

SolarInnovate Energy Solutions

There are too few 5G base stations for communication



Overview

How many 5G base stations are there in China?

By the end of 1st Half of 2020, the three major Chinese mobile network operators, including China Mobile, China Unicom, and China Telecom, had built more than 250,000 5G base stations in China. This number is projected to reach 600,000 by the end of this year, with network coverage in prefecture-level cities in China.

Why are 5G base stations being powered off every day?

Selected 5G base stations in China are being powered off every day from 21:00 to next day 9:00 to reduce energy consumption and lower electricity bills. 5G base stations are truly large consumers of energy such that electricity bills have become one of the biggest costs for 5G network operators.

Will Huawei build a 5G base station in China?

As a result, Huawei is expected to focus its base station construction this year primarily in domestic China. Total 5G base stations in China are projected to exceed 600,000 in 2020, while Japanese and Korean equipment manufacturers aggressively expand in the overseas markets.

Why do we need a 5G base station?

TrendForce research vice president Kelly Hsieh indicates that, from a technical perspective, the growth in mobile data consumption, low-latency applications (such as self-driving cars, remote surgeries, and smart manufacturing), and large-scale M2M (smart cities) requires an increase in 5G base stations for support.

How much electricity will a 5G base station save a year?

The current 200,000 base stations can save 1.2 billion annually. By the end of this year, 1 million 5G base stations will be built, saving 6 billion in a year. If there are more than 2 million base stations, 12 billion electricity can be saved

a year, which is equivalent to China Unicom's total profit in one year.

Who checks a 5G base station in Xiangyang?

A China Mobile employee checks a 5G base station in Xiangyang, Hubei province. [Photo by Yang Tao/For China Daily] Plan is to establish high-speed, smart, green, safe and digital infrastructure

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