

5g base station uses intelligent power saving

Compared with the fourth generation (4G) technology, the fifth generation (5G) network possesses higher transmission rate, larger system capacity and lower tran

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 ...

Smart Energy Saving of 5G Base Station: Based on AI and other emerging technologies to forecast and optimize the management of 5G wireless network energy consumption

Execution Strategy: The network management system receives the integrated energy-saving strategy and executes energy-saving functions on 5G base stations, such as deep sleep, ...

After 5G trial commercial network testing and verification, the power consumption of a single 5G station is 3 to 4 times that of a single 4G station, and operators are facing operating pressure ...

In this study, the idle space of the base station's energy storage is used to stabilize the photovoltaic output, and a photovoltaic storage system microgrid of a 5G base station is ...

However, it is far away from being enough, a revolutionized energy saving solution should be taken into consideration. In response to the requirement of an intelligent and self-adaptive ...

A technology of energy saving and realization method of power supply, applied in the field of communication, can solve the problems of increasing the floor space of the computer room, ...

This paper introduces the basic energy-saving technology of 5G base station, and puts forward the intelligent energy-saving solutions based on artificial intell

There are mainly two method of base station energy saving, which are hardware power saving and software energy saving. It is based on lowering the basic energy consumption of the base ...

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 ...

In response to the energy-saving needs of 5G base stations, this article combines IoT technology, artificial intelligence technology, and thermal design technology to conduct research on energy ...

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The invention relates to the technical field of 5G, in particular to an energy-saving method of a 5G base station, which comprises the steps of firstly collecting traffic data of each...

The 5G base station energy-saving strategic plan combines 5G energy-saving with AI artificial intelligence to improve the prediction accuracy for each community and different ...

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 ...

In this paper, a framework is developed to study the impact of different power model assumptions on energy saving in a 5G separation architecture comprising high power ...

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