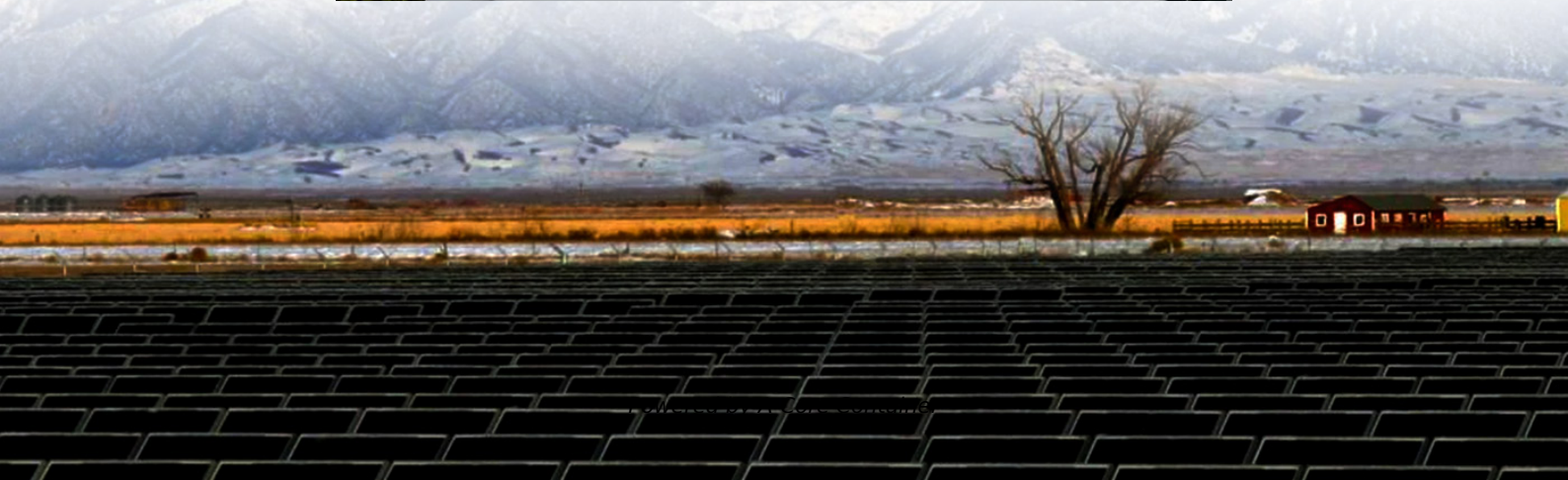


A-Core Container

**Communication response 5G
cannot be used after upgrading
the base station**



Overview

The emergence of fifth-generation (5G) telecommunication would change modern lives, however, 5G network requires a large number of base stations, which may lead to greater carbon emissions. Sin.

Will 5G telecommunication change modern lives?

The emergence of fifth-generation (5G) telecommunication would change modern lives, however, 5G network requires a large number of base stations, which may lead to greater carbon emissions. Since 2020, over 700,000 5G base stations are in operation in China.

Why is 5G more energy efficient than 4G?

Due to the high radio frequency and limited network coverage of 5G base stations, the number of the 5G base stations are 1.4~2 times than that of the 4G base stations, and thus the energy consumption is also 2~3 times higher (Israr et al., 2021).

Do 5G base stations need more base stations?

Consequently, deploying more base stations is necessary for 5G base stations to cover the same area. Macro and micro base stations are currently being deployed for 5G network. The base station is categorized into micro base station, macro base station, and sub-system based on the coverage range.

Can a 5G base station promote green development of mobile communication facilities?

However, a significant reduction of ca. 42.8% can be achieved by optimizing the power structure and base station layout strategy and reducing equipment power consumption. Overall, this study provides a clear approach to assess the environmental impact of the 5G base station and will promote the green development of mobile communication facilities.

Why are micro base stations important in 5G planning?

Micro base stations, on the other hand, are smaller and more flexible, allowing

them to supplement the peripheral communication that cannot be covered by macro stations, thereby improving communication quality and capacity. Therefore, micro stations play a critical role in 5G planning.

Is 5G suitable for building large-scale macro base stations?

The 5G base station can be roughly divided into a macro base station, a micro base station, and a room subsystem according to the coverage range. The coverage capacity of 5G is much lower compared to 4G due to its high frequency. Thus, 5G is not suitable for building large-scale macro base stations (Zhou, 2017).

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