# Mobile communication base station energy method


## Overview

The invention is a novel energy-saving method applied to a base station of a GSM mobile communication system, which can realize functions such as business volume measurement, business transfer scheme decision-making, service transfer implementation, and closing of idle service units. The invention is a novel energy-saving method applied to a base station of a GSM mobile communication system, which can realize functions such as business volume measurement, business transfer scheme decision-making, service transfer implementation, and closing of idle service units. 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 both network maintenance and environmental stewardship in future cellular networks. The paper aims to provide. ns require very low latency connections and extreme reliability. Deportment of data transmission networks and systems, Urgench State University named after Abu Rayhan Biruni, Urgench, Uzbekistan.

# Mobile communication base station energy method

**INVESTIGATORY ANALYSIS OF ENERGY ...**

Empirical measurements under varying load conditions revealed that power consumption is network load-dependent and time-dependent, with peak ...

[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 ...

[Algorithms for uninterrupted power supply to mobile ...]

In this article, an algorithm for automatic control of energy sources was developed to improve the uninterrupted power supply of mobile communication base stations. Based on the proposed ...

**Energy-Saving Techniques in the Next Generation of Mobile Communication**

Multiple scientific investigations have validated the feasibility of managing power consumption in a base station, and several effective techniques have been proposed to achieve this ...

[Energy-efficiency schemes for base stations in 5G]

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 both ...

[Energy-saving control strategy for ultra-dense network base stations]

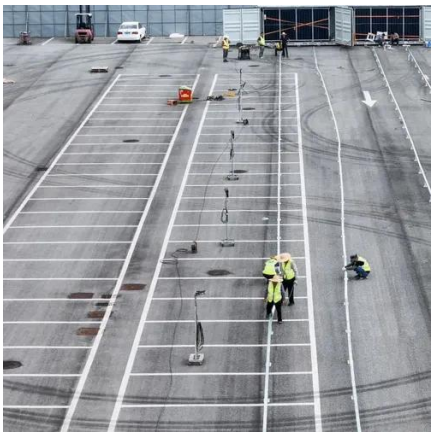
Aiming at the problem of mobile data traffic surge in 5G networks, this paper proposes an effective solution combining massive multiple-input multiple-output techniques with Ultra-Dense ...

[INVESTIGATORY ANALYSIS OF ENERGY REQUIREMENT OF A MULTI-TENANT MOBILE]

Empirical measurements under varying load conditions revealed that power consumption is network load-dependent and time-dependent, with peak demand occurring between 9:30 AM-2:30 ...

[Energy Management of Base Station in 5G and B5G: Revisited]

To achieve low latency, higher throughput, larger capacity, higher reliability, and wider connectivity, 5G base stations (gNodeB) need to be deployed in mmWave. Since mmWave base stations (gNodeB) ...



[An energy-saving method applied in GSM base station]

The present invention relates to an energy-saving method for a base station in a mobile communication system, in particular to a central base station with multiple processing units and a

[Energy Consumption Optimization in Mobile Communication ...]

energy-focused design of multi-antenna systems [8], [10]-[12]. We propose a method for minimizing the energy consumption of the wireless communication network, subject to cell load constraints that ...

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