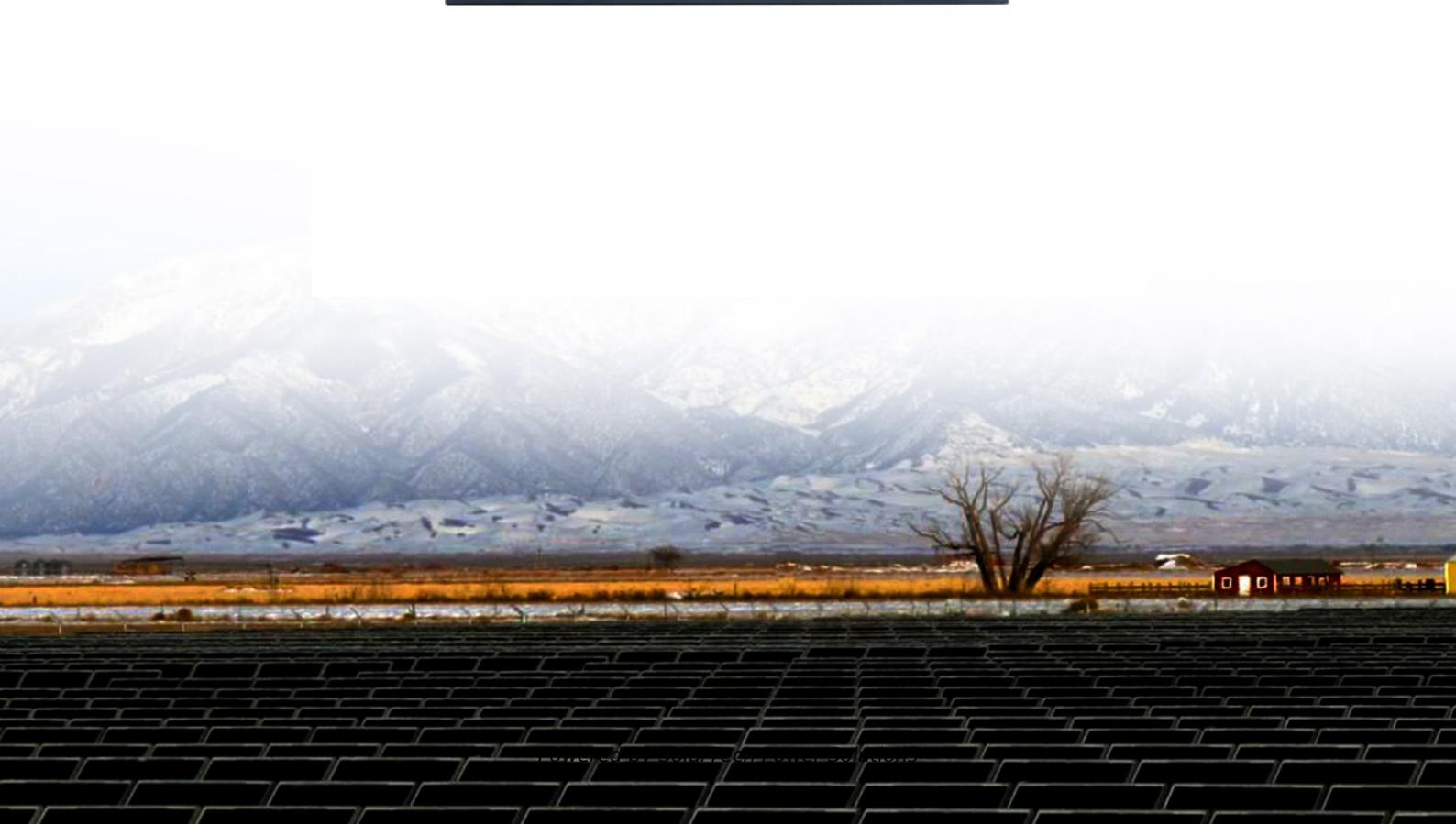




**SolarTech Power Solutions**

# **Taipei Communications 5G base station installation time**



## Overview

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What is 5G ERA in Taiwan?

Taiwan has officially entered 5G era since CHT (Chunghwa Telecom) launched 5G services on June 30, 2020. With the development of 5G/B5G communication technologies, along with large bandwidth, low latency and wide area connections, the applications have become more flexible and diverse.

How many 5G base stations can be built in a 100 MHz band?

For each 100 MHz obtained, the operator shall construct 375 5G base stations, reaching up to 3000 based on the maximum bandwidth allowed in this band. NCC emphasized that cyber security of telecommunications networks has become a more serious issue in recent years.

What are the components of a 5G base station?

Baseband Unit (BBU): Handles baseband signal processing. Remote Radio Unit (RRU): Converts signals to radio frequencies for transmission. Active Antenna Unit (AAU): Integrates RRU and antenna for 5G-era efficiency. 2. Power Supply System This acts as the “blood supply” of the base station, ensuring uninterrupted power. It includes:.

What GHz bands are used for 5G?

Among them, the 3.5 GHz and 28 GHz bands are most frequently used by many countries to launch 5G services, and the development of base stations and terminal equipment (such as mobile phones and tablets) for these bands is relatively mature. NCC also stated the 5G auction will still be conducted through the two-stage bidding process.

What are the radiated power requirements for a mobile communications base station?

The established mobile communications base station shall adhere to the

following standards for radiated powers: 1. Maximum EIRP: 57 dBm. 2. Maximum power density of electromagnetic wave for the utilized band B MHz: (1)  $B < 400$ :  $0.2 \text{ mW}/\text{c}\square$ ; (2)  $400 \leq B \leq 2000$ :  $B^*0.0005 \text{ mW}/\text{c}\square$ ;

What are 5g/b5g vertical applications?

In terms of 5G/B5G vertical applications, CHTTL, equipment suppliers and various industries have cooperated with each other to demonstrate several 5G innovative application services, including the AR (Augmented Reality) tour in National Palace Museum and musicians/singers from different locations playing together in real time at KKBOX concert.

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