

May 16, 2025 Abstract Base stations are large power consumers. Using AI models to accurately predict base station traffic not only helps information and communication infrastructure save ?

In order to meet the constant temperature environment in the base station, cooling in summer and heating in winter, the annual energy consumption ?

Base station sleeping strategy in coordinated multipoint (CoMP) communications is a promising method to solve this problem.

May 15, 2017 The consumption of communication base station includes four aspects, namely, communication equipment, air conditioning system, distribution system and auxiliary ?

Sep 17, 2019 How can 5G increase performance and ensure low energy consumption? Find out in our latest Research blog post.

Jan 1, 2025 The cooling requirements of communication base stations (CBSs) align with the effects of radiative cooling coatings. However, these effects have not b?

Oct 24, 2025 The refrigeration system accounts for 40-60% of the total energy consumption of the base station, so an effective energy-saving technology is much needed. This paper ?

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 ?

Abstract This paper evaluates the economy of gravity heat pipe exchanger used for cooling communication base station to replace air conditioning in winter and transition seasons.

Sep 25, 2024 However, these storage resources often remain idle, leading to inefficiency. To enhance the utilization of fi base station energy storage (BSES), this paper proposes a co ?

May 13, 2024 This article focuses on the optimized operation of communication base stations, especially the effective utilization of energy storage batteries. Currently, base station energy ?

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May 12, 2024 The air-conditioning system of the base station operates 24 hours a day resulting in huge energy consumption, and there is an urgent need for effective energy-saving solutions. ?

Aug 1, 2023 An energy consumption optimization strategy of 5G base stations (BSs) considering variable threshold sleep mechanism (ECOS-BS) is proposed, which includes the initial ?

The study proposes an energy saving model based on multiplexed time series fusion, aiming to optimise the energy consumption control of communication base stations in cold regions, and ?

May 11, 2022 The base station traffic has non-stationary chaotic characteristics. In addition to the traditional time series prediction method ARIMA model, scholars at home and abroad also ?

Feb 23, 2023 There 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 mod ?

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