

# Belgian electricity industry targets 5g base stations





## Overview

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How good is 5G in Belgium?

The study, conducted in Q4 2024, analysed the 5G performance of three major Belgian operators—Proximus, Orange, and Telenet—through 10,000 tests and 300,000 radio samples. Proximus and Orange emerged as joint leaders in Quality of Experience (QoE), with scores of 4.168 and 4.166 out of 5, respectively.

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.

Why has Belgium slowed down its 5G deployment?

Several regulatory and market challenges might have slowed down its 5G deployment: Delayed 5G Auction: Belgium was among the last countries in Western Europe to allocate 5G spectrum, creating a competitive disadvantage for Brussels in network expansion.

Where is the 5G network in Belgium?

Network Research Belgium (in the 3600 MHz band) (NRB's 5G user rights were transferred to Proximus in 2024). The 5G network coverage can be viewed [here](#). Overall, the 5G network appears to be better developed in the northern area of Belgium, in particular in Antwerp, Ghent and coastal cities, as well as in the periphery of Brussels.



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As of 2024, Germany had the most 5G base stations among European Union (EU) member states, with over \*\*\*\*\* base stations installed.

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Therefore, this work aims to estimate the total energy consumption of broadband RANs in Belgium in 2020, and to forecast it by 2025 using six scenarios of 5G deployment. ...

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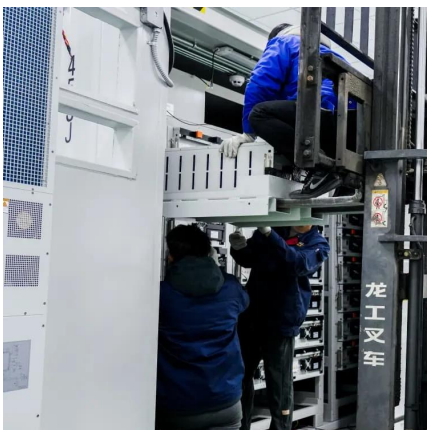
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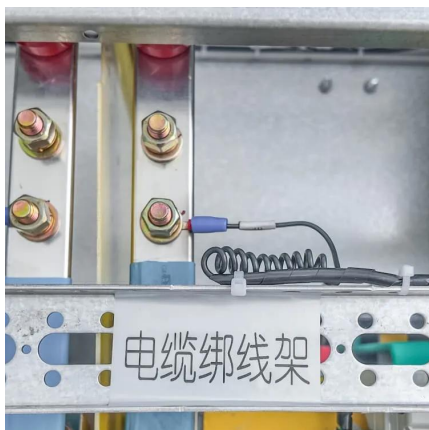
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