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

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 ...

To reduce average power consumption and save power in 5G, we have modelled the 5G BSs sleeping mechanism as an M/G/1 queue with two types of vacations (two different ...

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, ...

5G base stations (BSs) are potential flexible resources for power systems due to their dynamic adjustable power consumption.

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 ...

The high-energy consumption and high construction density of 5G base stations have greatly increased the demand for backup energy storage batteries.To maximize overall benefits for ...

To reduce the extra power consumption due to frequent sleep mode switching of base stations, a sleep mode switching decision algorithm is proposed. The algorithm reduces ...

In this regard, this study models a 5G BS as an (M^ { [X]}/G/1) feedback retrial queue with a sleeping strategy to reduce average power consumption and conserve power in ...

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