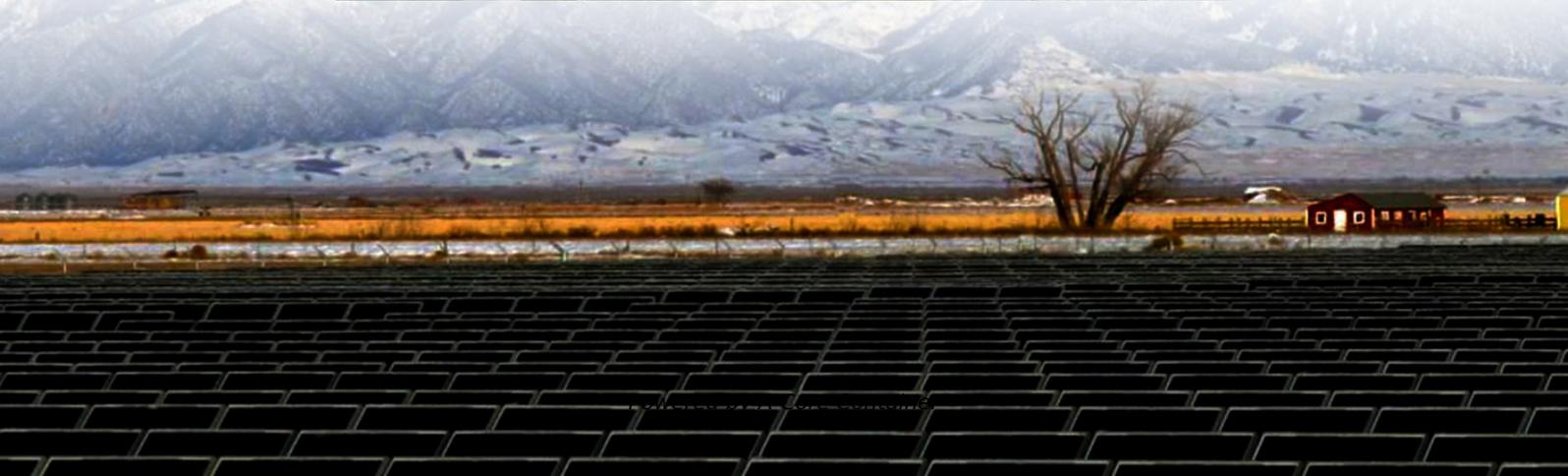


A-Core Container

Can 5G signal base stations turn off the power without permission



Overview

Can a 5G NR base station be deployed on a network?

Before a 5G new radio (NR) base station or user equipment (UE) can be released onto the market, it must pass all necessary tests. Unless the products are 3GPP-compliant, they cannot be deployed on networks. In Release 15, 5G NR is included as well as some new features for long-term evolution (LTE).

Does 5G New Radio save energy?

Emerging use cases and devices demand higher capacity from today's mobile networks, leading to increasingly dense network deployments. In this post, we explore the energy saving features of 5G New Radio and how this enables operators to build denser networks, meet performance demands and maintain low 5G energy consumption.

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.

Why is low 5G energy consumption important?

With new devices and use cases increasing the capacity of the networks, the demand to ensure low 5G energy consumption is critical to minimizing operator expenses and ensuring they can still meet energy reduction goals. How can NR bring an answer?

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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.

What is the limiting factor of a 5G UE?

However, the uplink with the fixed user equipment output power of 23dBm (20mW) will be anyway the limiting factor. User equipment output power will be limited to 23dBm. This is also related to how many transmitting paths are to be assumed. In a typical 5G configuration, the UE has to support 4Rx diversity as a minimum.

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