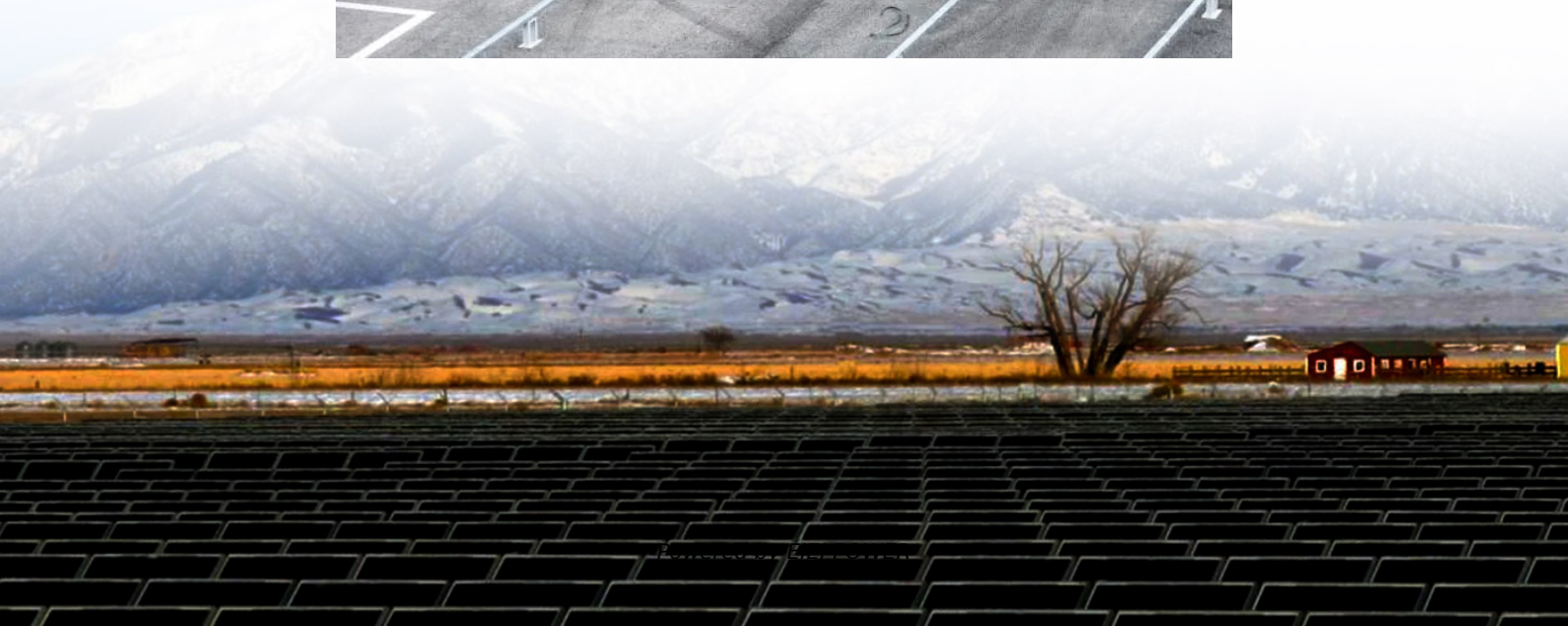
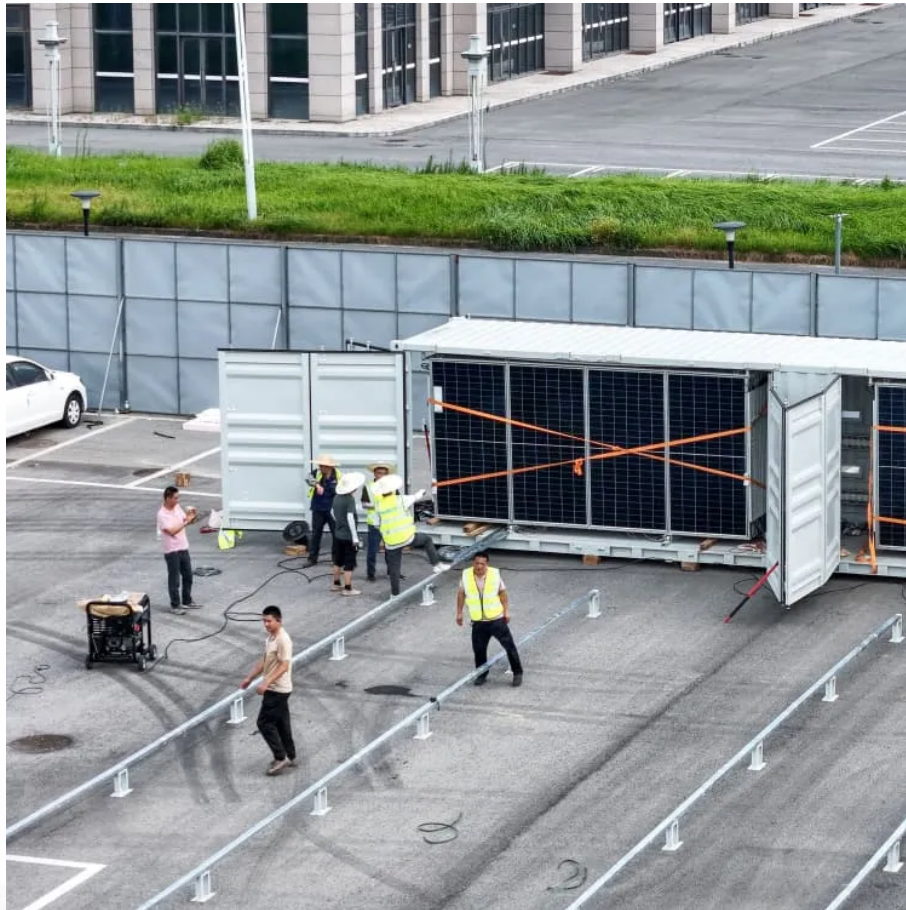


# How to build a 5g base station for communication





## Overview

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What is a 5G base station?

A 5G network base-station connects other wireless devices to a central hub. A look at 5G base-station architecture includes various equipment, such as a 5G base station power amplifier, which converts signals from RF antennas to BUU cabinets (baseband unit in wireless stations).

Will 4G base stations be upgraded to non-standalone 5G?

Upgrading 4G base stations by software to non-standalone (NSA) 5G will still require hardware changes. It will act as an interim, but it will still not satisfy the need for true 5G network architecture. The number of base stations needed increases with each generation of mobile technology to support higher levels of data traffic.

What is a 5G baseband unit?

The 5G baseband unit is responsible for NR baseband protocol processing, including the entire user plane (UP) and control plane (CP) protocol processing functions, and provides the backhaul interface (NG interface) with the core network and the interconnection interface between base stations (Xn interface).

Should a 5G base station be able to withstand a hot climate?

Both the 5G cells and the base station should remain functional even when subjected to severely wet and humid conditions. Even in extremely hot climates, 5G components must remain reliable, stable and energy efficient to prevent downtime, malfunctions and reduction in lifespan.



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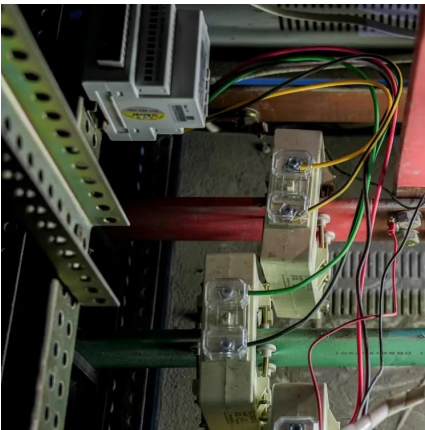
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