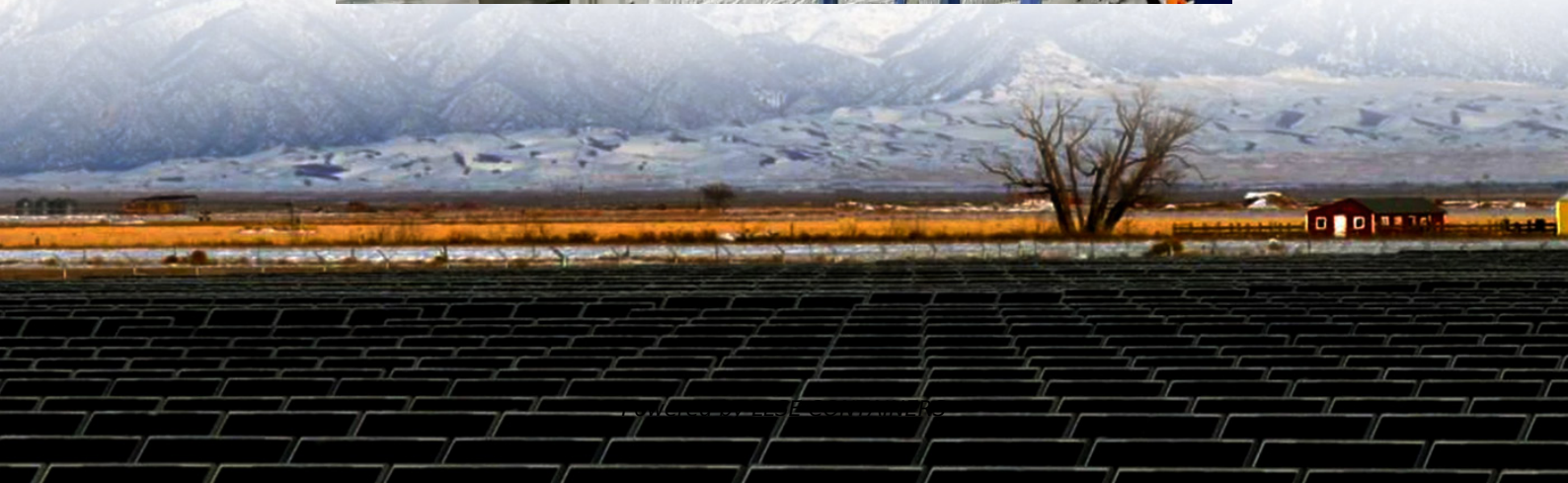


# Foreign media commented on whether 5G base stations consume electricity





## Overview

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How much power will a 5G base station use in 2025?

The Small Cell Forum predicts the installed base of small cells to reach 70.2 million in 2025 and the total installed base of 5G or multimode small cells in 2025 to be 13.1 million. "A 5G base station is generally expected to consume roughly three times as much power as a 4G base station.

Does 5G affect energy use?

The researchers did a literature review to examine whole network level assessments of the operational energy use implications of 5G, the embodied energy use associated with 5G, and indirect energy use effects associated with 5G-driven changes in user behaviour and patterns of consumption and production in other sectors of the economy.

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.

How much power does a 5G base station consume?

That's almost a threefold increase compared to 4G (5). One 5G base station is estimated to consume about as much power as 73 households (6), and 3x as much as the previous generation of base stations (5), (7).



## Foreign media commented on whether 5G base stations consume electricity



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Sep 27, 2021 · As the number of 5G base stations continues to increase, the cost pressure on major operators is also increasing, and electricity expenses will rise sharply. Energy saving ...

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UK Parliament  
Finnish Transport and Communications Agency  
Traficom  
2020 Study by The Haut Conseil Pour Le Climat  
Readings on The Energy Use of 5G  
Information and



Communication Technology (ICT), including data centres, communication networks and user devices, accounted for an estimated 4-6% of global electricity use in 2020. Increasing demand for ICT is expected to lead to an increase in global ICT energy use over the next decade."See more on ehtrust jrseco

## How much power does 5G consume? - JRS ...

One 5G base station is estimated to consume about as much power as 73 households (6), and 3x as much as the previous generation of base ...

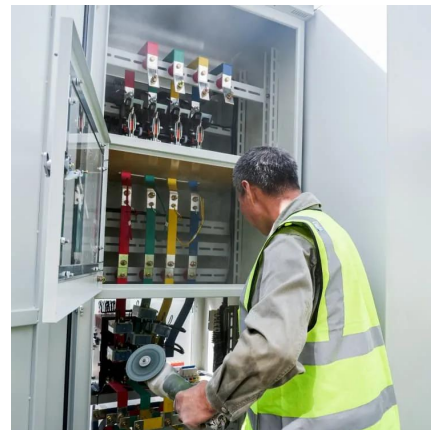


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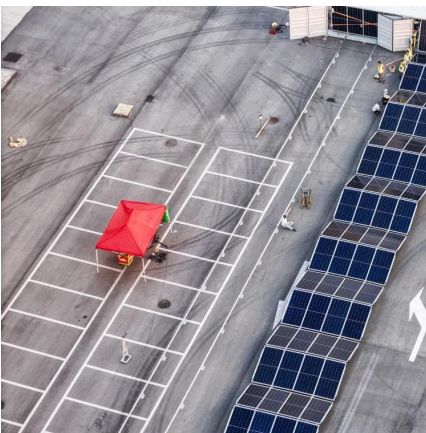
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