

## Kongres Container

# Mobile communication green base station deployment requirements



## 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.

What is the mobile phone base station deployment industry code?

The Code replaces the C564:2020 Mobile Phone Base Station Deployment Industry Code. The Code supplements the requirements already imposed on Carriers under the existing legislative scheme by requiring them to consult with local communities on the site selection, design and operation of mobile phone base stations.

What is a green base station?

This proliferation of BSs has resulted in consequential increase in energy consumption and Green House Gases (GHGs) emission. Several techniques have been deployed to reduce the energy consumption of the base station in what is called a green base station.

How to make base station (BS) green and energy efficient?

This paper aims to consolidate the work carried out in making base station (BS) green and energy efficient by integrating renewable energy sources (RES). Clean and green technologies are mandatory for reduction of carbon footprint in future cellular networks.

Can a green base station reduce energy consumption?

Several techniques have been deployed to reduce the energy consumption of the base station in what is called a green base station. This paper presents an insight into these approaches and highlights key challenges and potential

research directions.

What is a mobile phone base station code?

The Code provides a positive consultative framework to improve the community knowledge of mobile phone base stations and deployments. An underlying principle of this Code is that public health and safety is of paramount importance.

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