing energy-saving technologies for 5G base ...

In the context of global low-carbon development and rapid development of information and communication infrastructure, the green development of base station site is crucial. Energy ...

Using real-world data from over 49,000 base stations in Anhui Province and extending the model to a national scale, the researchers evaluated three future development scenarios.

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