

Kongres Container

Safety of energy storage in communication base stations



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.

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.

How BS affect the energy consumption of a cellular network?

To contribute to the expansion of mobile traffic, a large number of BS are required. In a regular cellular network, the BSs consume more than half of the total energy, therefore their increased numbers have a significant influence on the overall energy consumption.

How much energy does a BS consume?

In the BS itself, the air interface i.e., radio and power amplifier (PA) consumes approximately 50%, while the digital signal processing consumes approximately 15% of the total energy of the network . The term “Green Cellular Network” has gained huge popularity since the current telecom industry is more cautious about the improvements in EE.

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