

# Analysis of abnormal power consumption of communication base stations

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These insights highlight the need for ongoing research into better methods for accurately measuring and optimizing power consumption in base stations. This research is crucial for enhancing energy ...

With the large-scale construction of 5G, the operating cost of the communication industry is increasing year by year, and the energy consumption management of w

This paper investigates changes in the power consumption of base stations according to their respective traffic and develops a model for the power consumption as per traffic generated ...

Therefore, this paper investigates changes in the instantaneous power consumption of GSM (Global System for Mobile Communications) and UMTS (Universal Mobile Telecommunications System) ...

Importantly, this study item indicates that new 5G power consumption models are needed to accurately develop and optimize new energy saving solutions, while also considering the complexity emerging ...

In this paper, we investigate power consumption model of both structures. We compare the power consumption of serving a random user at the cell edge when varying the cell radius and also ...

The network power efficiency with the consideration of propagation environment and network constraints is investigated to identify the energy-efficient architecture for the 5G mobile ...

Using both site-level measurements and aggregated multi-eNB data collected over a typical workweek, the study analyses traffic trends, PRB utilization, and base station power draw across a 24-hour cycle.

This project is a comprehensive management system for energy consumption of communication base stations



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designed for communication base stations of China Unicom's Wulanchabu branch.

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