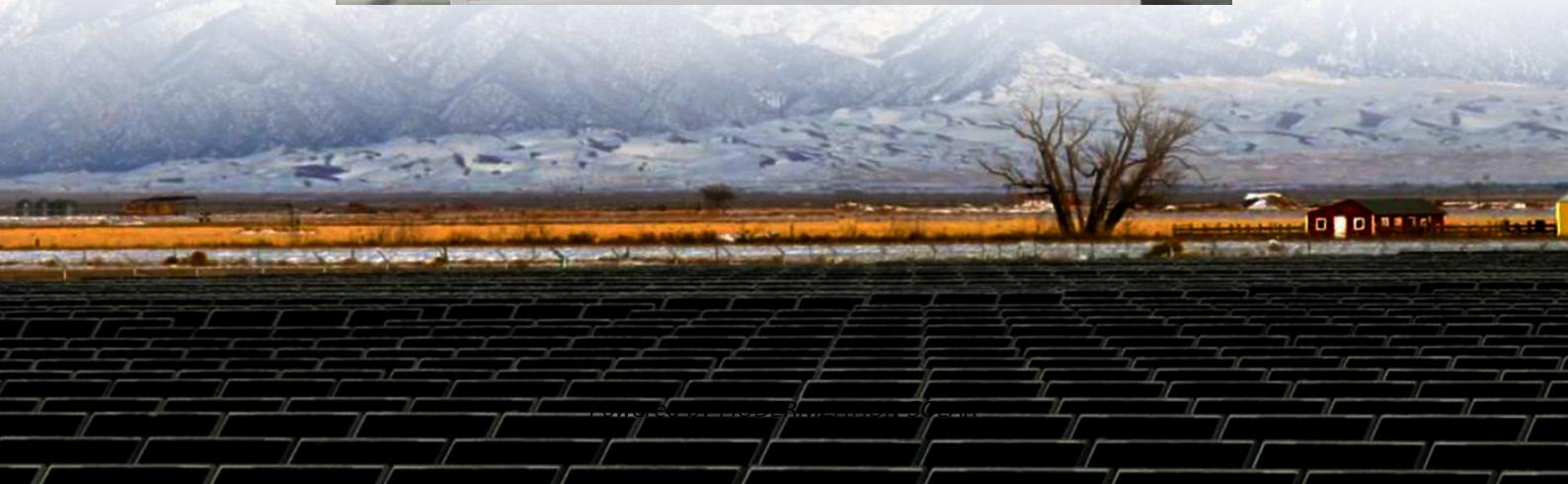




MODERNIZATION SOLAR

# What is the quota for installing 5G base stations in power plants





## Overview

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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.

How many 5G base stations were built in 2020?

Construction of 5G base stations accelerated in 2020 and a total of 718,800 base stations were built, resulting in a sharp increase in carbon emissions. Carbon emissions during the operational phase account for the largest proportion among the other phases of the entire lifecycle.

How many 5G base stations are built in China?

Emission reduction potential and model sharing In 2019, China began to build 5G base stations and has built over 113,000. Construction of 5G base stations accelerated in 2020 and a total of 718,800 base stations were built, resulting in a sharp increase in carbon emissions.

How much power does a 5G base station use?

2.6. Scenario analysis 5G base stations are high-frequency with an average coverage of about 450 m, while the 4G base stations cover an average range of about 1500 m. Taking a 64T64R S111 5G macro station equipment as an example, the power consumption was ca. 3-4 kW, 2-3 times higher than that of 4G equipment (Li, 2019).



## What is the quota for installing 5G base stations in power plants



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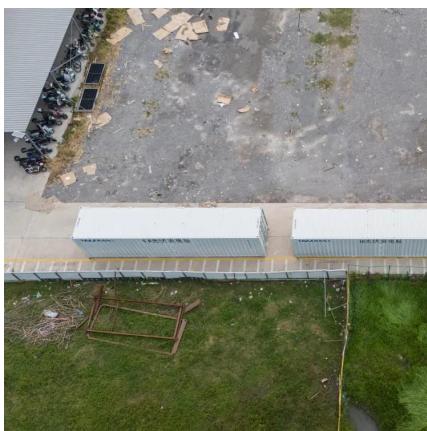


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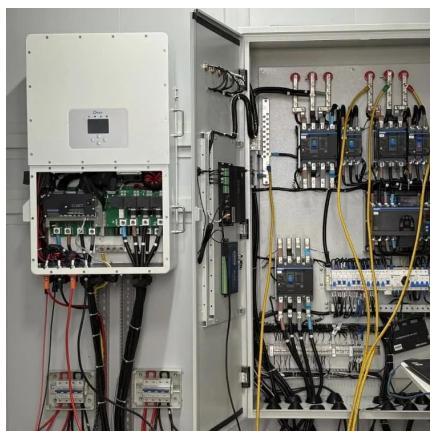
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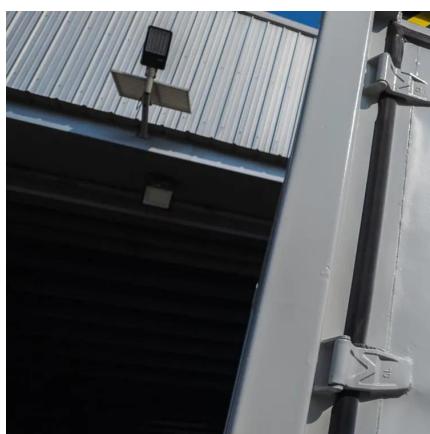
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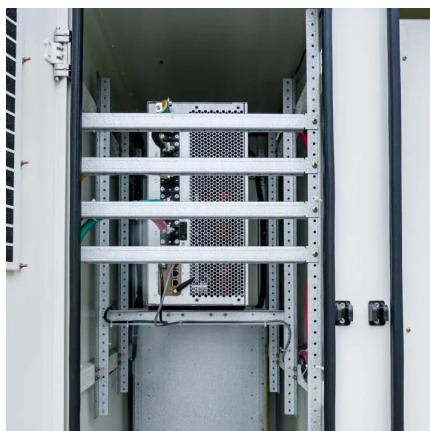
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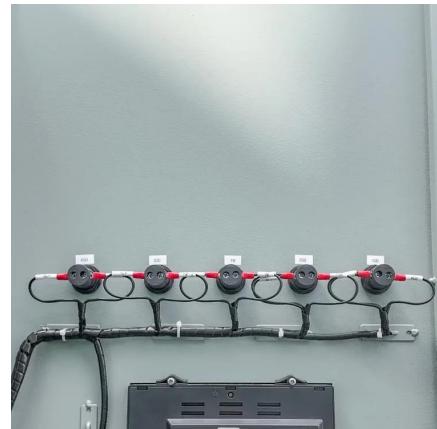
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