

# Why is the electricity fee of 5g base stations too high

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How much power does a 5G base station use?

"A 5G base station is generally expected to consume roughly three times as much power as a 4G base station. And more 5G base stations are needed to cover the same area," -IEEE Spectrum, 5G's Waveform Is a Battery Vampire

Will 5G consume a lot of energy?

"A lurking threat behind the promise of 5G delivering up to 1,000 times as much data as today's networks is that 5G could also consume up to 1,000 times as much energy," Dexter Johnson in the IEEE Spectrum. Why?

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 MIMO increase the energy consumption of 5G base stations?

As a result, there are many more hardware components per base station. Johnson believes this will probably increase the total energy consumption of 5G base stations compared to 4G. But as massive MIMO technology develops, its energy efficiency may also improve over time.

As 5G developers look desperately for a "killer app" to prove the usefulness of the superfast wireless technology, mobile carriers in China are complaining about the high energy cost of ...

A lurking threat behind the promise of 5G delivering up to ...

5G base stations use high power consumption and high RF signals, which require more signal processing for digital and electromechanical units, and also put greater pressure ...

The rapid increase in data centers, which use electricity to power computer servers and keep them cool, has strained many utilities.

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