

# **Mobile communication base station energy method**





## Overview

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Various approaches have been proposed to reduce the energy consumption of an RBS, for instance, passive cooling techniques, energy-efficient backhaul solutions, and distributed base station design by using a remote radio head (RRH).



## Mobile communication base station energy method

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### [INVESTIGATORY ANALYSIS OF ENERGY ...](#)

This study examines the energy requirements of a multi-tenant BTS, focusing on power consumption patterns, key energy-intensive ...

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### **Multi-objective cooperative optimization of communication base ...**

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network ...

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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 ...

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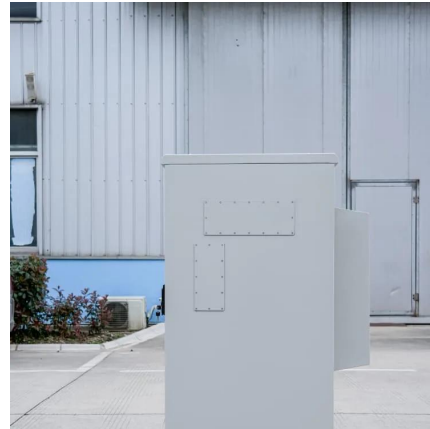
### **CN101931979A**

The invention discloses a mobile communication base station energy efficiency evaluation method and a mobile communication base station energy



efficiency evaluation system.

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## INVESTIGATORY ANALYSIS OF ENERGY REQUIREMENT OF A MULTI-TENANT MOBILE

This study examines the energy requirements of a multi-tenant BTS, focusing on power consumption patterns, key energy-intensive components, and optimization strategies.

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## Efficient cooling system for outdoor mobile communication base station

A mobile communication base station and cooling system technology, which is applied in the field of high-efficiency cooling system for outdoor mobile communication base ...

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## Resource management in cellular base stations powered by ...

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 ...

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## Energy-saving control strategy for ultra-dense network base ...

Aiming at the problem of mobile data traffic surge in 5G networks, this paper proposes an effective solution combining massive multiple-input multiple-output techniques ...

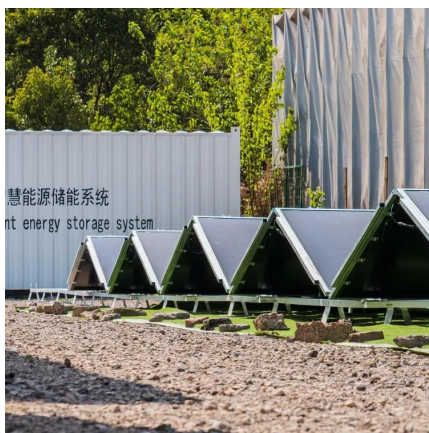
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## Base Station Energy Management in 5G Networks Using Wide ...

The traffic activity of fifth generation (5G) networks demand for new energy management techniques that is dynamic deep and longer duration of sleep as compared to the fourth ...

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## Energy-Efficient Base Station Deployment in Heterogeneous Communication

Abstract: With the advent of the 5G era, mobile users have higher requirements for network performance, and the expansion of network coverage has become an inevitable trend. ...

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## Energy Consumption Optimization in Mobile Communication ...

roduce the system model for the wireless communication network. A mixed-integer nonlinear programming (MINLP) approach to minimize the network's energy consumption is introduced ...

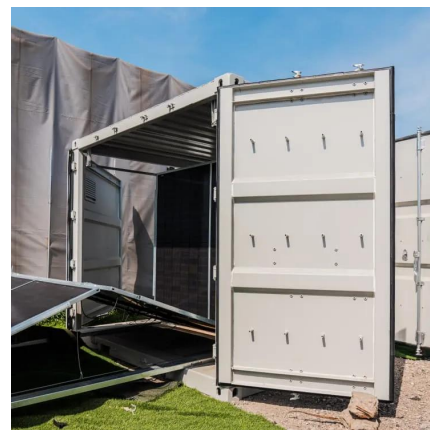
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## Multi-objective cooperative optimization of communication base station

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network ...

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## Joint Traffic Prediction and Base Station Sleeping for Energy Saving

...

Densely deployed base station (BS) network is one of the important technologies for 5G and beyond mobile communication system, which improves the system throughput by deploying a

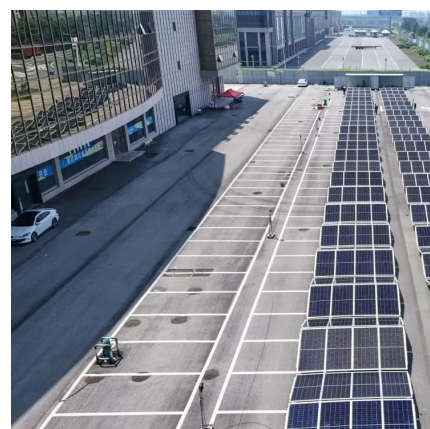
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## Development of the Method and Algorithm of Supplying the Mobile

In this work, we propose a method of continuous energy supply of a mobile communication base station, which is one of the main parts of the mobile communication ...

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## Energy consumption optimization of 5G base stations considering

The explosive growth of mobile data traffic has resulted in a significant increase in the energy consumption of 5G base stations (BSs). However, the e...

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## Modeling and aggregated control of large-scale 5G base stations ...

Lähdekorpi P, Hronec M, Jolma P, Moilanen J. Energy efficiency of 5G mobile networks with base station sleep modes. In: 2017 IEEE conference on standards for ...

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

Abstract With the rapid development of mobile communication, the major operators speed up the pace of network construction, the number of base stations increases ...

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## 9

Various approaches have been proposed to reduce the energy consumption of an RBS, for instance, passive cooling techniques, energy-efficient backhaul solutions, and distributed base ...

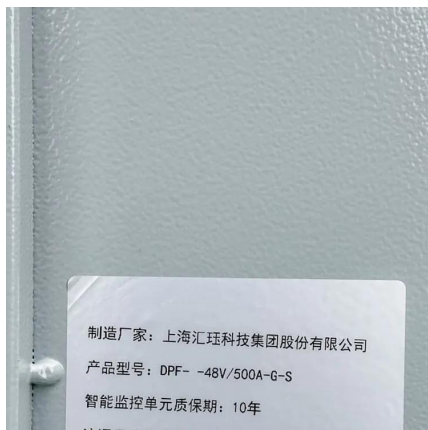
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## Modeling and aggregated control of large-scale 5G base stations ...

A significant number of 5G base stations (gNBs) and their backup energy storage systems (BESSs) are redundantly configured, possessing surplus capacit...

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## (PDF) Accurate Base Station Placement in 4G LTE Networks ...

Cellular mobile communication network planning and optimization involve a complex engineering process that deals with network fundamentals, radio resource elements, ...

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## Energy-Efficient Base Station Deployment in Heterogeneous ...

Abstract: With the advent of the 5G era, mobile users have higher requirements for network performance, and the expansion of network coverage has become an inevitable trend. ...

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## Multi-objective cooperative optimization of communication ...

This paper develops a method to consider the multi-objective cooperative optimization operation of 5G communication base stations and Active Distribution Network (ADN) and constructs a ...

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## Reinforcement learning optimization for base station sleeping ...

According to related statistics, the energy consumption of the base station accounts for more than 70% in wireless communication network. So, it is important to reduce the energy ...

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## Energy-efficiency schemes for base stations in 5G heterogeneous

In today's 5G era, the energy efficiency (EE) of cellular base stations is crucial for sustainable communication. Recognizing this, Mobile Network Operators are actively prioritizing EE for ...

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## Energy-saving control strategy for ultra-dense network base stations

Aiming at the problem of mobile data traffic surge in 5G networks, this paper proposes an effective solution combining massive multiple-input multiple-output techniques ...

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## Optimization Control Strategy for Base Stations Based on Communication

With the maturity and large-scale deployment of 5G technology, the proportion of energy consumption of base stations in the smart grid is increasing, and there is an urgent need to ...

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## Energy efficient resource allocation method for 5G access ...

Edge computing and IIoT (Industrial Internet of Things) are two representative application scenarios in 5G (5th Generation) mobile communication technology network. ...

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## [STUDY ON AN ENERGY-SAVING THERMAL ...](#)

unication base stations has become one of the important ways to save energy. Practical applications showed that the outdoor communication base station has a high temperature ...

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