

# Communication with the base station after shutdown





## Overview

---

How to reduce power-intensive base stations?

To address the issue of power-intensive base stations, proposed a combined approach involving base station sleep and spectrum allocation. This approach aims to discover the most efficient operating state and spectrum allocation for SBS to minimize power consumption and network disturbance.

How many batteries does a communication base station use?

Each communication base station uses a set of 200Ah·48V batteries. The initial capacity residual coefficient of the standby battery is 0.7, and the discharge depth is 0.3. When the mains power input is interrupted, the backup battery is used to ensure the uninterrupted operation of communication devices.

When does a base station need a backup battery?

When the power supply of the grid is good or the base station load is in a state of low energy consumption, the backup battery of the base station is usually idle. Reasonable evaluation of the reserve energy required by the base station is the premise of its response to the grid dispatching.

How does the SBS manage the base station sleep strategy?

The SBS manages the base station sleep strategy and power allocation based on the corresponding rate demands of all UEs. As a result, each SBS can evaluate all UEs comprehensively, thereby improving the transmission rate for each UE and achieving a higher overall achievable rate.



## Communication with the base station after shutdown

---

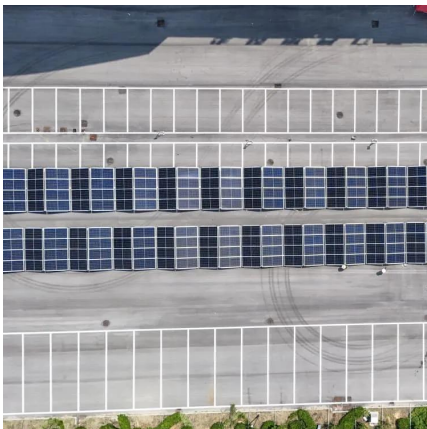


### power electronics

Aug 18, 2020 · If more than one base station picks up the signal, it is possible to "triangulate" the phone - determining its rough location based on receiver signal strength from each base ...

### Communication Base Station

The design and implementation of Tian-Power's communication backup solution aims to ensure the normal operation of the communication system in the event of a power outage or power ...



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

Feb 24, 2023 · With the rapid development of mobile communication, the major operators speed up the pace of network construction, the number of base stations increases significantly, the ...

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

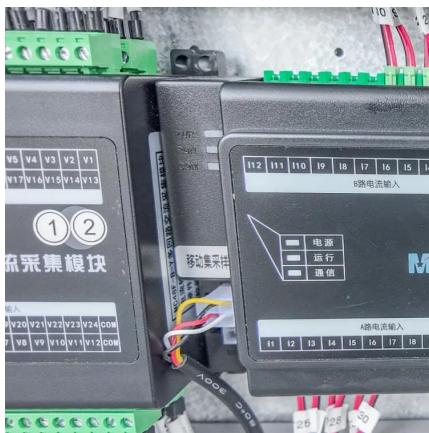
The Definition of Energy Saving  
MeasurementIntroduction to The Model Usage  
AlgorithmThe Overview of GBRT AlgorithmNew  
Energy Saving FormulaThere are two parts in the  
energy saving calculation system and method of



the main base station communication equipment. The first step is to select the appropriate modeling indexes to reduce index dimension based on the above algorithm from more than 100 indicators of network management through the chi-square test, Pearson correlation analysis and See more on link.springer tian-power

## Communication Base Station - tian-power

The design and implementation of Tian-Power's communication backup solution aims to ensure the normal operation of the communication system in the event of a power outage or power ...



### [Joint optimization method of equipment shutdown and ...](#)

Dec 15, 2024 · Simultaneously, with the rapid deployment of communication base stations, power costs for operators are rising sharply. This paper investigates the demand response potential ...

### [Optimization of Communication Base Station ...](#)

Dec 7, 2023 · In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable ...



### [Two-Time Scale Energy-Saving Scheme with Base Station ...](#)

Jul 25, 2025 · Green communications (GC) is an urgent need for 5G and 6G. How to realize GC with guaranteed quality of service is still a





challenging problem. This paper investigates the ...

### [Dispatching strategy of base station backup power...](#)

Dec 19, 2023 · Dispatching strategy of base station backup power supply considering communication flow variation To cite this article: Zheyu Ouyang and Yanchi Zhang 2023 J. ...



### [Uninterrupted Communication: Complete Backup Power...](#)

Conclusion For telecom base stations, uninterrupted power is not optional--it's the lifeline of connectivity. Through the right configuration, strict maintenance, and intelligent control, ...

### [Base station power control strategy in ultra-dense networks...](#)

Aug 1, 2025 · However, the deployment of numerous small cells results in a linear increase in energy consumption in wireless communication systems. To enhance system efficiency and ...





### [Optimal energy-saving operation strategy of 5G base station ...](#)

Dec 1, 2025 · 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 ...

### [Optimization of Communication Base Station Battery ...](#)

Dec 7, 2023 · In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable power supplies. This work studies the optimization of ...



## Contact Us

---

For technical specifications, project proposals, or partnership inquiries, please visit:  
<https://bukhobuhle.co.za>

**Scan QR Code for More Information**



<https://bukhobuhle.co.za>