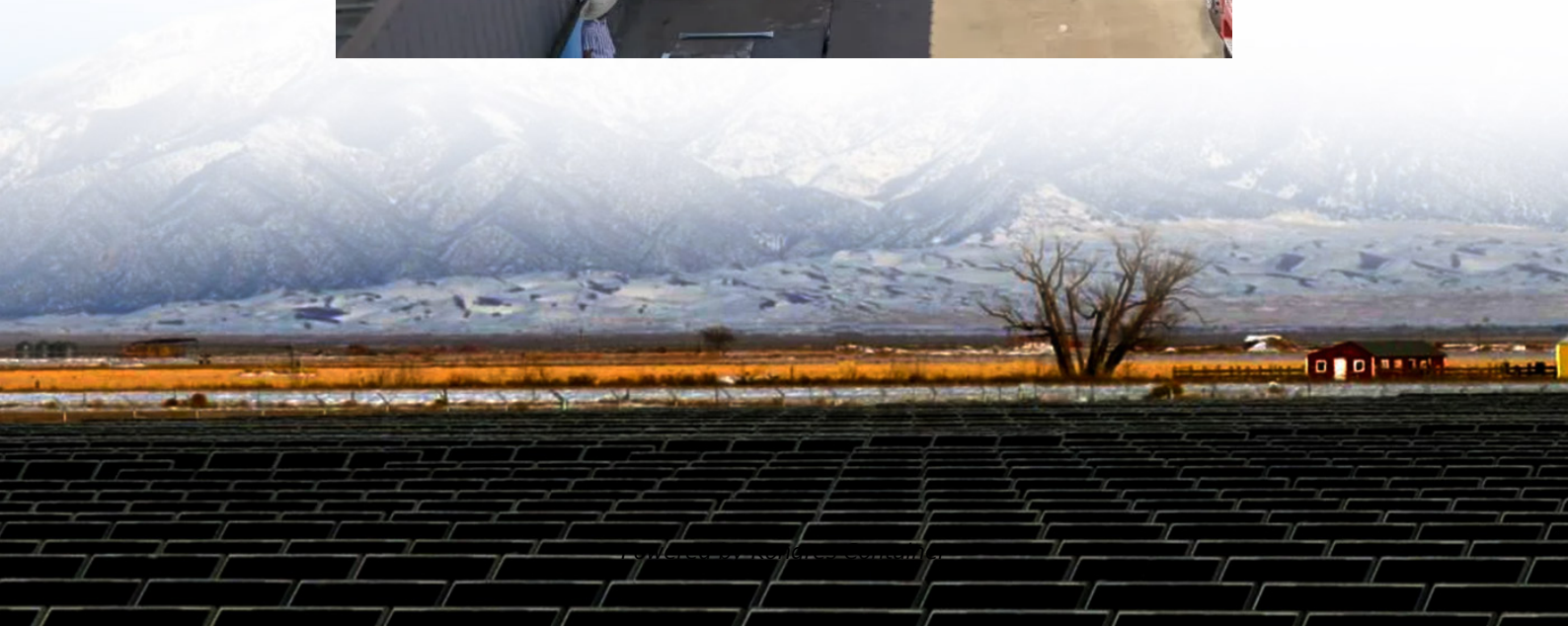


## Kongres Container

# Is 5G base station considered a new energy source



## Overview

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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.

What are the advantages of re in 5G mobile networks?

There are several potential advantages of RE in 5G mobile networks. First, for the network operator, RE can reduce the cost of energy consumption by deploying solar or wind energy base stations. RE enabled BSs can use solar energy for operation in the daytime, along with storing it in rechargeable batteries.

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

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. It is predicted that 20% of carbon dioxide emissions will be reduced in the ICT industry by deploying RE techniques to SCNs.

How to reduce energy consumption in a 5G access network?

An analytical model was developed for the 5G access network, which

considers the number of active SCNs and puts other small cells into sleep mode and two backhaul energy-efficient solutions mmWave and passive optical network are presented to reduce the energy consumption of the network.

How will 5G BS work?

System planning and maintenance complexity There will be a significant change in the functionality and feature of 5G BSs. The conventional resource on-demand techniques will no longer be as effective as they are in 3G or 4G systems. In 5G, BSs will operate in a cloud radio access network (C-RAN) or/and mmWave network.

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