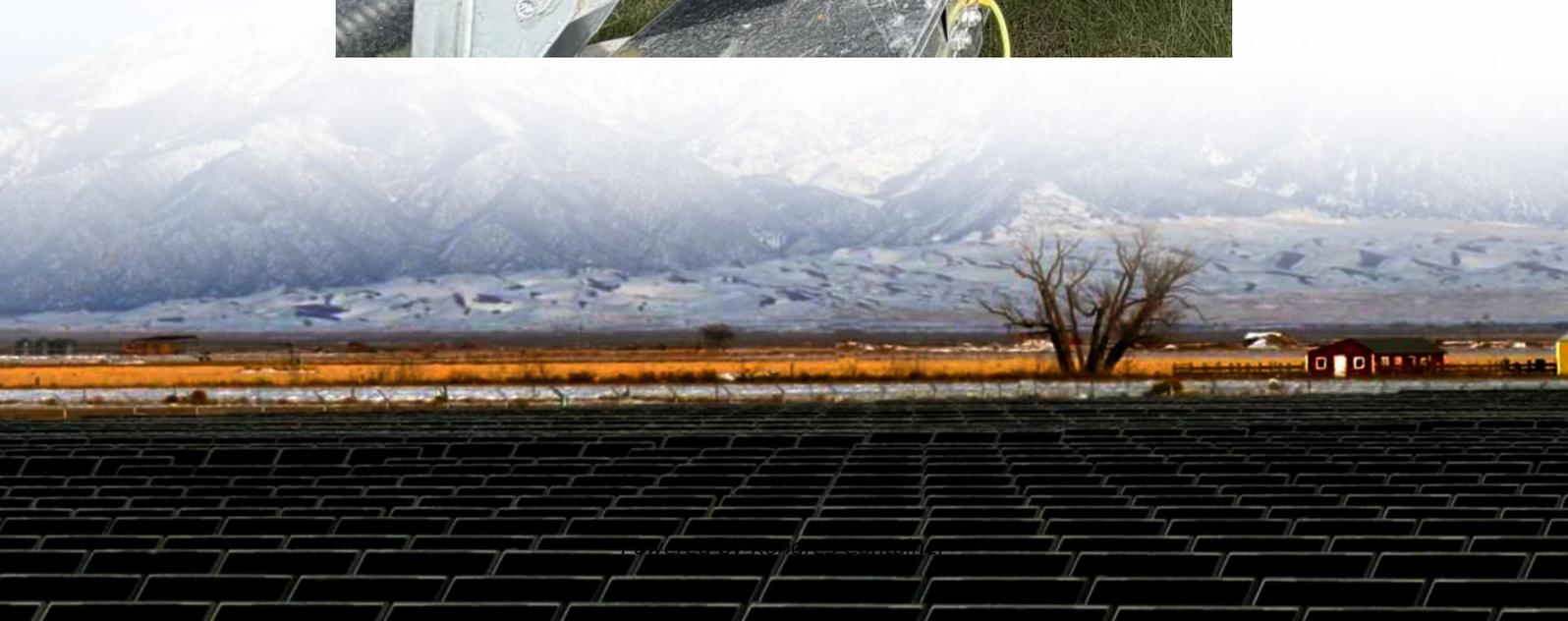
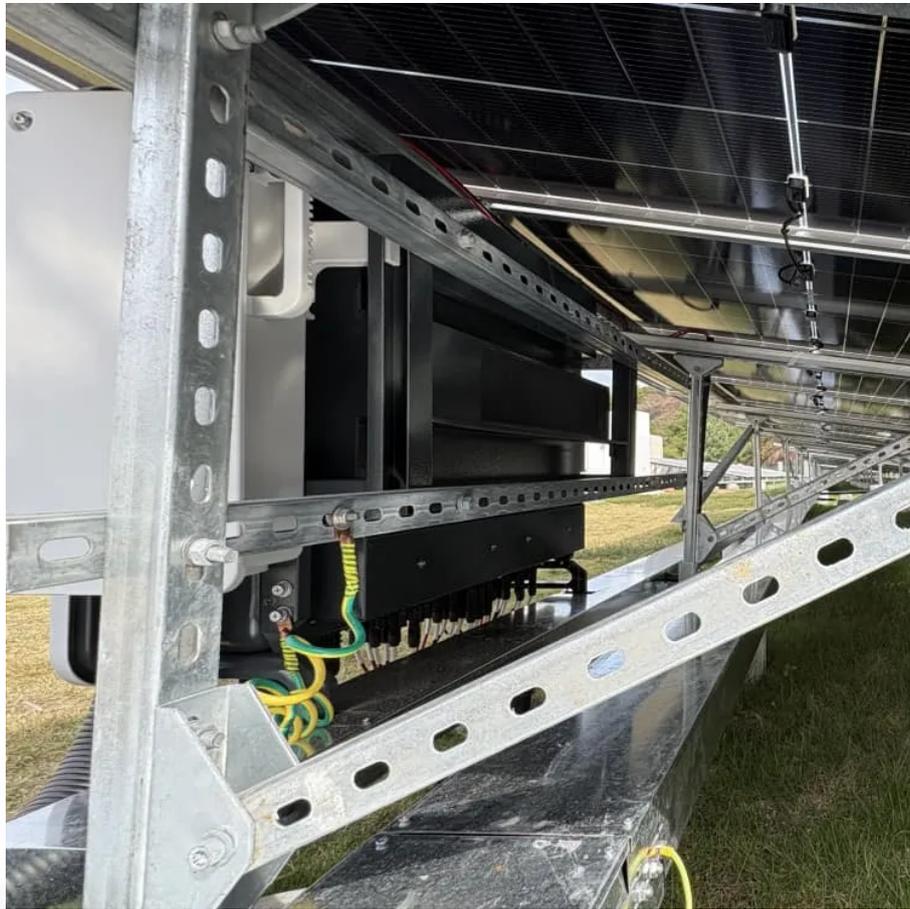


Kongres Container

How many communication base stations are powered



Overview

How much electricity does a communication base station use a year?

In 2021, the annual electricity consumption from communication base stations was 83,525.81 GWh, and it is estimated to rise to 458,495.18 GWh by 2030 (average across three scenarios), with an increase of 448.93% compared with 2021.

How much electricity does a communication base station consume in China?

Based on the actual number of base stations in each province of China in 2021, we calculated the national electricity consumption of communication base stations (methodology detailed in Note S4), which amounted to 83,525.81 GWh (95% confidence interval [CI]: 81,212.38–85,825.86 GWh) for the year (Figures 2 A and 2C).

How many 5G base stations does China have?

China has deployed over 2.4 million 5G base stations as of 2023, accounting for over 60% of the global total. China is leading the 5G revolution. With over 2.4 million base stations, the country accounts for more than 60% of all 5G infrastructure globally.

Why are base stations important in cellular communication?

Base stations are important in cellular communication as they facilitate seamless communication between mobile devices and the network. The demand for efficient data transmission is increased as we are advancing towards new technologies such as 5G and other data-intensive applications.

How many base stations does the United States have?

By comparison, the European Union had around 460,000 thousand base stations, while the United States had approximately 175,000. Get notified via email when this statistic is updated.

How many telecom base stations are there in China in 2024?

In 2024, the number of telecom base stations in China is expected to increase to 12.65 million. Based on this, we estimate that the total electricity consumption of telecom base stations in China in 2024 will be 146,242.621 GWh.

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