

# **Communication green base station shutdown conditions**



## Overview

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In allusion to the energy efficiency optimization, base station sleeping strategy is proposed, in which the base station should be turned off when the traffic is low and the surrounding base stations cooperate to serve the users in that cell. This technical report explores how network energy saving technologies that have emerged since the 4G era, such as carrier shutdown, channel shutdown, symbol shutdown etc., can be leveraged to mitigate 5G energy consumption. We review the architecture of the BS and the power consumption model, and then summarize the trends in green cellular network research and network operators implement test. The rapid development of 5G technology leads to increasing energy consumption in base stations (BSs).

## Communication green base station shutdown conditions

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### Two-Time Scale Energy-Saving Scheme with Base Station Sleeping, ...

This paper investigates the energy-saving problem in a multi-base stations (BSs) scenario, incorporating BS deep sleep on a large time scale and symbol shutdown and power ...

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### Communication green base station specification and standard ...

Abstract This document stipulates the terms and definitions of green and low-carbon services for communication base stations, the scope of classification for green and low ?



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### Optimal energy-saving operation strategy of 5G base station with

To further explore the energy-saving potential of 5 G base stations, this paper proposes an energy-saving operation model for 5 G base stations that incorporates communication caching and ...



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### 5G base station saves energy and

## reduces consumption

In addition to my country Mobile, my country Tower and the other two major operators have also announced "intelligent shutdown of 5G base stations", which operates in a manner of ...



## Final draft of deliverable D.WG3-02-Smart Energy Saving of 5G ...

This technical report explores how network energy saving technologies, such as carrier shutdown, channel shutdown, symbol shutdown etc., that have emerged since the 4G era, can be leveraged to ...

## Base Station Energy-Saving Strategies for Green Wireless

This paper presents a control theoretical approach to study the base station sleeping strategy optimization issues with CoMP communications.



## The Energy Saving Measurement System and Method of Main Base ...

There are two parts in the energy saving calculation system and method of the

main base station communication equipment.



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### Energy Saving of 5G Base Stations Based on Symbol Shutdown and ...

The rapid development of 5G technology leads to increasing energy consumption in base stations (BSs). For the vision of green and sustainable communications, we propose a scheme aimed at reducing ...



### Base Station Energy-Saving Strategies for Green Wireless Communications

Specifically, the dynamic operation of cellular base stations depends on the traffic, real-time electricity price, and the pollutant level associated with electricity generation.

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### Our communication green base station

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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