

## SolarTech Power Solutions

# Belgian Electric 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.

### 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.

### 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.

### 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.

Should Brussels accelerate its 5G deployment strategy?

With the EU Digital Decade 2025 targets aiming for uninterrupted 5G coverage across all urban areas and major transport routes, Brussels must accelerate its 5G deployment strategy to avoid lagging behind European leaders.

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