

Ministry of Environmental Protection on communication base station batteries

Do 5G application base stations meet the electromagnetic radiation environment control limits?

According to the analysis of the monitoring data, the electromagnetic radiation environment levels of 5G application base stations at various monitoring points in urban areas all meet the requirements of the Electromagnetic Environment Control Limits (GB8702-2014).

Can low-carbon communication base stations improve local energy use?

Therefore, low-carbon upgrades to communication base stations can effectively improve the economics of local energy use while reducing local environmental pollution and gaining public health benefits. For this research, we recommend further in-depth exploration in three areas for the future.

Can 5G application base stations avoid pollution before treatment?

To understand the current situation of the electromagnetic radiation environment of 5G application base stations is the basis for avoiding the old road of "pollution before treatment" in environmental management and solving the problem of neighbourhood avoidance.

How effective are communication base stations in reducing air pollution?

In Figure 5 A, after implementing optimization measures to communication base stations, the cases of COPDs related to air pollution caused by communication base stations in 2021 would be reduced to 13,004 (65% reduction). The effectiveness of these optimizations becomes more pronounced in the following year.

Do communication base station operations increase electricity consumption in China?

Comparing data from 2021, 2025, and 2030, we found that the electricity consumption due to communication base station operations in China increased annually.

How much energy does a communication base station use a day?

A small-scale communication base station communication antenna with an average power of 2 kW can consume up to 48 kWh per day. 4,5,6 Therefore, the low-carbon upgrade of communication base stations and systems is at the core of the telecommunications industry's energy use issues.

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