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Title: Peak and valley power saving for communication base stations

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The AI-driven network energy saving solution can forecast the traffic load of base stations based on historical traffic load, service type, site coverage and user behaviors.

The analysis results demonstrate that the proposed model can effectively reduce the power consumption of base stations while mitigating the ...

With the rapid development of 5G base station construction, significant energy storage is installed to ensure stable communication. However, these storage ...

For the energy-saving effect of communication base stations, scholars have carried out in-depth research work and achieved good results.

In this paper, a framework is developed to study the impact of different power model assumptions on energy saving in a 5G separation architecture comprising high power Base Stations ...

China Tower Zhejiang Branch and Huawei iSitePower launched the intelligent peak staggering technology to improve battery utilization and reduce electricity fees ...

These enablers are designed to facilitate dynamic energy-saving techniques for 5G base stations (gNBs). The objective is to reduce gNB energy use by operating the radios more efficiently than ...

Therefore, in response to the impact of communication load rate on the load of 5G base stations, this paper proposes a base station energy storage auxiliary power grid peak shaving method based on ...

In this paper, we answer the question of finding the optimal combination of power-, space- and time-domain energy-saving techniques for different BS configurations at varying network loads.



# Peak and valley power saving for communication base stations

Since access networks are designed to support peak time traffic, the utilization of base stations can be very inefficient during off-peak time because the traffic profile is time varying.

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