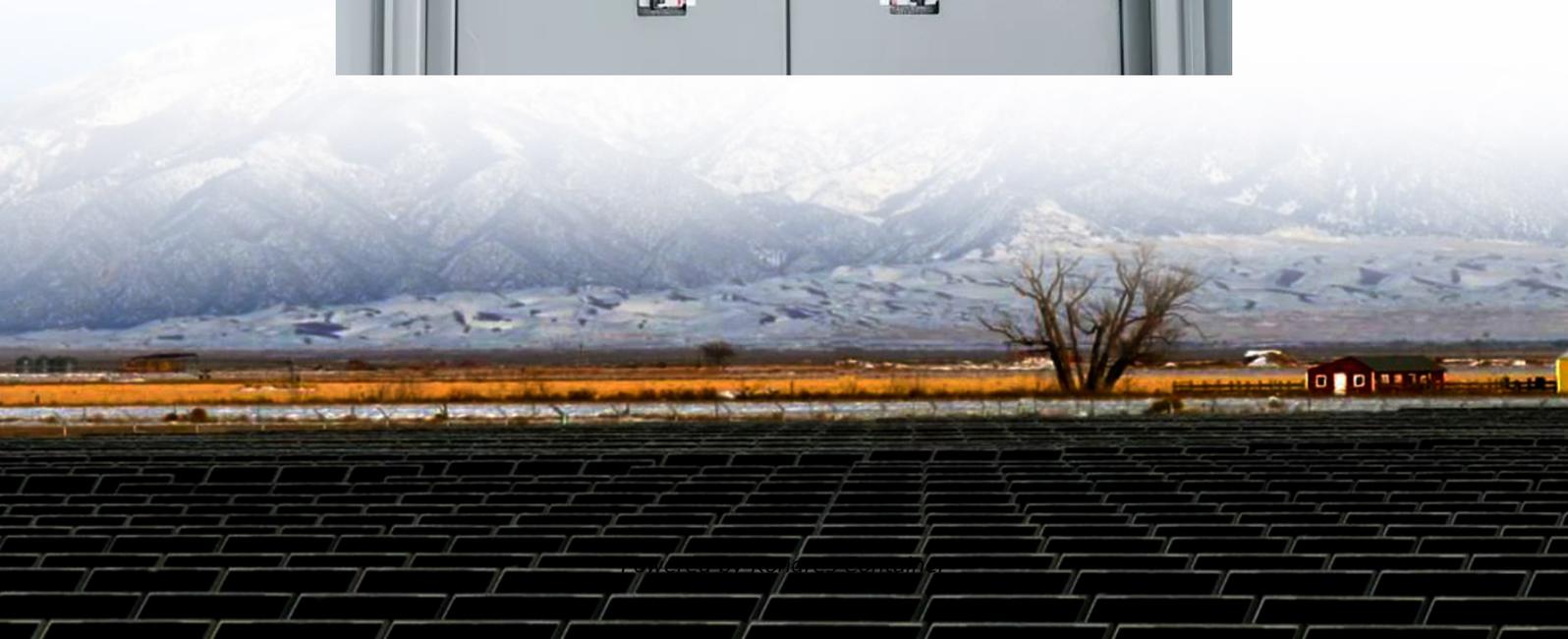


## Kongres Container

# Is it legal to transfer power to 5G base stations



## Overview

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Is there a 5G Spectrum Sharing Regulation?

There is no focused 5G network or spectrum sharing regulation. Some spectrum allocated to wireless use is shared with federal government users, including the 3.55 to 3.65 GHz band. In such shared bands, the FCC requires private users to avoid harmful interference to government users.

How much power does a 5G system need?

To keep the power density per MHz similar to LTE systems, the 100MHz 3.5GHz spectrum will require 5x 80 W, which is not easy to be achieved. 5G trials need to define a realistic output power trade-off between coverage, power consumption, EMF limits, and performance.

Which carriers are deploying 5G?

Regional carriers also are deploying 5G service throughout their footprints. In general, 5G is being deployed in parallel to existing 4G networks. The exception is DISH Network, which launched its 5G-only service in June 2022, and certified that it served 70% of the US population in mid-2023.

Does 5G increase ambient radiofrequency radiation levels?

5G and the proliferation of cell towers and cell antennas in close proximity to where people lives work and play is increasing ambient radiofrequency radiation levels.

Do 5G networks need to be unbundled?

There are no specific federal regulations mandating unbundling of 5G networks, or any other wireless networks. However, carriers are required to permit resale of their voice services and to enter into roaming agreements with other carriers.

What is a 5G network?

5G networks are the next generation of mobile systems that will provide faster speeds, lower latencies, and extended connectivity than existing 4G networks. The new 5G system will provide a vast range of new services, while extended connectivity is necessary for IoT, smart home applications, and areas where smart devices are widely used.

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