

Hetong 5g base station construction





Overview

How many 5G base stations will China build in 2025?

China plans to construct over 4.5 million 5G base stations in 2025 while introducing additional policy and financial incentives to support industries expected to shape the next decade, the country's Ministry of Industry and Information Technology (MIIT) announced during its annual work conference.

What are 5G base stations?

5G base stations are categorized into micro base stations, macro base stations, and indoor sub-systems based on their transmit power and coverage. As 5G operates at a higher frequency than 4G, its coverage capability is lower and the signal penetration is poor, causing significant signal attenuation.

How does a 5G base station consume energy?

In terms of energy consumption, 5G base stations require continuous operation and stability, which leads to significant electricity consumption (Guo et al., 2022a). This power is mainly supplied by transmission equipment and auxiliary equipment, such as transformers, UPS power supplies, and cooling equipment.

What is the system boundary of 5G base station?

The system boundary of the CO₂ of 5G base station The civil construction of 5G base stations is typically carried out using the existing infrastructure of 4G base stations, resulting in less material input during the construction phase. The primary focus on carbon emission generation is during the use phase due to power consumption.



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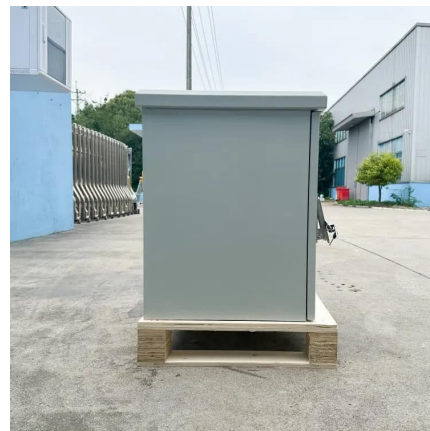
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