

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





Overview

What is the electricity price in Ukraine?

The residential electricity price in Ukraine is UAH 4.320 per kWh or USD 0.103. The electricity price for businesses is UAH 7.410 kWh or USD 0.176. These retail prices were collected in March 2025 and include the cost of power, distribution and transmission, and all taxes and fees. Compare Ukraine with 150 other countries.

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.

Will 5g-era mobile networks require more energy?

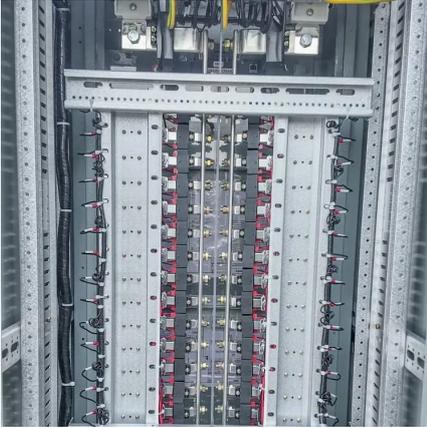
High performing 5G-era mobile networks (including legacy 2G, 3G and 4G networks, as well as new 5G rollouts) will require even more energy - up to 140% more in some deployment scenarios (see section 4). Three factors will drive a significant increase in 5G-era power consumption:-.

How much does 5G infrastructure cost?

The total cost of 5G infrastructure is staggering, with projections estimating that telecom companies will spend over \$2 trillion globally by 2030. This includes investments in spectrum, network densification, fiber backhaul, energy-efficient infrastructure, and emerging technologies such as AI and automation.



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[5G-era Mobile Network Cost Evolution](#)

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