

Principle of intelligent power generation in communication base stations

Our research addresses the critical intersection of communication and power systems in the era of advanced information technologies. We highlight the strategic importance of ...

With the rapid development of 5G base station construction, significant energy storage is installed to ensure stable communication. However, these storage resources often remain idle, ...

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 ...

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

Abstract: 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 reduce ...

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 ...

AI has been around for decades, but its effect on our culture, economy, and military is rising quickly. There have been several optimization strategies based on it, and each of these methods has the ...

This article identifies energy-saving potential of the fifth generation (5G) Radio Access Network, and describes main energy-saving principles and technologies.

The AI-driven network energy saving solution can forecast the traffic load of base stations based on historical traffic load, service type, site coverage and user behaviors.

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