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# Wireless outdoor ep base station energy method

What is the energy-saving technology of base stations?

This technical report focuses on energy-saving technology of base stations. Some energy saving technologies since 4G era will be explained in details, while artificial intelligence and big data technology will be introduced in response to the requirement of an intelligent and self-adaptive energy saving solution.

What is a base station?

This work in the present document is defined as delivered useful bits to UEs covered by this Base Station. A Base Station is more energy efficient when doing more work with same energy, doing same work with less energy or in the best case doing more work with less energy.

How can a base station save energy?

There are two main methods of base station energy saving, including hardware and software.

How to reduce power-intensive base stations?

To address the issue of power-intensive base stations, proposed a combined approach involving base station sleep and spectrum allocation. This approach aims to discover the most efficient operating state and spectrum allocation for SBS to minimize power consumption and network disturbance.

In today's 5G era, the energy efficiency (EE) of cellular base stations is crucial for sustainable communication. Recognizing this, Mobile Network Operators are actively prioritizing EE for ...

However, the deployment of numerous small cells results in a linear increase in energy consumption in wireless communication systems. To enhance system efficiency and ...

Environmental Engineering (EE); Measurement method for energy efficiency of wireless access network equipment Dynamic energy performance measurement method of 5G ...

Threshold-based base station sleep strategy is a common base station management method in wireless communication networks, which adjusts the operating state ...

TS 103 786 - V1.2.1 - Environmental Engineering (EE); Measurement method for energy efficiency of wireless access network equipment; Dynamic energy efficiency ...

Abstract--Energy saving in wireless networks is growing in importance due to increasing demand for evolving new-gen cellular networks, environmental and regulatory ...

The implementation of various base station (BS) energy saving (ES) features and the widely varying network traffic demand makes it imperative to quantitatively evaluate the ...

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