

# **Avaru Communication Green Base Station Construction Unit**





## Overview

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Are cellular base stations sustainable?

Multiple requests from the same IP address are counted as one view. Energy efficiency and renewable energy are the main pillars of sustainability and environmental compatibility. This study presents an overview of sustainable and green cellular base stations (BSs), which account for most of the energy consumed in cellular networks.

Can a 5G base station promote green development of mobile communication facilities?

However, a significant reduction of ca. 42.8% can be achieved by optimizing the power structure and base station layout strategy and reducing equipment power consumption. Overall, this study provides a clear approach to assess the environmental impact of the 5G base station and will promote the green development of mobile communication facilities.

How can base stations be improved?

Currently, limited research (Tala't et al., 2017) is focused on improving the power supply mode of base stations, such as replacing traditional thermal power generation with renewable energy (photovoltaic systems, wind power) and equipping micro base stations with solar cells.

How many BBus does a 5G micro base station have?

In this study, a single 5G macro base station is equipped with a fully loaded BBU and three AAUs (channel number 64T) and a single 5G micro base station is equipped with a BBU with a 4T baseband board and three RRUs (channel number 4T). Fig. 2. The system boundary of assessing the life cycle impacts of 5G base station.



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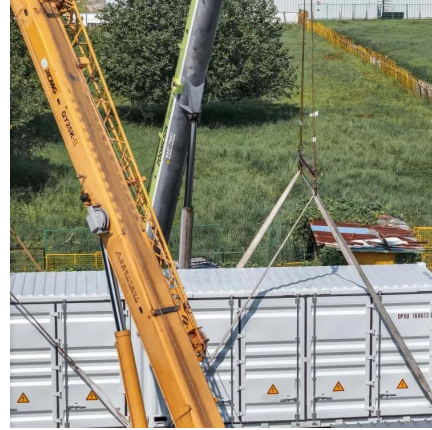


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