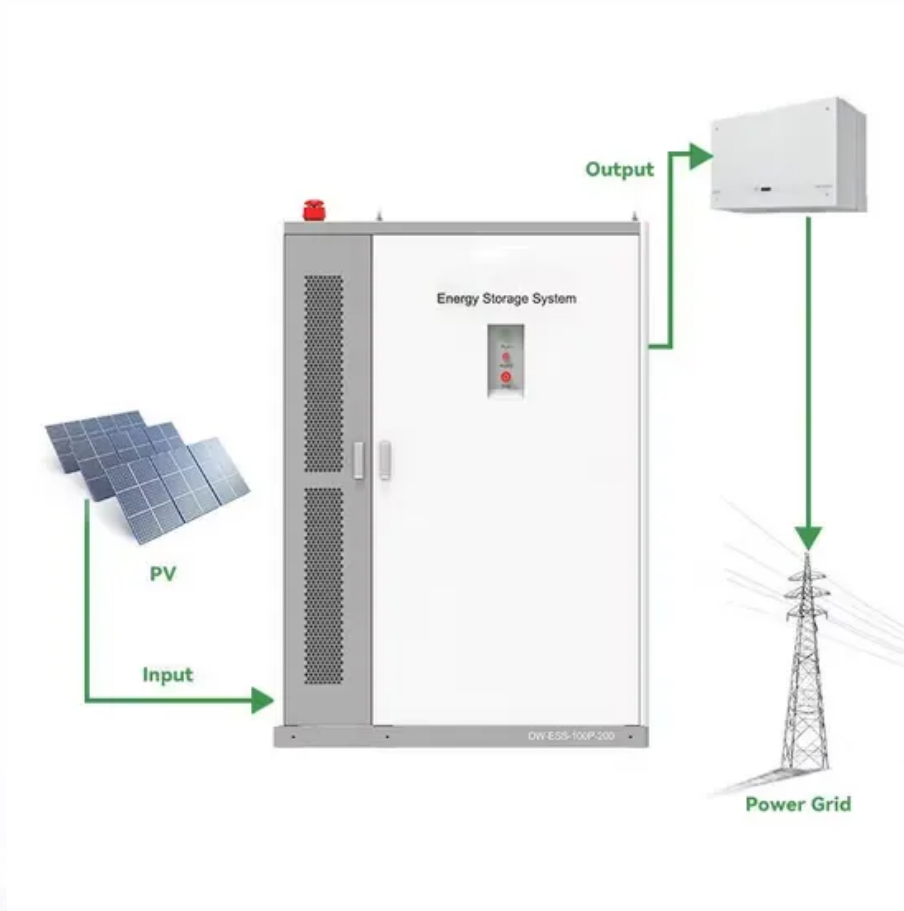


# How many base station sites are there





## Overview

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The number of global 5G base stations exceeded 3 million by the end of 2023. 5G base stations are growing at an extraordinary pace. By the end of 2023, more than 3 million were deployed across the globe. This figure represents a massive increase from just a few hundred thousand in 2019. 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.

What is a cellular base station?

A cell site, cell phone tower, cell base tower, or cellular base station is a cellular-enabled mobile device site where antennas and electronic communications equipment are placed (typically on a radio mast, tower, or other raised structure) to create a cell, or adjacent cells, in a cellular network.

How far can a mobile base station be from a base station?

In addition, some technologies, such as GSM, have an additional absolute maximum range of 35 km (22 mi), which is imposed by technical limitations. CDMA and IDEN have no such limit defined by timing. 5G (FR2) Mobile base station: the distances between the 5G base-station is about 250–300 m, due to the use of millimetre waves.

How many base stations are there in Europe?

By 2023, the continent had around 500,000 active base stations, with countries like Germany, the UK, and France leading the way. Unlike China and the U.S., Europe has emphasized widespread but steady deployment, focusing on balancing urban and rural connectivity. One challenge in Europe is regulatory hurdles.

What is a small cell base station?



Unlike traditional large cell towers, small cells are compact, low-powered base stations designed for dense urban environments. They help fill coverage gaps, improve network reliability, and handle high data traffic. In cities, more than 60% of 5G base stations are small cells, placed on rooftops, lampposts, and building facades.

Why do cities need more base stations than 4G?

In urban environments, this means installing 10 times more base stations per square kilometer compared to 4G. This presents both opportunities and challenges. On one hand, denser networks lead to better speeds and connectivity. On the other hand, deploying this many base stations requires significant investment and regulatory approvals.



## How many base station sites are there

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### [U.S. cell towers and small cells: By the numbers](#)

The firm counted 209,500 macrocell sites in the US at the end of 2022 and defined macrocells as sites covering large geographic regions that are typically mounted on cell ...

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### Starlink Ground Station Locations: Enhancing Connectivity for

As SpaceX continues to launch more satellites, these ground stations are popping up worldwide. For instance, stations in places like Usingen, Aerzen, and Raisting are ...

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### Commercial and Industrial ESS

Air Cooling / Liquid Cooling

- Budget Friendly Solution
- Renewable Energy Integration
- Modular Design for Flexible Expansion



### [How Many 5G and LTE Base Stations are there in China](#)

As of the end of 2020, the total number of mobile communication base stations in China reached 9.31 million. Of these, there are 5.75 million 4G base stations, and more than 718,000 5G base ...

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### List of WAAS reference stations

List of WAAS reference stations Each reference station in the Wide Area Augmentation System includes three GPS antennas. The coordinates of each antenna, along with its elevation, are ...

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### [View All Bases & Installations.. MilitaryINSTALLATIONS](#)

Find information for military bases & installations here. MilitaryINSTALLATIONS includes all of the locations approved by the individual service branches.

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### [Starlink Ground Station Locations \(2025\)](#)

How Many Starlink Ground Station Are There?  
There are currently 150 operational Starlink gateways. Another 13 remain in construction after receiving regulatory approval. Lastly, ...

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### [List Of Marine Corps Bases In The US \(All 17 Major Bases\)](#)

See a list of all 17 major US Marine Corps bases in the United States, including Arizona, California, Florida, Georgia, Hawaii, and North / South Carolina.

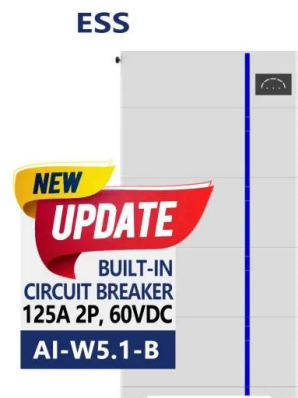
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### [How many Cell Sites and Base Stations Worldwide?](#)

Based on the chart above, there are 7 million physical sites and 10 million logical sites. As there are many sites hosting infrastructure from multiple operators, the number of logical sites are ...

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### **List of Royal Air Force stations**

RAF Cranwell College Hall This list of Royal Air Force stations is an overview of all current stations of the Royal Air Force (RAF) throughout the United Kingdom and overseas. This ...

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### [5G Base Station Growth: How Many Are Active? PatentPC](#)

But how many 5G base stations are actually active worldwide? This article dives deep into the numbers, examining deployment trends, regional growth, and what the future holds for 5G ...

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### [Breaking Down Base Stations - A Guide to Cellular Sites](#)

This is made possible by cellular networks operating through hundreds of thousands of cellular sites, also known as base stations relaying signals through cities and ...

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[Worldwide: 5G base stations in selected markets.](#)  
[Statista](#)

In data collected between July 2022 and June 2024, China was reported to have had around \*\*\* million 5G base stations installed across the country, with Chinese mobile operators ...

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