

Communication green base station power generation specification requirements





Overview

Are green cellular base stations sustainable?

This study presents an overview of sustainable and green cellular base stations (BSs), which account for most of the energy consumed in cellular networks. We review the architecture of the BS and the power consumption model, and then summarize the trends in green cellular network research over the past decade.

How many green cellular Bs are there?

GSMA predicted that the number of green BSs would increase to 389,800 by 2020 [8], which reflects the growing awareness of cellular network operators about the significant economic and ecological influence of their networks in the coming years. Figure 10. Worldwide deployment of green cellular BSs [107].

How do cellular network operators shift to green practices?

Cellular network operators attempt to shift toward green practices using two main approaches. The first approach uses energy-efficient hardware to reduce the energy consumption of BSs at the equipment level and adopts economic power sources to feed these stations.

What is a green communication initiative?

The green communication initiative primarily aims to improve the energy efficiency, reduce the OPEX, and eliminate the GHG emissions of BSs to guarantee their future evolution [2, 3]. Cellular network operators attempt to shift toward green practices using two main approaches.



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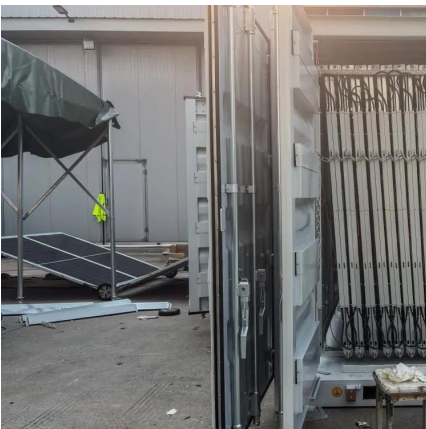
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