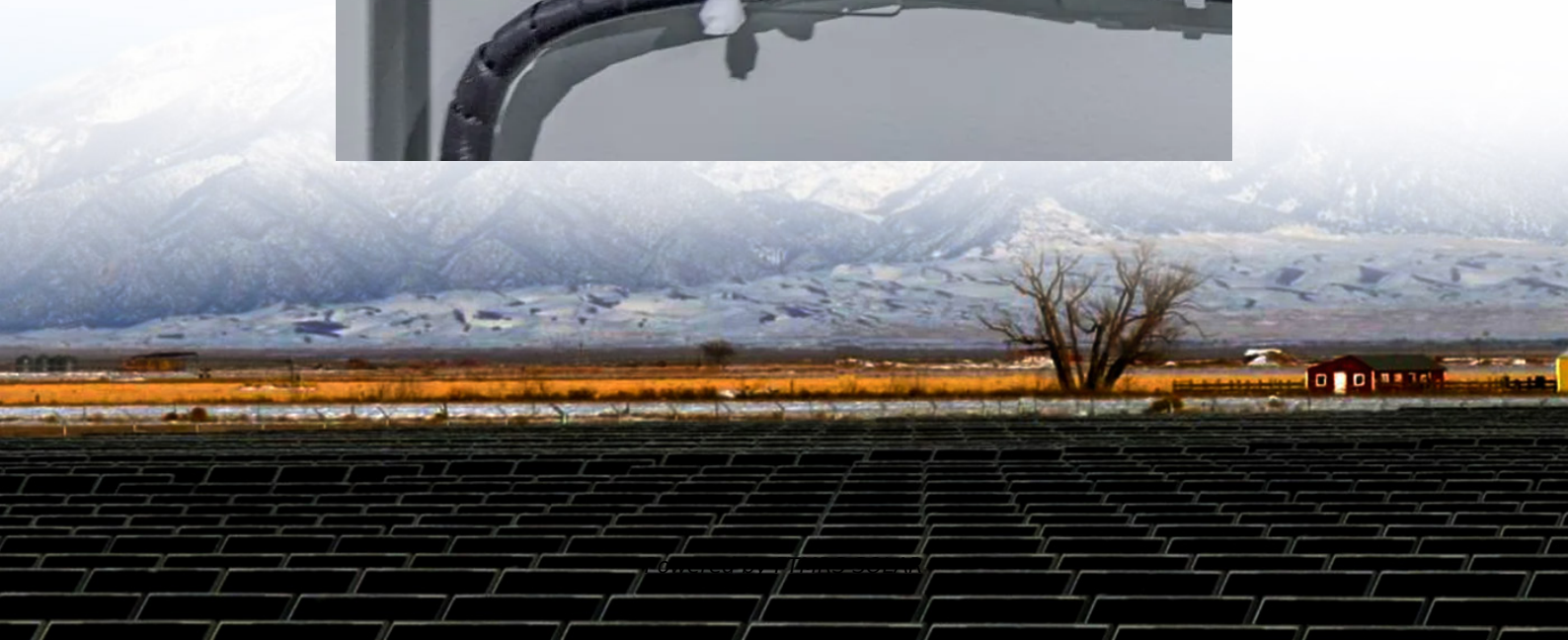


# **Where are the large-scale 5G base stations in Apia New Energy**





## Overview

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How much energy does a 5G base station use?

China Mobile's measurement report<sup>9</sup> indicates that the energy consumption of a 5G base station is 4.3 kWh, which is four times that of a 4G base station at 1.1 kWh. One 5G base station is estimated to produce 30 t of carbon emissions in one year of operation<sup>10</sup>.

Which regions have fewer 5G base stations?

In contrast, the western provincial regions (such as Qinghai and Tibet) have fewer 5G base stations and produce fewer additional carbon emissions. The wealthier eastern provincial regions also have higher additional carbon emissions per unit area than the less developed western areas (Fig. 1f).

How many 5G base stations are there in the United States?

While China leads in sheer numbers, the U.S. is making steady progress. By late 2023, the country had between 150,000 and 200,000 active 5G base stations. The deployment strategy in the U.S. is different from China's, as it relies on private investment rather than government-led initiatives. Is this article too long?

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How many 4G & 5G base stations are there in Nanchang?

The network traffic data were collected from China Mobile. We carried out a city-level measurement in Nanchang and collected fine-grained records on the network traffic of all 4G and 5G base stations for one week in May 2022. The network traffic data cover 12,264 4G base stations and 2,159 5G base stations.



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Shanghai releases action plan to boost 5G-A applications

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