

## ContainerPower Energy Solutions

# Are there green mobile communication base stations in Venezuela



## Overview

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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.

When did telecommunications start in Venezuela?

In Venezuela the first law on telecommunications was approved in 1940. It identified the responsibility of the state in regard to telephone and other telecommunication systems, including radio and television services. Telephones - main lines in use: 7.332 million (2011) Telephones - mobile cellular: 28,782,000 (2011).

Are cellular network operators moving towards green cellular BS?

Figure 10 reveals that many cellular network operators in the world have still not shifted toward green cellular BS. Most of these operators are located in developing countries with limited electricity supply and unreliable electric grids. The financial issues in these countries must be investigated further. 4.5.

What is a green cellular network?

Most studies on green cellular networks have adopted ideal models. As its name implies, the green communication initiative aims to make cellular networks “greener” by reducing their power consumption using the aforementioned approaches.

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.

What is mobile communication?

Mobile communication is among the most successful technological innovations in modern history. Cellular networks have developed significantly over the last five years and now offer data-oriented services that include, but are not limited to, multimedia communication, online gaming, and high-quality video streaming [ 1 ].

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