

What kind of green communication base station does Sudan use





Overview

- : directly controlled by the Sudanese Government (2007); a private radio station is in operation (2007); 22 AM and 1 shortwave (HF) broadcast stations.
- : 13.7 million. • : directly controlled by the Sudanese Government (2007); 95 broadcast and relay stations.

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.

What is the telephone system like in Sudan?

The telephone system in Sudan is well equipped by regional standards, but barely adequate and poorly maintained by modern standards. There were about 75,000 fixed telephone lines in use (serving 6,000 inhabitants) in the 1990s, but the World Factbook estimated that there were 400,000 by 2000. About 40 percent of the fixed lines are in Khartoum.

What is Telecommunications in Sudan?

Telecommunications in Sudan includes fixed and mobile telephones, the Internet, radio, and television. Approximately 12 million out of 45 million people in Sudan use the Internet, mainly on smartphones and mobile computers. Sudan had telecommunication services as early as 1897.

Does a green wireless network reduce the energy consumption of base stations?

The measured results revealed that the proposed model reduces the energy consumption of base stations by up to 18.8% as compared with the traditional static BSs, which is a step forward towards the implementation of green wireless communication. 1. Introduction.

What was the state of Telecommunications in Sudan during 1994?



Despite many development plans and efforts, the state of telecommunication sector in the country remained extremely poor through 1994. At that time, Sudan had one of the lowest penetration rates (0.23%) even by regional standards. [citation needed].

How much money does Sudan need for a telecommunications network?

Submissions are through the Ministry of Foreign Affairs (MoFA) and reviewed by the Sudan National Telecommunications Corporation (NTC). The ETC requires US\$5.7 million to address scaled-up communication needs in Sudan in 2024.



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[Sudan VHF Air Ground Communication Stations Market \(2025 ...](#)

Historical Data and Forecast of Sudan VHF Air Ground Communication Stations Market Revenues & Volume By Type for the Period 2021-2031 Historical Data and Forecast of Sudan ...

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Telecommunications in Sudan

In opposition to the official broadcast network, the Sudan People's Liberation Army operated its own clandestine radio station, Radio SPLA, from secret transmitters within the country and ...

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[Effects of Base Station Radiations in Sudan](#)

Abstract: radiation caused by the electromagnetic fields (EMFs) of radio frequencies (RF) generated by the telecommunication system is one of the greatest environmental problems of ...

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[Connecting in Crisis: WFP's Remote Solution Safeguards ...](#)

The goal was to provide the UN Department of Safety and Security (UNDSS) in Nairobi with a plug-and-play system to communicate with and support users in Sudan. The ...



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Solar Communication Base Station

Solar energy communication base station is a kind of communication base station powered by photovoltaic power generation technology. This kind of base station is very reliable, safe and ...

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Energy saving technique and measurement in green wireless ...

The measured results revealed that the proposed model reduces the energy consumption of base stations by up to 18.8% as compared with the traditional static BSs, ...

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What is 5G Base Station?

A 5G base station, also known as a 5G NodeB (gNB) in the 3GPP (3rd Generation Partnership Project) standards, is a radio access point that connects user equipment (such as 5G - ...

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Communications in Sudan

Sudan was embroiled in two prolonged civil wars during most of the remainder of the 20th century. These conflicts were rooted in northern economic, political, and social domination of ...

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Sudan Infrastructure, power, and communications, Information ...

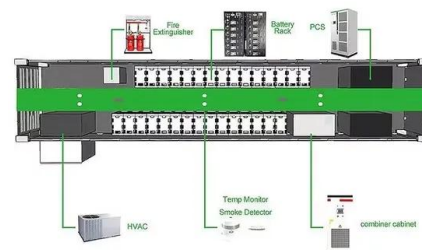
Such power stations could use solar or wind energy. The telephone system in Sudan is well equipped by regional standards, but barely adequate and poorly maintained by modern ...

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Airborne Base Stations Bring Back Connectivity

When a major typhoon swept through Hainan Province in September 2024, Haikou City and Wenchang City suffered heavy damage, transportation was blocked and power and ...

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Energy saving in 5G mobile communication through traffic driven ...

The energy hungry device of mobile communication; Radio Access Network (RAN) is a part of Base Stations, which consumes around two third of the total energy of the cellular ...

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Connecting in Crisis: WFP's Remote Solution Safeguards Communication

The goal was to provide the UN Department of Safety and Security (UNDSS) in Nairobi with a plug-and-play system to communicate with and support users in Sudan. The ...

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Telecommunications in Sudan

OverviewRadio and televisionPre-privatization era (up to 1994)Privatization era (1994 and beyond)TelephonesInternetInternet service providers (ISPs)See also

o Radio: directly controlled by the Sudanese Government (2007); a private radio station is in operation (2007); 22 AM and 1 shortwave (HF) broadcast stations. o Radio sets: 13.7 million. o TV: directly controlled by the Sudanese Government (2007); 95 broadcast and relay stations.

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Energy saving technique and measurement in green wireless communication

The measured results revealed that the proposed model reduces the energy consumption of base stations by up to 18.8% as compared with the traditional static BSs, ...

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Survey of Green Radio Communications Networks: Techniques ...

In this paper, we present a brief review of the techniques that have been used recently to improve energy efficiency, such as energy-efficient power amplifier techniques, ...



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Energy-Efficient Base Stations , part of Green Communications

This chapter aims a providing a survey on the Base Stations functions and architectures, their energy consumption at component level, their possible improvements and the major problems ...

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Green and Sustainable Cellular Base Stations: An Overview and ...

Energy efficiency and renewable energy are the main pillars of sustainability and environmental compatibility. This study presents an overview of sustainable and green cellular ...

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