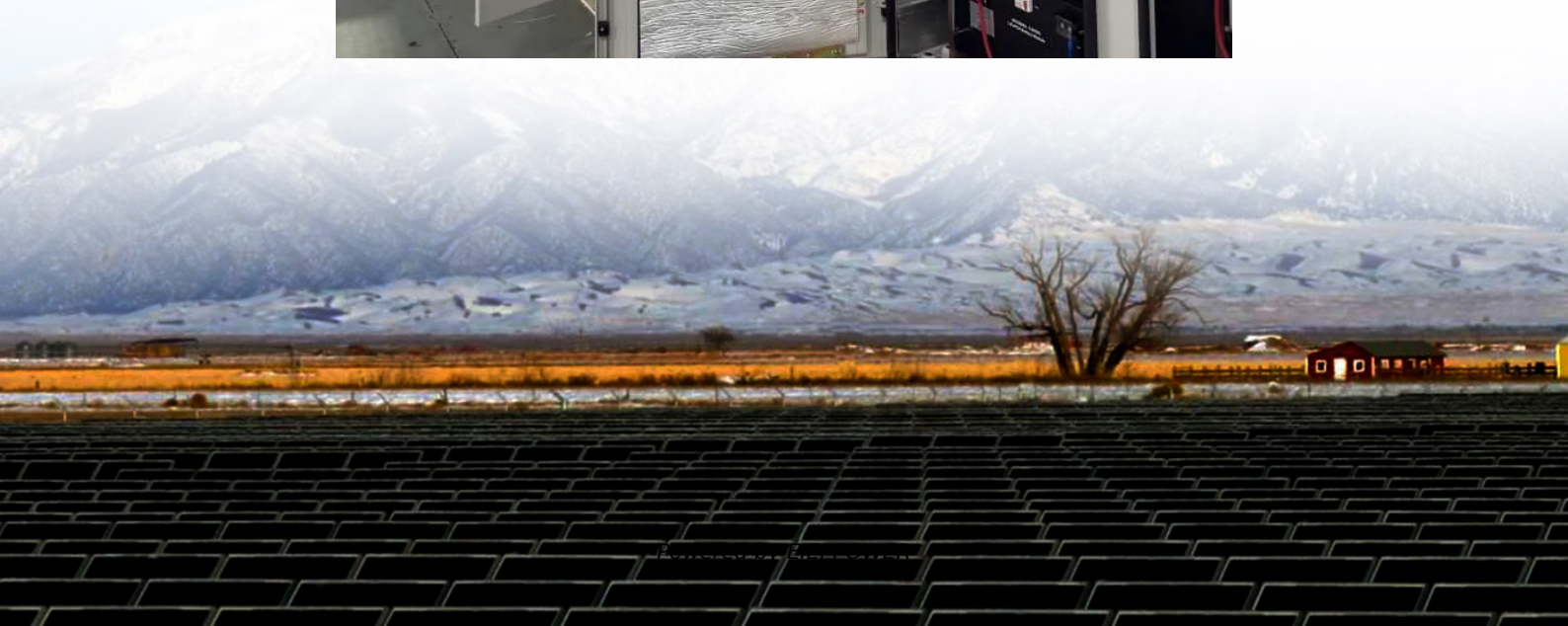


# **Is PCCW s 5G base station construction project reliable**





## Overview

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How many 5G base stations will China build in 2025?

China plans to construct over 4.5 million 5G base stations in 2025 while introducing additional policy and financial incentives to support industries expected to shape the next decade, the country's Ministry of Industry and Information Technology (MIIT) announced during its annual work conference.

How much CO<sub>2</sub> will China's 5G network produce?

Under the model predicted 5G base stations, China's 5G network could yield 0.15–0.29 GtCO<sub>2</sub> /yr emissions subject to the nation's BDDL from 40 to 80 % by 2030. Both 5G base stations and CO<sub>2</sub> emissions are significantly lower than the previous estimates.

Are 5G base stations sustainable?

However, due to their high radio frequency and limited coverage, the construction and operation of 5G base stations can lead to significant energy consumption and greenhouse gas emissions. To address this challenge, scholars have focused on developing sustainable 5G base stations.

Can we predict 5G base stations by 2030?

We linked these provincial base stations with provincial Gross Domestic Product (GDP), population (POP), and big data development level (BDDL) and established a statistical model to predict 5G base stations by 2030. The model predicted 2–5 million 5G base stations by 2030, considerably lower than the business-projected base station number.



## Is PCCW s 5G base station construction project reliable



### (PDF) Evaluating the Comprehensive Performance of 5G Base Station...

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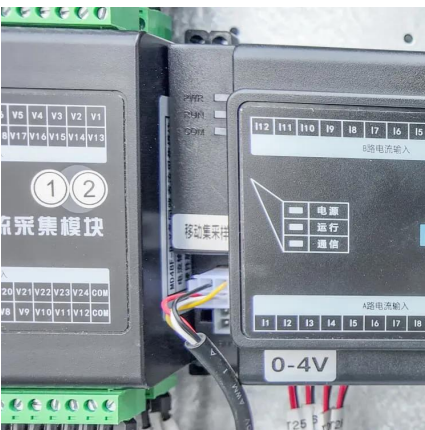
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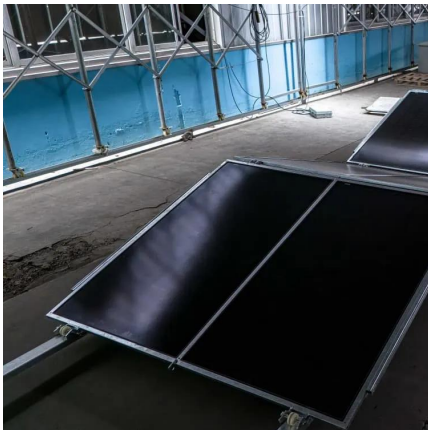
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