

A-Core Container

Bulgaria 5G base station power consumption



Overview

Is 5G base station power consumption accurate?

Abstract—The energy consumption of the fifth generation (5G) of mobile networks is one of the major concerns of the telecom industry. However, there is not currently an accurate and tractable approach to evaluate 5G base stations (BSs) power consumption. In this article, we pr.

What is 5G NR?

The 5G NR standard has been designed based on the knowledge of the typical traffic activity in radio networks as well as the need to support sleep states in radio network equipment. By putting the base station into a sleep state when there is no traffic to serve i.e. switching off hardware components, it will consume less energy.

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.

What is 5G New Radio?

5G New Radio (NR) is designed to enable denser network deployments and simultaneously deliver increased energy efficiency, thus reducing both operational costs and environmental impacts. Before we explore the new technical features, let's look more closely at how the existing 4G LTE radio networks function.

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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Can a power consumption model drive the optimisation of greener 5G?

Accuracy of our proposed model indicates that it may be a more viable tool to drive the optimisation of greener 5G (and beyond) networks.

CONCLUSIONS In this paper, we presented a novel power consumption model for realistic 5G AAUs, which builds on

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