

## ContainerPower Energy Solutions

# Base station power sleep



## Overview

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Does putting a base station into a sleep state save energy?

By putting the base station into a sleep state when there is no traffic to serve i.e. switching off hardware components, it will consume less energy. The more components that are switched off, the more energy we will save (shown on the y-axis in Figure 3).

What is the sleep mechanism of a base station?

The sleep mechanism of a base station refers to the intelligent shutdown of major power consumption devices, such as the AAU of the base station, when there is no load or the load is low, such that the energy consumption is greatly reduced.

Can a base station sleep strategy reduce energy consumption in UDN systems?

The goal of this paper is to find a base station sleep strategy in UDN systems that reduces the total system energy consumption while being able to guarantee QoS.

Can a 5G base station energy storage sleep mechanism be optimized?

The optimization configuration method for the 5G base station energy storage proposed in this article, that considered the sleep mechanism, has certain engineering application prospects and practical value; however, the factors considered are not comprehensive enough.

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.

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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