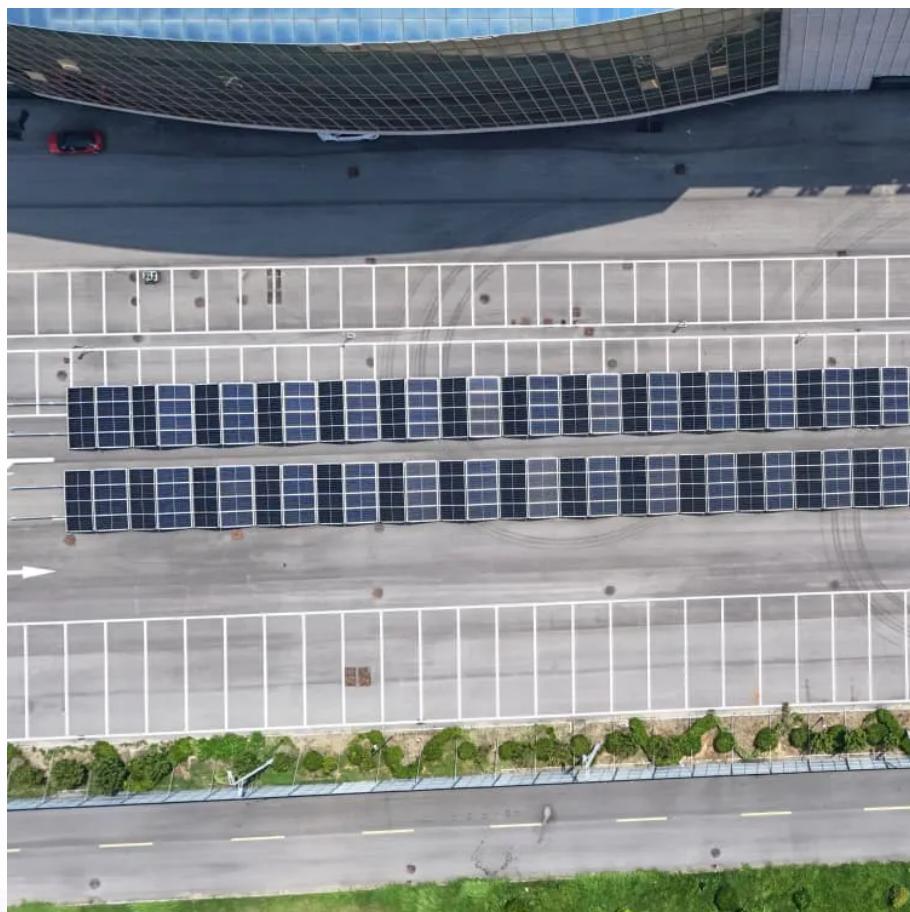




BUHLE POWER

Electricity cost of a 5G micro base station





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.

Are 5G base stations causing more energy consumption?

However, Li says 5G base stations are carrying five times the traffic as when equipped with only 4G, pushing up power consumption. The carrier is seeking subsidies from the Chinese government to help with the increased energy usage.

Does China Mobile have a 5G base station?

China Mobile has tried using lower cost deployments of MIMO antennas, specifically 32T32R and sometimes 8T8R rather than 64T64R, according to MTN. However, Li says 5G base stations are carrying five times the traffic as when equipped with only 4G, pushing up power consumption.

Will 5G power micro data centers?

“Schneider Electric predicts that with 5G, the power distribution will require hundreds of thousands or even millions of micro data centers globally,” according to MTN. “Powering these sites will add to the telco utility bill and add a layer of complexity to network operations as edge power costs need to be minimized.”



Electricity cost of a 5G micro base station



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