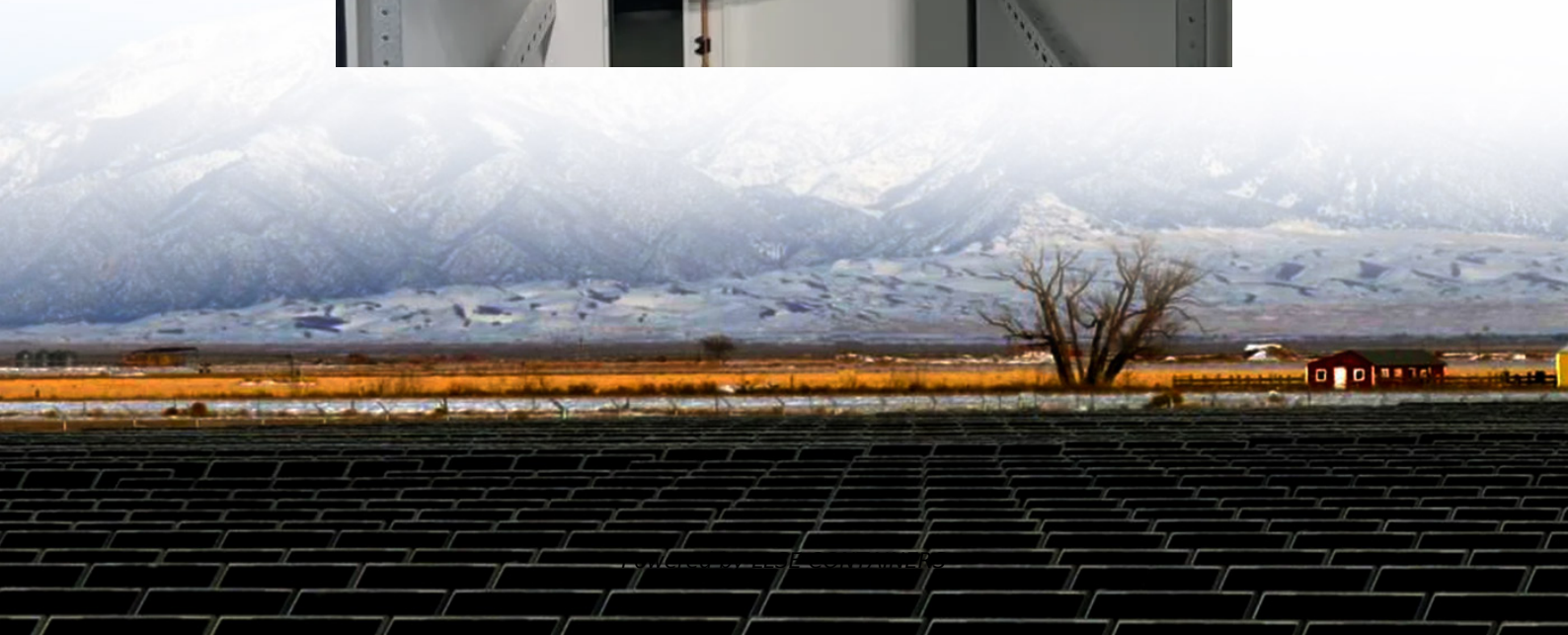


Mobile communication green base station installation fee





Overview

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.

What is the scope of a 5G base station?

Scope: The scope of the entire lifecycle of the 5G base station includes the materials and equipment manufacturing, transportation and operation, which excludes the end-of-life stage. Both a single 5G macro base station and a 5G micro base station are included.

How much power does a 5G base station use?

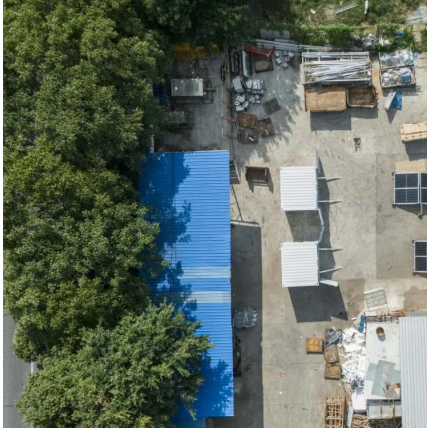
2.6. Scenario analysis 5G base stations are high-frequency with an average coverage of about 450 m, while the 4G base stations cover an average range of about 1500 m. Taking a 64T64R S111 5G macro station equipment as an example, the power consumption was ca. 3–4 kW, 2–3 times higher than that of 4G equipment (Li, 2019).

Is 5G suitable for building large-scale macro base stations?

The 5G base station can be roughly divided into a macro base station, a micro base station, and a room subsystem according to the coverage range. The coverage capacity of 5G is much lower compared to 4G due to its high frequency. Thus, 5G is not suitable for building large-scale macro base stations (Zhou, 2017).



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