

## Kongres Container

# What are the wind power sources for Suriname s 5G communication base stations



## Overview

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What is the new perspective in sustainable 5G networks?

The new perspective in sustainable 5G networks may lie in determining a solution for the optimal assessment of renewable energy sources for SCBS, the development of a system that enables the efficient dispatch of surplus energy among SCBSs and the designing of efficient energy flow control algorithms.

How will a 5G base station affect energy costs?

According to the mobile telephone network (MTN), which is a multinational mobile telecommunications company, report (Walker, 2020), the dense layer of small cell and more antennas requirements will cause energy costs to grow because of up to twice or more power consumption of a 5G base station than the power of a 4G base station.

Is re technology a viable solution for 5G mobile networks?

The major observations of this section are described as follows: 1. RE generation sources are a practical solution for 5G mobile networks. For SCNs, the RE technology is a viable and sustainable energy solution. RE technology can produce enough renewable energy to power SCBSs.

How do cellular base stations reshape non-uniform energy supplies and energy demands?

These strategies use bidirectional energy flow to reshape the non-uniform energy supplies and energy demands over mobile networks. A joint spectrum and energy sharing method is presented in Guo et al. (2014b) between cellular base stations to minimize the OPEX.

Will a large number of SCBs save energy in 5G networks?

The extensive deployment of a large number of SCBSs in 5G networks, the energy-saving will be reversed because of extra energy consumed by newly

deployed SCBSs (Cai et al., 2016). 4.4. Radio resources management.

What technologies are used in 5G networks?

Emerging mobile network and computing technologies The massive MIMO, mm-Wave, and UDN are considered promising technologies in 5G networks. These technologies may be used parallel to obtain the full benefits of directional beam-widths, large capacity, and broad coverage.

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