

China Communications Industry Report Small Base Station





Overview

How many 5G base stations are built in China?

As 5G serves as the foundation for the construction of new infrastructure, China, as the world leader in 5G base station construction, has already built over 1.4 million 5G base stations in 2021 alone. In the same year, 5G base stations in China produced approximately 49.2 million tons of CO₂ eq.

How many telecom base stations are there in China in 2024?

In 2024, the number of telecom base stations in China is expected to increase to 12.65 million. Based on this, we estimate that the total electricity consumption of telecom base stations in China in 2024 will be 146,242.621 GWh.

Do communication base station operations increase electricity consumption in China?

Comparing data from 2021, 2025, and 2030, 41 we found that the electricity consumption due to communication base station operations in China increased annually.

Should China upgrade to low-carbon base stations?

These outcomes demonstrate that upgrading to low-carbon base stations not only ensures economic feasibility but also delivers significant environmental and public health benefits, reinforcing the strategic value of decarbonizing China's communication infrastructure.



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China to construct over 4.5 million 5G base ...

Jan 2, 2025 · China ended 2024 with over 4.19 million 5G base stations China plans to construct over 4.5 million 5G base stations in 2025 while ...

The carbon footprint response to projected base stations of China...

Apr 20, 2023 · We collected 5G base station numbers in 2020 and 2021 in 31 provinces and province-level municipalities (PLM), the period with the rapid growth of the 5G base stations in ...

Low-carbon upgrading to China's communications base stations ...

Sep 1, 2025 · Here we develop a large-scale data-driven framework to quantitatively assess the carbon emissions of 5G mobile networks in China, where over 60% of the global 5G base ...

mobile communication base stations

China's mobile communication base station market is poised for significant growth, driven by the rapid expansion of 5G technology and the ...

Low-Carbon Sustainable Development of 5G Base Stations in China

May 4, 2024 · Therefore, this chapter aims to provide an overview of green 5G base stations, exploring their construction in China, their environmental impact, and the various factors and ...

China sees strong growth in 5G base stations

Dec 5, 2025 · China witnessed substantial growth in the number of 5G base stations this year, according to the latest data from the Ministry of Industry and Information Technology. As of the ...

China to construct over 4.5 million 5G base stations in 2025

Jan 2, 2025 · China ended 2024 with over 4.19 million 5G base stations China plans to construct over 4.5 million 5G base stations in 2025 while introducing additional policy and financial ...

Ambitious 5G base station plan for 2025

Dec 28, 2024 · Technicians from China Mobile check a 5G base station in Tongling, Anhui province. [Photo by Guo Shining/For China Daily] China aims to build over 4.5 million 5G base ...

Global Small Communication Base Station Solution Market Research Report

The Small Communication Base Station Solution market size, estimations, and forecasts are provided in terms of and revenue (\$ millions), considering 2024 as the base year, with history ...

5G Small Base Station Market Size, Share & 2034 Growth Trends Report

Dec 1, 2025 · The 5G Small Base Station Market size is expected to reach USD 12.3 billion in 2030 registering a CAGR of 17.5. This 5G Small Base Station Market research report ...



Low-carbon upgrading to China's communications base stations ...

Nov 21, 2025 · As China rapidly expands its digital infrastructure, the energy consumed by communication base stations has grown dramatically. Traditionally powered by coal ...

mobile communication base stations

China's mobile communication base station market is poised for significant growth, driven by the rapid expansion of 5G technology and the increasing demand for high-speed internet ...

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