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Title: Battery sleep mode for communication base station

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A GSM (Global System for Mobile Communications) base station, also known as a BTS (Base Transceiver Station), is a critical component in a GSM cellular network.

The phrase "communication batteries" is often applied broadly, sometimes including handheld radios, emergency devices, or general-purpose backup batteries. In practice, when ...

ks. Among these, base stations (BSs) in radio access networks (RANs) account for over half of the total energy usage. To address this, we propose a multi-cell sleep strategy combined with ad.

This article proposes a two - stage stochastic programming model considering demand transfer and sleep mechanisms for base station battery configuration, and also proposes a heuristic algorithm.

The obtained results revealed that the combination of centralized renewable microgeneration energy, advanced sleep mode policies and macro base station (MBS) traffic ...

As the primary source of energy consumption in communication networks, the power usage of 5G base station (BS) is a significant concern. The sleep mode (SM) of BS can be utilized to reduce mobile ...

Forced-handover is a concept of forcing edge mobile stations to neighbour relay stations for both energy saving and SINR improvement of the network. The proposed energy saving scheme ...

In the communication power supply field, base station interruptions may occur due to sudden natural disasters or unstable power supplies. This work studies the optimization of battery ...

To address this, we propose a multi-cell sleep strategy combined with adaptive cell zooming, user association, and reconfigurable intelligent surface (RIS) to minimize BS energy consumption.



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