Price of electricity for 5G base stations in Kinshasa

Overview

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.

What is the electricity price in Democratic Republic of the Congo?

The residential electricity price in Democratic Republic of the Congo is CDF 166.611 per kWh or USD 0.057. The electricity price for businesses is CDF 194.400 kWh or USD 0.067. These retail prices were collected in September 2024 and include the cost of power, distribution and transmission, and all taxes and fees.

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.

How much does SA 5G cost?

However, transitioning from non-standalone (NSA) 5G to SA 5G comes with a hefty price tag—between $1 billion and $3 billion per operator. Unlike NSA 5G, which relies on existing 4G infrastructure, SA 5G requires a brand-new core network. This includes cloud-based architecture, advanced data centers, and software-defined networking.

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