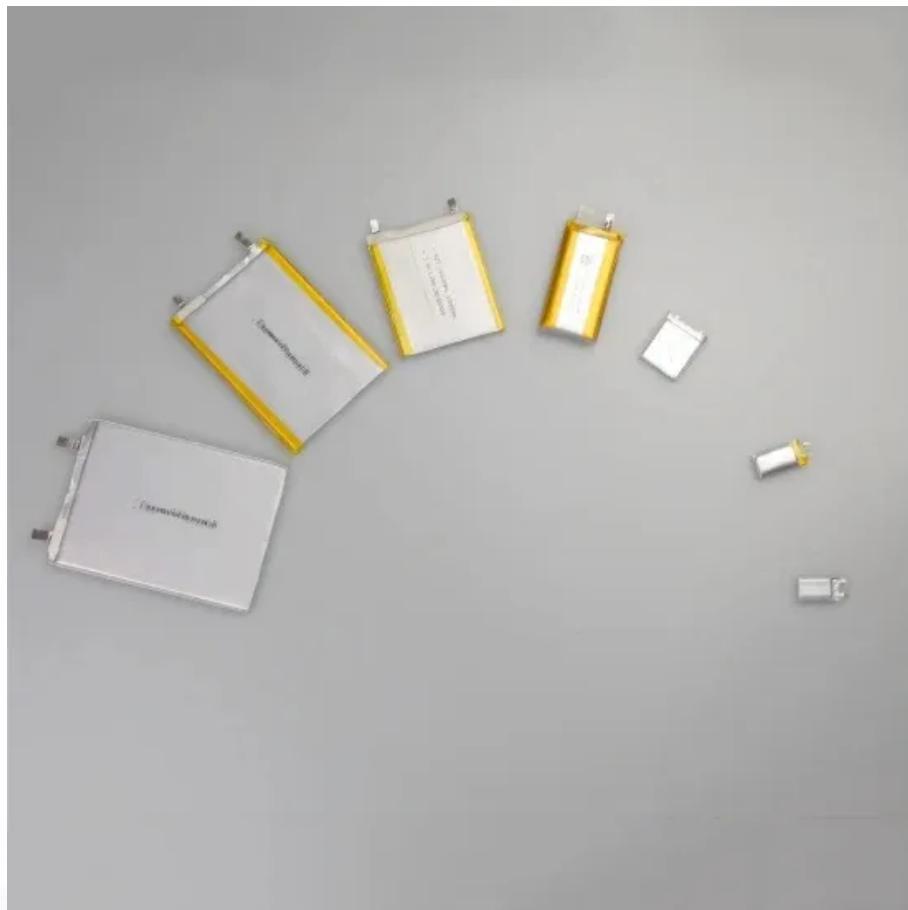


African operator communication green base station field



Overview

What is a green base station?

This proliferation of BSs has resulted in consequential increase in energy consumption and Green House Gases (GHGs) emission. Several techniques have been deployed to reduce the energy consumption of the base station in what is called a green base station.

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.

Can a green base station reduce energy consumption?

Several techniques have been deployed to reduce the energy consumption of the base station in what is called a green base station. This paper presents an insight into these approaches and highlights key challenges and potential research directions.

Why do cellular network operators need more cellular base stations?

Data traffic and the number of mobile subscribers have increased significantly prompting cellular network operators to install additional mobile cellular base stations (BSs) to meet the increasing demand. This proliferation of BSs has resulted in consequential increase in energy consumption and Green House Gases (GHGs) emission.

African operator communication green base station field



Rural renewal: telcos and sustainable energy in Africa

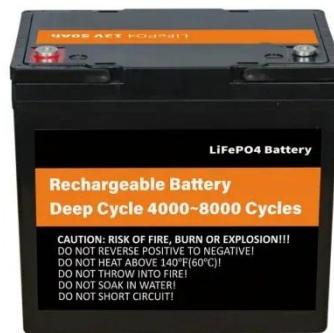
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Green Communications



ABSTRACT: Green communication is an innovative research area to find radio communication and networking solutions that can significantly improve energy efficiency and ...

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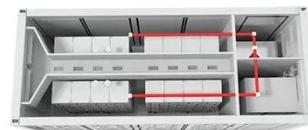
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It contributes to global environment improvement and achieves commercial benefits for telecommunication operators. The main goal of designing green base stations is to save ...

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