

Communication 5g base station switch disconnection





Overview

What is BS switching on/off strategy?

Many of the previous works proposed BS switching ON/OFF strategies based on the underlying network traffic (ye2019drag, ; gao2019user, ; wu2021deep,). The core idea is to capture the continuous state of traffic demand at the BS and, accordingly, take the switching on/off decision for the BS.

Can 5G New Radio save power?

Thus, to study power-saving schemes in 5G New Radio (NR), some researchers use network simulators like ns-3, which save time and money by allowing them to validate their solutions without needing a physical prototype.

Can BS switching off strategies be validated in a real network simulator?

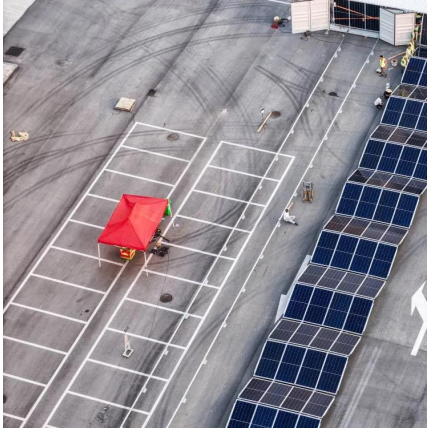
The ns-3 implementation will help the research community validate their implementations of BS switching off strategies in a real network simulator instead of validating them purely on mathematical simulations. However, this pursuit faces various research and engineering hurdles.

What does the switching ON/OFF logic do?

The switching on/off logic performs the following tasks to manage the mmWave BS s and UEs: Switch off IDLE mmWave BS: SmartMME checks the IDLE time of each mmWave BS and switches off those that are not connected to any UEs.



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Analysis of the Impact of Substation Switching Operations on 5G Base

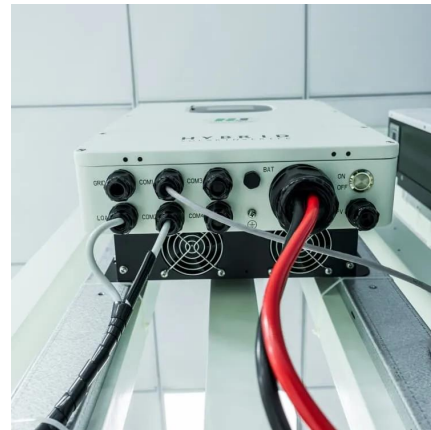
A 500kV substation is used to calculate the impact size, and the minimum distance between the antenna of the 5G base station and the switch operation device is determined.

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[Base Station ON-OFF Switching in 5G Wireless Networks: ...](#)

However, in 5G systems with new physical layer techniques and highly heterogeneous network architecture, new challenges arise in the design of BS ON-OFF ...

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[Base-station switch-off with mutual repulsion in fifth ...](#)

When small cells are densely deployed in the fifth-generation cellular networks, switching off a part of base stations (BSs) is a practical approach for saving energy ...

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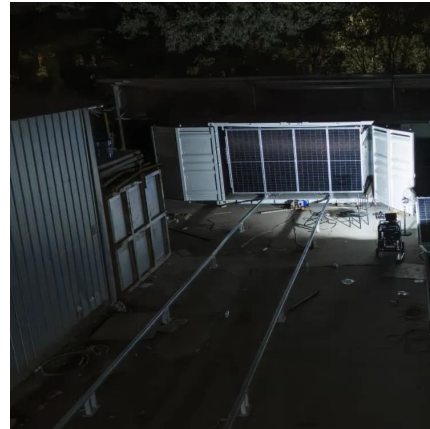
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Base Station ON-OFF Switching in 5G Wireless Networks: Approaches and Challenges Mingjie Feng, Student Member, IEEE, Shiwen Mao, Senior Member, IEEE and Tao Jiang, Senior Member,



IEEE ...

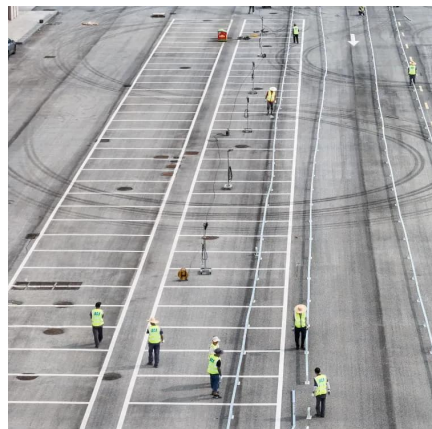
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Base Station Switch off Methods for Mobile Communication ...

During low traffic hours, switching off base stations is an effective way of saving energy in mobile communication networks. To serve increased traffic and to fulfill large and high-speed data ...

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Base-station switch-off with mutual repulsion in fifth ...

1 Introduction With the development of the fifth-generation (5G) mobile communication system, key technologies such as the massive multi-input-multi-output ...

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(PDF) Base Station ON-OFF Switching in 5G Wireless

Base Station ON-OFF Switching in 5G Wireless Networks: Approaches and Challenges Mingjie Feng, Student Member, IEEE, Shiwen Mao, Senior Member, IEEE and ...

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Base Station ON-OFF Switching in 5G Wireless Networks: ...

Abstract--To achieve the expected 1000x data rates under the exponential growth of traffic demand, a large number of base stations (BS) or access points (AP) will be deployed ...

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Base Station ON-OFF Switching in 5G Wireless Networks: ...

To achieve the expected 1000x data rates under the exponential growth of traffic demand, a large number of BSs or APs will be deployed in 5G wireless systems to support ...

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SmartMME : Implementation of Base Station Switching Off ...

The proliferation of User Equipment (UE) drives this energy demand, urging 5G deployments to seek more energy-efficient methodologies. In this work, we propose ...

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An optimal dispatch strategy for 5G base stations equipped ...

The escalating deployment of 5G base stations (BSs) and self-service battery swapping cabinets (BSCs) in urban distribution networks has raised concern...

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