

## Kongres Container

# How many communication base stations in China have hybrid energy

**12.8V 200Ah**



## Overview

---

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.

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.

In 2024, the Company purchased over 3.5 billion kWh of renewable electricity, equivalent to a reduction of over 1.87 million tonnes of CO<sub>2</sub> emissions. The company's own renewable power generation reached 290 million kWh, equivalent to a reduction of 160,000 tonnes of CO<sub>2</sub> emissions. One key measure.

The hybrid energy storage project, titled "Lithium Battery + Supercapacitor Hybrid Energy Storage Key Technology Research and Demonstration", at CHN Energy Ningdong Photovoltaic Base in Ningxia recently achieved grid-connected operation. Developed jointly by CHN Energy New Energy Technology.

As China telecom site energy storage demands surge with 5G rollout, operators face a critical question: How can we ensure uninterrupted connectivity while managing 6.8 million base stations consuming 3-5kW each daily?

The answer lies not in expanding grid dependence, but in reimagining energy.

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 CO<sub>2</sub> eq.

Hybrid inverters are emerging as a smart, future-ready option to meet the unique energy needs of 5G infrastructure. 1. Why Power Stability Matters in

5G 5G base stations are more power-hungry than their 4G predecessors due to higher frequency usage, massive MIMO antennas, and increased data loads.

## How many communication base stations in China have hybrid energy

---

### Contact Us

---

For catalog requests, pricing, or partnerships, please visit:  
<https://drugiswiatowykongrespolakow.pl>