

## SolarTech Power Solutions

# Germany 5G communication base station wind power solution



## Overview

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Can Germany power cellular network towers with wind energy?

German carrier Vodafone and compatriot energy company RWE have signed a deal to power thousands of cellular network towers across Germany with renewable energy from offshore wind turbines in the North Sea. Around 1,000 gigawatt hours of wind energy are produced at RWE's Kaskasi offshore wind farm every year.

Will 5G reach Germany by 2025?

Meanwhile, the operator's 5G Standalone network (SA) currently serves nearly 45% of the German population, the telco added. Vodafone previously said that 5G SA technology will reach nationwide coverage by 2025. Vodafone Germany had launched its 5G SA network in 2022 in partnership with Ericsson, Nokia, Qualcomm and Oppo.

How will 5G improve the safety of wind turbines?

The German telco explained that 5G will enable inspection drones to be controlled in real time via mobile communications in order to detect potential technical impairments in the huge wind turbines at an early stage. Also, networked sensors from telemedicine will increase the safety of employees on site.

What percentage of Germany's population has 5G?

Vodafone Germany's 5G network reached 91% of the country's population as of the end of 2023. Meanwhile, the operator's 5G Standalone network (SA) currently serves nearly 45% of the German population, the telco added. Vodafone previously said that 5G SA technology will reach nationwide coverage by 2025.

Does Vodafone have a 5G network in Germany?

Vodafone Germany had launched its 5G SA network in 2022 in partnership

with Ericsson, Nokia, Qualcomm and Oppo. For the 5G expansion, Vodafone is currently relying on frequencies in the 3.6 GHz, 1.8 GHz and 700 MHz bands in large urban areas, residential areas and suburbs and rural areas across Germany.

What frequencies does Vodafone use for 5G?

For the 5G expansion, Vodafone is currently relying on frequencies in the 3.6 GHz, 1.8 GHz and 700 MHz bands in large urban areas, residential areas and suburbs and rural areas across Germany. Vodafone initially launched its 5G network in Germany in 2019, using 3.5 GHz frequencies that it acquired from Telefónica in 2018.

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