

A-Core Container

Communication base station energy storage system indicators



Overview

What is the sleep mode of a base station?

There are different stages of the sleep mode of base stations. These are mentioned below: On: the small cell operates fully and consumes the maximal power. Standby: the small cell sleeps in “light” mode and can easily wake up on UE’s request., This can be done by shutting down the TCXO heater and RF.

Which metric is used to Measure EE of wireless cellular networks?

Mbits/J is the most widely used metric in research publications for measuring the EE of wireless cellular networks. The trade-offs such as between circuit power and transmit power are very well addressed in the paper, and how the savings associated with one of them should not be offset by increases in the other is well explained in Sect. 3.

How to conserve energy in a wireless sensor network?

Various strategies, such as duty cycle scheduling, EE routing, energy harvesting and EE Medium Access Control can be used to conserve energy in a wireless sensor network . Mobile videos are accountable for the rigorous consumption of energy as they involve the usage of screen display, CPU, audio/video decoder and network connectivity.

What is energy consumption index (ECI)?

Energy Consumption Index (ECI)—It represents the efficiency of BS power utilization. The lower value of ECI means greater EE as mentioned in Eq. 6 below. Its unit is J/bit. Here KPI is the key performance indicator such as throughput, coverage and p_{site} is the total input power of the BS site.

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