

A-Core Container

The power consumption of communication base stations decreased month-on-month



Overview

How do base stations affect mobile cellular network power consumption?

Base stations represent the main contributor to the energy consumption of a mobile cellular network. Since traffic load in mobile networks significantly varies during a working or weekend day, it is important to quantify the influence of these variations on the base station power consumption.

How to reduce the energy consumption of a base station?

So when the inter-cell distance is too large, it is necessary to increase the distance between cells, thus reducing the power consumption of the base station. In the actual network, in order to reduce the energy loss caused by frequent switching, the following two methods can usually be used: increase the distance between cells.

Is there a direct relationship between base station traffic load and power consumption?

The real data in terms of the power consumption and traffic load have been obtained from continuous measurements performed on a fully operated base station site. Measurements show the existence of a direct relationship between base station traffic load and power consumption.

Why does a base station lose a lot of power?

Because switching is a continuous process and the base station is a device that works periodically, the switching loss accounts for a large proportion of the total power consumption of the base station.

How to reduce power consumption in communication towers?

Power consumption in communication towers is reduced by adapting the network capacity to the actual demand at a given time. The cellular tower working will be based on the peak and off peak hours. In current scenario, even at the time of less traffic (less number of users) condition in a particular

region ,all the towers were made to work.

Why is energy management important for mobile communication networks?

Effective energy management is the essential requirement for successful operation of mobile communication networks. Energy saving is one of the important parameter for mobile operators because directly and indirectly mobile operators are creating huge loss to the society by wasting power.

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