

# **Which departments have green base stations in Nordic Communications**





## Overview

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Are green cellular base stations sustainable?

This study presents an overview of sustainable and green cellular base stations (BSs), which account for most of the energy consumed in cellular networks. We review the architecture of the BS and the power consumption model, and then summarize the trends in green cellular network research over the past decade.

How do cellular base stations reshape non-uniform energy supplies and energy demands?

These strategies use bidirectional energy flow to reshape the non-uniform energy supplies and energy demands over mobile networks. A joint spectrum and energy sharing method is presented in Guo et al. (2014b) between cellular base stations to minimize the OPEX.

What is a green base station solution?

The green base station solution involves base station system architecture, base station form, power saving technologies, and application of green technologies. Using SDR-based architecture and distributed base stations is a different approach to traditional multiband multimode network construction.

What should a base station do in a wireless communications network?

In a wireless communications network, the base station should maintain high-quality coverage. It should also have the potential for upgrade or evolution. As network traffic increases, power consumption increases proportionally to the number of base stations. However, reducing the number of base stations may degrade network quality.



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Base Stations Enable Mobile Communications  
Antennas Are Placed in Various Locations  
More Mobile Devices Means More Base Stations  
Base Station Output Power Is Low  
Exposure Limits Are Set by Independent Organizations  
Exposure Levels Are Much Lower Than The Limits  
Public Access Is Restricted Where Needed  
No Adverse Health Effects According to The Who  
Independent expert organizations have established exposure limits for radio waves based on many years of research. These limits include large safety margins. The World Health Organization (WHO), among others, recommends exposure limits which are adopted by national authorities. See more on ericsson Datacenters



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