Base station power sleep

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...

Sleep modes in base station transceivers, based on the deactivation of components and especially of the power amplifier in time slots of no signal transmission, show a significant potential to ...

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 ...

To maximize overall benefits for the investors and operators of base station energy storage, we proposed a bi-level optimization model for the operation of the energy storage, and the ...

To solve this crucial issue, a day-ahead collaborative regulation method for 5G BSs and power grids considering a sleep strategy and energy storage regulation capacity is proposed.

ASM allows the deactivation of the BS to intense sleep modes which correspond to lower power levels but longer reactivation times, by making it possible to obtain a convenient tradeoff ...

By adopting a user association and sleep strategy in this paper, BS power consumption can be reduced and the power system can allocate more power resources to other necessary ...

An energy consumption optimization strategy of 5G base stations (BSs) considering variable threshold sleep mechanism (ECOS-BS) is proposed, which includes the initial matching ...

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 ...

To tackle the dynamic changes in QoS requirements caused by user mobility, small base stations share local models with the macro base station, which acts as the central control unit, via the ...

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