

# **Vietnam s first hybrid energy 5G base station**





## Overview

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When did Vietnam launch a 5G network?

On October 15, 2024, Vietnam launched its first commercial 5G network led by Viettel, marking a key moment in enhancing connectivity and supporting digital services. Source: Shutterstock/Jamestehart. Vietnam's smartphone usage has surged to 84.4%, surpassing the global average of 63%.

Where is the first 5G base station made?

Back in July of last year, Verizon received the first U.S. manufactured 5G base station from a facility in Texas. Pictured is Verizon's CTO Kyle Malady holding some of the hardware. Image used courtesy of Ericsson.

How fast is Viettel Mobile 5G?

This launch coincides with the 20th anniversary of Viettel Mobile, marking a significant milestone in Vietnam's mobile evolution. The 5G network offers speeds of 700 Mbps to 1 Gbps - up to ten times faster than 4G - with near-zero latency.

What is 5G & how does it work?

5G, known as "the network of networks," integrates existing technologies for real-time connectivity, enhancing safety and security while reducing greenhouse gas emissions through improved energy efficiency and less travel. On October 15, Viettel officially launched Vietnam's first 5G network, just six months after receiving its frequency license.

Will 5G be commercialized in Vietnam?

According to the Ministry of Information and Communications, 4G coverage in Vietnam is currently 99.8%, higher than even developed countries with high incomes with only 99.4%. This is a step forward for 5G to be commercialized in Vietnam just a few months ago in October. Source: Vatvostudio.



## Will 5G boost Vietnam's GDP growth by 2025?

In Vietnam, projections indicate that 5G technology could contribute approximately 7.34% to GDP growth by 2025, significantly enhancing productivity across various industries. Moreover, an Ericsson study suggests that 5G could boost GDP growth by 0.3% to 0.46% by 2035, with a cost-to-benefit ratio of three to seven times the initial investment.



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### **Viettel Launches Vietnam's First 5G Network and Celebrates 20 ...**

On October 15, 2024, in Hanoi, Viettel Group officially launched the country's first 5G network. This event marks the 20th anniversary of its mobile service business and commemorates the ...

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### **Evaluating the Comprehensive Performance of 5G Base Station: A Hybrid**

In recent years, 5G technology has rapidly developed, which is widely used in medical, transportation, energy, and other fields. As the core equipment of the 5G network, 5G ...

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### **Cooperative game-based solution for power system dynamic ...**

The uncertainty of renewable energy necessitates reliable demand response (DR) resources for power system auxiliary regulation. Meanwhile, the widespread deployment of ...

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### **Energy Efficient Thermal Management of 5G Base Station Site ...**

The rapid development of Fifth Generation (5G) mobile communication system has resulted in a significant increase in energy consumption. Even



with all the efforts made in terms of network ...

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### 5G Base Station Solar Photovoltaic Energy Storage Integration ...

The 5G base station solar PV energy storage integration solution combines solar PV power generation with energy storage system to provide green, efficient and stable power ...

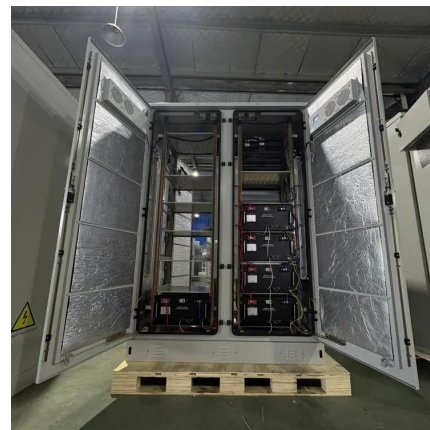
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### How Vietnam's military-built Viettel became a global tech player

1 day ago · How Vietnam's military built one of the hottest tech companies in Southeast Asia  
Over two decades, Viettel grew from a state telco into a tech powerhouse that makes everything ...

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### Energy-efficient indoor hybrid deployment strategy for 5G mobile ...

In the context of 5th-generation (5G) mobile communication technology, deploying indoor small-cell base stations (SBS) to serve visitors has become common. However, indoor ...

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### **Final draft of deliverable D.WG3-02-Smart Energy Saving of ...**

Change Log This document contains Version 1.0 of the ITU-T Technical Report on "Smart Energy Saving of 5G Base Station: Based on AI and other emerging technologies to forecast and ...

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### **Viettel Launches Vietnam's First 5G Network and Celebrates 20 ...**

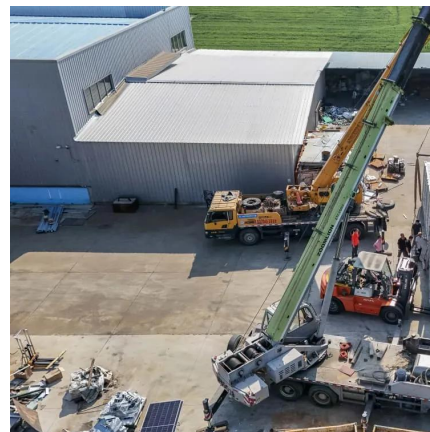
Launched just six months after obtaining a frequency license for 2,600 MHz, the Viettel 5G network now has over 6,500 BTS stations, covering all 63 provincial capitals, as well as ...

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### **Day-ahead collaborative regulation method for 5G base stations ...**

Optimizing energy consumption and aggregating energy storage capacity can alleviate 5G base station (BS) operation cost, ensure power supply reliability, and provide ...

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### **Vietnam telecom giants step up 5G commercialisation, expansion**

Tao Duc Thang, chairman and general director of Viettel, said the company aims to install 20,000 5G base transceiver stations (BTS) this year, a move expected to boost current ...

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### [Vietnam's 5G Base Stations are ready for India](#)

Currently, Viettel High Tech's 5G radio base stations range from low to high power types and are ready for telecom carriers to deploy. At present, Viettel High Tech's base transceiver stations ...

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### [Viettel claims Vietnam's first commercial 5G service](#)

Viettel said it has installed over 6,500 base stations to provide 5G services to all 63 localities in Vietnam, focusing in particular on tourism sites, seaports, airports, industrial parks, ...

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