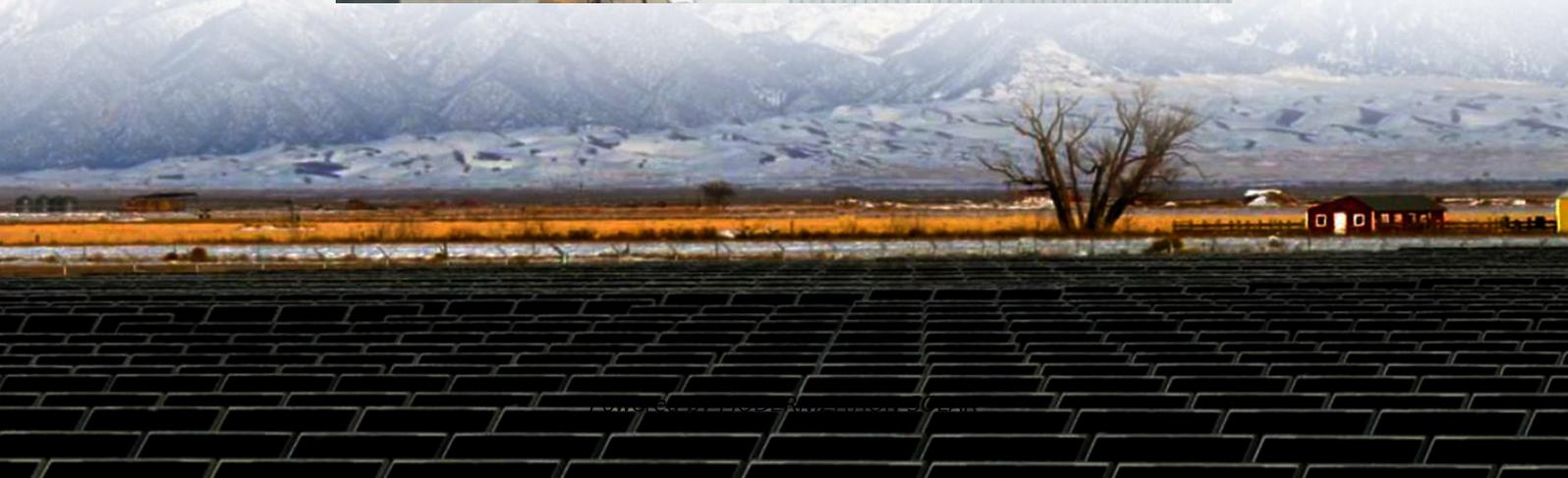


# **How much power does an outdoor base station usually have**





## Overview

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How much power does a base station have?

Maximum base station power is limited to 38 dBm output power for Medium-Range base stations, 24 dBm output power for Local Area base stations, and to 20 dBm for Home base stations. This power is defined per antenna and carrier, except for home base stations, where the power over all antennas (up to four) is counted.

What is base station Power?

Base station power refers to the output power level of base stations, which is defined by specific maximum limits (24 dBm for Local Area base stations and 20 dBm for Home base stations) and includes tolerances for deviation from declared power levels, as well as specifications for total power control dynamic range. How useful is this definition?

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What is the maximum base station Power?

Maximum base station power is limited to 24 dBm output power for Local Area base stations and to 20 dBm for Home base stations, counting the power over all antennas (up to four). There is no maximum base station power defined for Wide Area base stations.

How much power does an antenna use?

The antenna output power level is typically between 20 watts and a few hundred watts for an outdoor base station. Television transmitters, by comparison, have 10-1000 times higher output power than outdoor base stations. Antennas mounted indoors use very low power levels, typically around a few watts or less.



## How much power does an outdoor base station usually have

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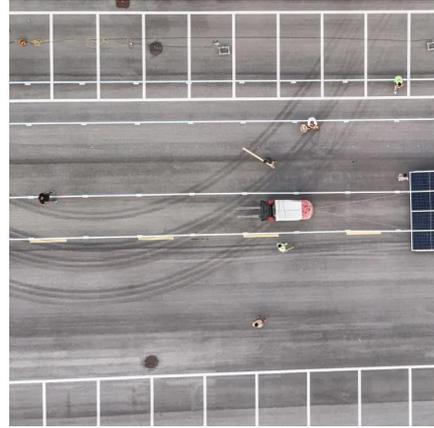


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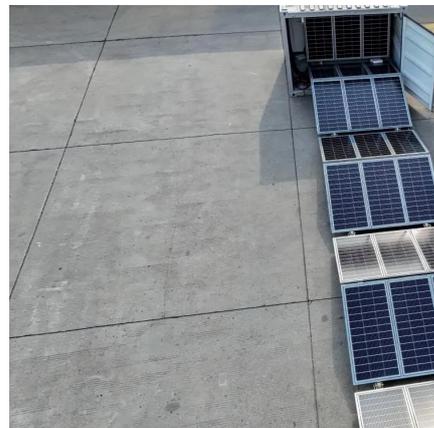


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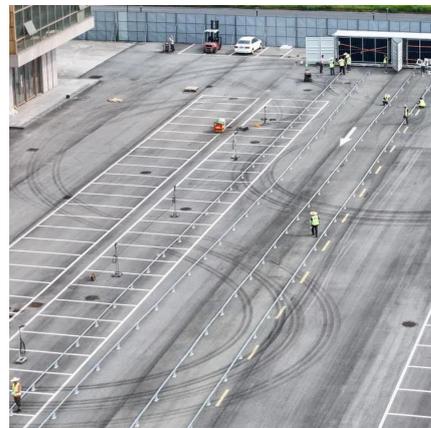


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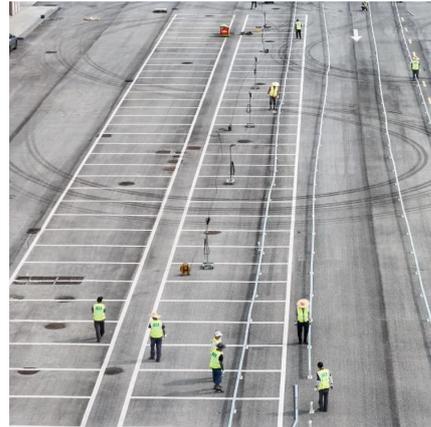
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## Base Station Antenna

The levels of public exposure to electromagnetic energy from any base station vary depending on antenna type, location and distance from the base station. The base station antennas are most ...



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The transmitter characteristics define RF requirements for the wanted signal transmitted from the UE and base station, but also for the unavoidable unwanted emissions outside the transmitted ...

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