

What is the significance of energy storage in communication base stations

What are the standardized energy-saving metrics for a base station?

(1) Energy-saving reward: after choosing a shallower sleep strategy for a base station, the system may save more energy if a deeper sleep mode can be chosen, and in this paper, the standardized energy-saving metrics are defined as (18) $R_{ie} = E_{SM=0} - E_{SM=i} = E_{SM=0} - E_{SM=3}$

Why do base stations waste so much energy?

When there is little or no communication activity, base stations typically consume more than 80% of their peak power consumption, leading to significant energy waste. This energy waste not only increases operational costs, but also burdens the environment, which is contrary to global sustainability goals.

Why is sleep mode important in a base station?

The importance of this observation lies in the fact that, due to the stability of the user's behavior, the base station does not need to switch frequently between sleep mode and active mode, which can significantly reduce the complexity of the operation and energy consumption.

Why is base station sleep technology important?

It is worth noting that due to the introduction of base station sleep technology, the distribution of tasks between individual base stations is correlated. This means that the situation of each base station cannot be considered only in isolation, but the whole network structure needs to be taken into account.

How does mobile data traffic affect the energy consumption of 5G base stations?

The explosive growth of mobile data traffic has resulted in a significant increase in the energy consumption of 5G base stations (BSs).

What is threshold-based base station sleep strategy?

Threshold-based base station sleep strategy is a common base station management method in wireless communication networks, which adjusts the operating state of the base station to save energy and improve resource utilization by dynamically setting appropriate thresholds.



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