



# 5g base station intelligent power saving





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### Final draft of deliverable D.WG3-02-Smart Energy Saving of 5G

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Smart energy saving of 5G base stations: Based on AI and other emerging technologies to forecast and optimize the management of 5G wireless network energy consumption

### Base Station Energy Saving based on Imitation Learning in 5G Network

To reduce power consumption, energy saving technologies for BSs have emerged, which are in line with the concept of green communications and can save operators' costs. In this paper, our goal is to ...



### Final draft of deliverable D.WG3-02-Smart Energy Saving of 5G

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This technical report explores how network energy saving technologies that have emerged since the 4G era, such as carrier shutdown, channel shutdown, symbol shutdown etc., can be leveraged to ...

### Intelligent Energy Saving Solution of 5G Base Station Based on

This paper introduces the basic energy-saving technology of 5G base station, and puts forward the intelligent energy-saving solutions based on artificial intell



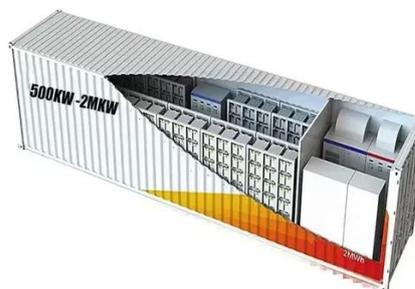
## A Power Consumption Model and Energy Saving Techniques for 5G ...

Aiming at minimizing the base station (BS) energy consumption under low and medium load scenarios, the 3GPP recently completed a Release 18 study on energy savi



## Intelligent Energy Saving Solution of 5G Base Station Based on

This article identifies energy-saving potential of the fifth generation (5G) Radio Access Network, and describes main energy-saving principles and technologies.



## Research on Energy-Saving Technology for Unmanned 5G Base ...

In response to the current widespread issue of high energy consumption in 5G base stations, this article conducts overall design, hardware design, and software design of the base station energy-saving ...

## [Smart Energy-Saving Solutions Based on](#)



## Artificial

This chapter reports how to explore the techniques of energy saving which have already appeared since mobile communication era, like carrier/channel/symbol shutdown, etc., can be ...



## **Evaluation of the power-saving effect of 5G base station based on AI**

The research and application of energy-saving technology for 5G wireless networks are significant for the emission-reduction work of Communication Operators. The traditional power ...

## **Optimal energy-saving operation strategy of 5G base station with**

To further explore the energy-saving potential of 5G base stations, this paper proposes an energy-saving operation model for 5G base stations that incorporates communication caching and ...





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