
What are the base station battery optimization technologies

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.

How can a base station save energy?

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

How AI based energy saving can help BS Energy Saving?

In response to the requirement of an intelligent and self-adaptive energy saving solution, AI and big data technology are also introduced to BS energy saving for improving the efficiency and reducing the manpower required. 7.2. AI based energy saving for 5G base stations
Nowadays the 5G network deployment is on the fast track around the world.

What is Feedback & Optimization?

Feedback and Optimization: The performance data of the base station are collected to evaluate whether the expected target is achieved or not, and the closed-loop iterative optimization threshold strategy is adopted. 7.5.

This work studies the optimization of battery resource configurations to cope with the duration uncertainty of base station interruption. We mainly consider the demand transfer ...

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 ...

The number of 5G base stations has reached 5.94 million, and the number of 5G users is over 1.87 billion. To deal with the high energy consumption, telecom operators are ...

With the advancement of the 5G era, the quantity of 5G base stations has increased significantly, and most base station backup energy storage has been idle for an ...

Change Log This document contains Version 1.0 of the ITU-T Technical Report on "Smart Energy Saving of 5G Base Station: Based on AI and other emerging technologies to ...

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

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