

## ContainerPower Energy Solutions

# What are the solar energy standards for China Mobile's base station equipment



## Overview

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Research on low-carbon energy technologies for communication sites: in 2024, China Mobile advanced research on low-carbon energy technologies, updating and refining standards for green and low-carbon sites.

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One key measure to mitigate emissions has been through the development of Green Base Stations, covering: 1. Deployment of new energy-saving technologies: The deployment rate of 5G energy-saving technologies has exceeded 99%. China Mobile is accelerating the large-scale application of 5G extreme.

Abstract: The rapid growth of mobile communication technology and the corresponding significant increase in the number of cellular base stations (BSs) have increased operational expenses (OPEX) for mobile operators, due to increased electricity prices and fossil fuel consumption. Thus, identifying.

In October 2024, IPANDEE, in collaboration with its partners, delivered the first solar-powered, green energy-integrated 5G base stations for Guangdong Mobile. The energy consumption of 5G base stations has been a major concern, primarily due to the high power consumption of CU/DU and AAU.

In order to better serve the coming 5G era, in addition to the large number of base stations and wide coverage, the base stations must have good stability and must ensure uninterrupted power supply 24 hours a day. As the “blood of the base station” power supply system, once a power outage occurs.

By installing solar photovoltaic panels at the base station, the solution converts solar energy into electricity, and then utilizes the energy storage system to store and manage the electricity, ensuring 24-hour uninterrupted power supply for the 5G base station. For the power supply of.

Heat can significantly degrade the performance and operating life of telecom

cabinets, energy storage systems and back-up battery systems. Mobile base station and cell tower equipment . With the swift proliferation of 5G technology, there's been a marked surge in the establishment of 5G.

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