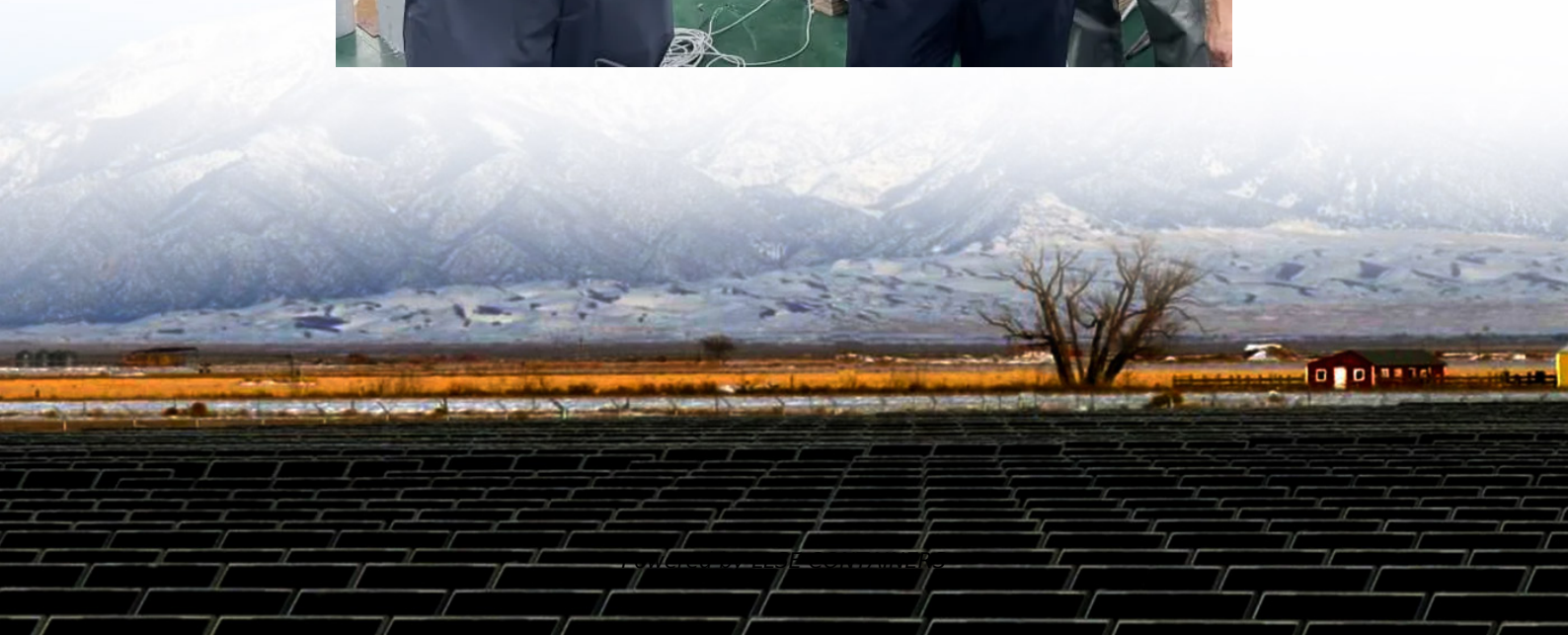


# **Do 5G base stations require electricity**





## Overview

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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.

How will 4G & 5G networks work?

In both 4G and future 5G networks, operators will probably run their base stations so they transmit at the maximum power allowed by their licenses, in order to maximize the coverage, according to Björnson.

Will MIMO increase the energy consumption of 5G base stations?

As a result, there are many more hardware components per base station. Björnson 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.



## Do 5G base stations require electricity

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### [Energy Management of Base Station in 5G and B5G: Revisited](#)

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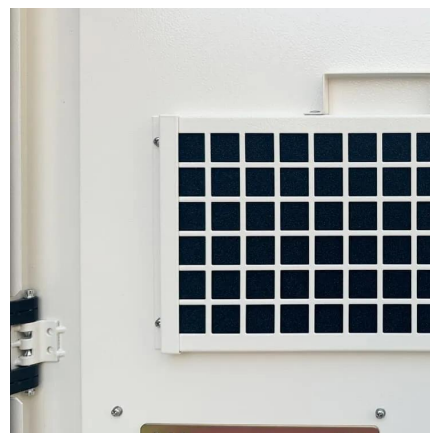
### 5G base stations use a lot more energy than 4G base stations...

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