

# Base station communication equipment power saving

In 5G communications, base stations are large power consumers, and about 80% of energy consumption comes from widely dispersed base stations. It is predicted that by ...

The present disclosure relates to a user equipment power-saving method and device, a user equipment and a base station. The user equipment power-saving method comprises: ...

Using intelligent power management technology, it can realize intelligent power supply to communication equipment, providing appropriate power supply according to the actual ...

Based on the performance data of the cell served by the communication equipment in a period of time (reflecting the cell load), the power saving amount in various ...

The impact of the Base Stations comes from the combination of the power consumption of the equipment itself (up to 1500 Watts for a nowadays macro base station) multiplied by the ...

In the layout of the internal equipment of the communication base station, in order to ensure the normal operation of the communication base station, it is necessary to control the temperature ...

For the latter, although energy consumed for service provisioning in high traffic load scenarios may be seen as justifiable, energy saving techniques in spatial-, time-, power-, ...

Due to harsh climate conditions and the absence of on-site personnel to maintain fuel generators, the company required a reliable solution to ensure the base station's stable operation and ...

A user equipment power-saving method includes: determining a second signaling on the basis of a first signaling, wherein the second signaling is a radio resource control (RRC) connection ...

Figure 1: The energy performance journey of mobile networks In LTE, the energy consumption of the radio access network (RAN) was dominated by base stations that ...

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 ...

This enables maintenance personnel to take prompt measures to prevent damage to communication equipment, power supply equipment, etc. ...

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The subject disclosure relates to User Equipment power-saving method and device, a user equipment and a base station. The user equipment power-saving method comprises: ...

To reduce the extra power consumption due to frequent sleep mode switching of base stations, a sleep mode switching decision algorithm is proposed. The algorithm reduces ...

Technical Report ITU-T Smart Energy Saving of 5G Base Station: Based on AI and other emerging technologies to forecast and optimize the management of 5G wireless network ...

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 ...

The subject disclosure relates to the field of communication, and more particularly, to a method and device for saving power of User Equipment (UE), UE, and a base station.

Data centres (DCs) and telecommunication base stations (TBSs) are energy intensive with ~40% of the energy consumption for cooling. Here, we provide a ...

Due to harsh climate conditions and the absence of on-site personnel to maintain fuel generators, the company required a reliable solution to ensure the base ...

Communication base station The tower backup battery plays a vital role in the communication base station, especially in the power guarantee and system ...

The temperature of the temperature control equipment for the communication outdoor cabinet is 10~38 °C, which fully meets the temperature control requirement of the nation-al mobile ...

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 ...

In response to the current widespread issue of high energy consumption in 5G base stations, this article conducts overall design, hardware design, and software design of the base station ...

This parallel increase in usage of cellular phones has lead to implementation of communication towers called base stations.. The base stations comprises of electronic equipment and ...



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