

How much is the electricity cost for 5G base stations in Ukraine

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Generated on: 2026-03-05 20:15:09

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How much does a 5G base station cost?

Setting up a 5G base station is expensive, with costs ranging from \$100,000 to \$200,000 per site. This price includes hardware, installation, site rental, and maintenance. Urban areas often have higher costs due to land prices and infrastructure challenges.

Is 5G available in Ukraine?

As 5G is not yet available for general use in Ukraine, no particular actions have been taken to ensure access. Prior to the introduction of martial law, several 5G testing points (labs) had been launched in 2021 in cooperation with telecom companies.

Is Russia stalling Ukraine's 5G plans?

While many operators across Europe have focused on launching 5G networks, the same can't be said for Ukraine. Speaking to DCD, Stanislav Prybytko, director general of the directorate for mobile broadband for Ukraine's Ministry of Digital Transformation, explains that the war with Russia has stalled the country's 5G goals.

How many base stations are there in Ukraine?

"We've had more than 10 percent of our sites completely or partially destroyed," explains Sasha Ananyev, head of the network operation department at Vodafone Ukraine. That's roughly 1,400 base stations, and does not include base stations located in Donetsk and Luhansk, areas that have been occupied by Russia since 2014.

Explore an expert guide on 5G regulation and law in Ukraine. Learn about deployment challenges, war impacts, and future plans. Discover insights now!

These retail prices were collected in June 2025 and include the cost of power, distribution and transmission, and all taxes and fees. Compare Ukraine with 150 other countries.

According to industry insiders' estimates, 100,000 5G base stations require at least 2 billion yuan in electricity

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In the two and a half years since Russia invaded Ukraine, Ukraine's energy system has been a regular target, with attacks on thermal and hydro assets, substations, and solar units.

All data is processed within the Vodafone Ukraine perimeter, for which the company has installed additional servers. In the first month of using PowerStar 2.0 at over ...

Vodafone estimates that it can cost between \$60,000 to \$70,000 if a site is completely damaged. When it is still salvageable, the company believes it spends an average ...

In late 2024 Digital Transformation Minister Mykhailo Fedorov announced a two-year 5G pilot in three cities--Lviv first, with Kyiv and Odesa testing through 2025--as a step ...

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