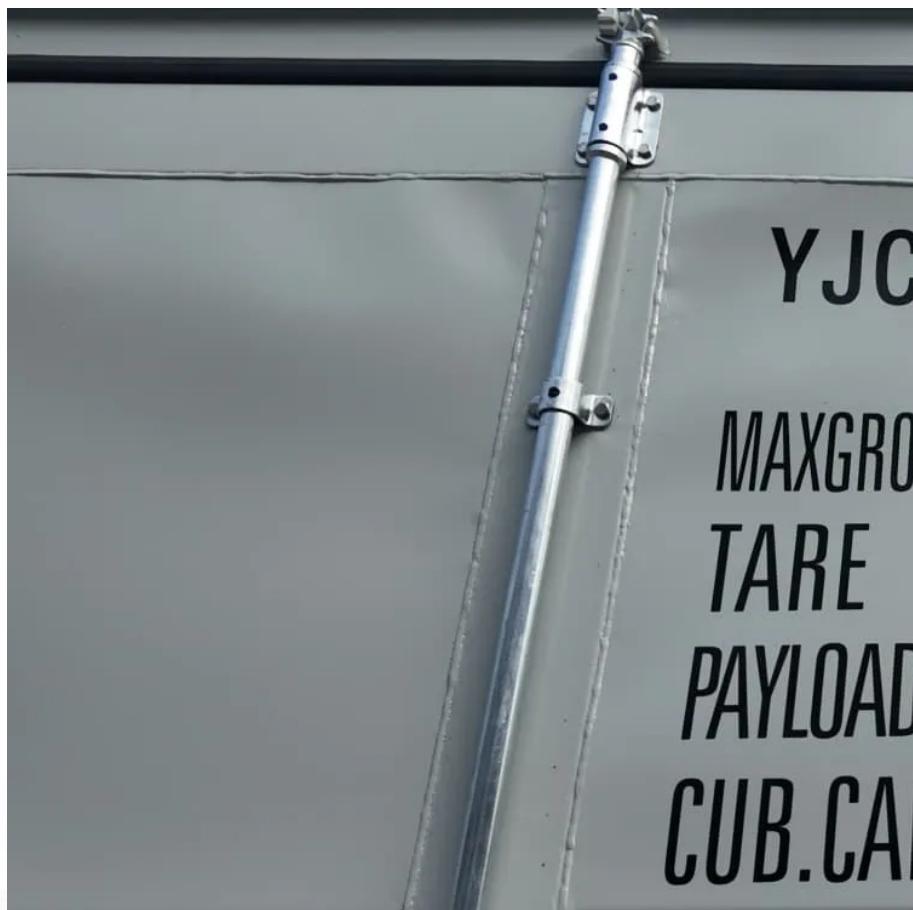




ŁOTWA SYSTEM

Communication Green Base Station Second Harmonic





Overview

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.

What is a low-carbon base station?

(A) The low-carbon base station consists of a power converter, power grid, photovoltaic, energy storage battery, and base station. The low-carbon base station system maintains communication with the control cloud platform and the micro base station.

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.

Can a low-carbon base station improve public health?

The results of this study indicate that low-carbon upgrades of base stations can not only significantly reduce the operational costs and carbon emissions of communication systems but also reduce pollution and bring considerable public health benefits. However, this transformation still needs to overcome multidimensional challenges.



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