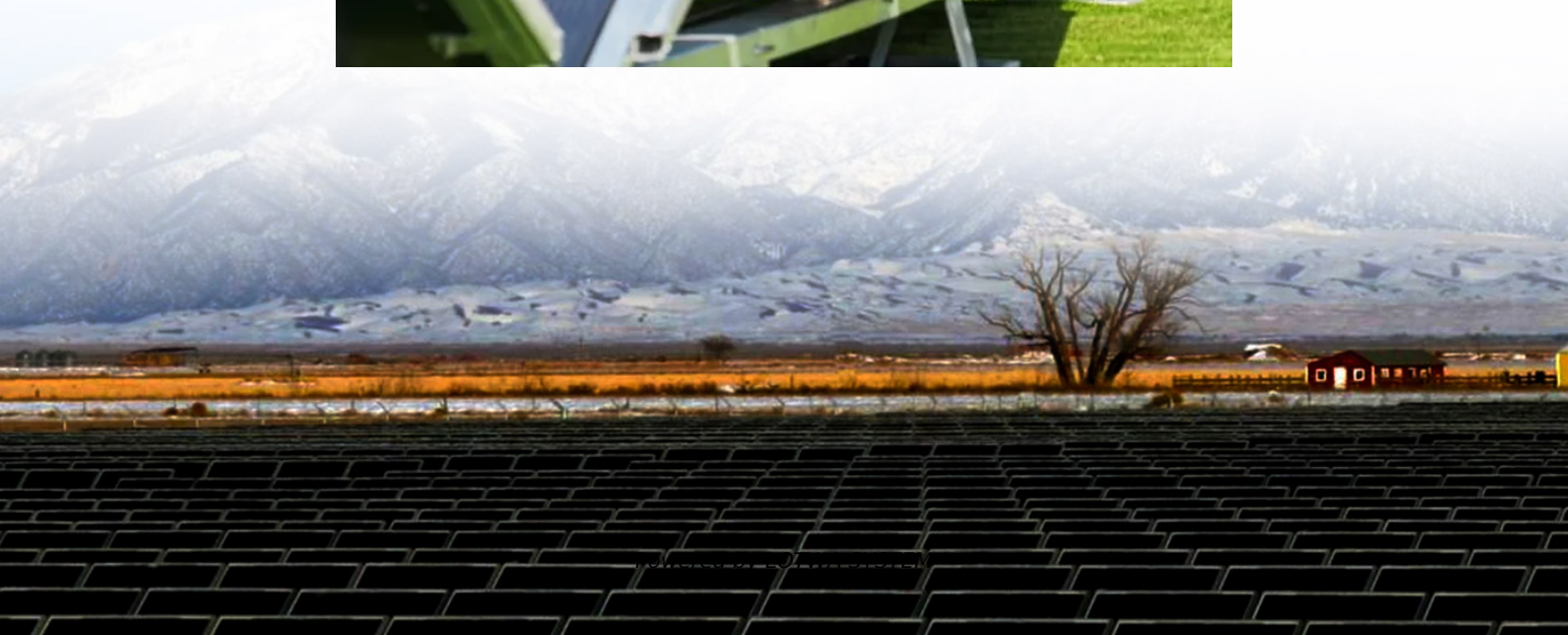


Brussels 5g base station electricity charges





Overview

How does mobile data traffic affect the energy consumption of 5G base stations?

The explosive growth of mobile data traffic has resulted in a significant increase in the energy consumption of 5G base stations (BSs).

Can a 5G ran be deployed in Belgium?

In this work, the whole method is applied to broadband RANs in Belgium for six scenarios of 5G deployment from 2020 to 2025. This paper is organized in four sections.

What is the bottom-up model of 4G rans in Belgium?

The bottom-up model of 4G RANs in Belgium is built by analyzing the RAN deployment of one Belgian operator. Empirical power models of 4G BSs are then established using on-site measurements. Next, a prospective power model of 5G BSs is proposed based on technical and practical assumptions.

What is 5G BS power consumption?

The 5G BS power consumption mainly comes from the active antenna unit (AAU) and the base band unit (BBU), which respectively constitute BS dynamic and static power consumption. The AAU power consumption changes positively with the fluctuation of communication traffic, while the BBU power consumption remains basically unchanged , , .



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