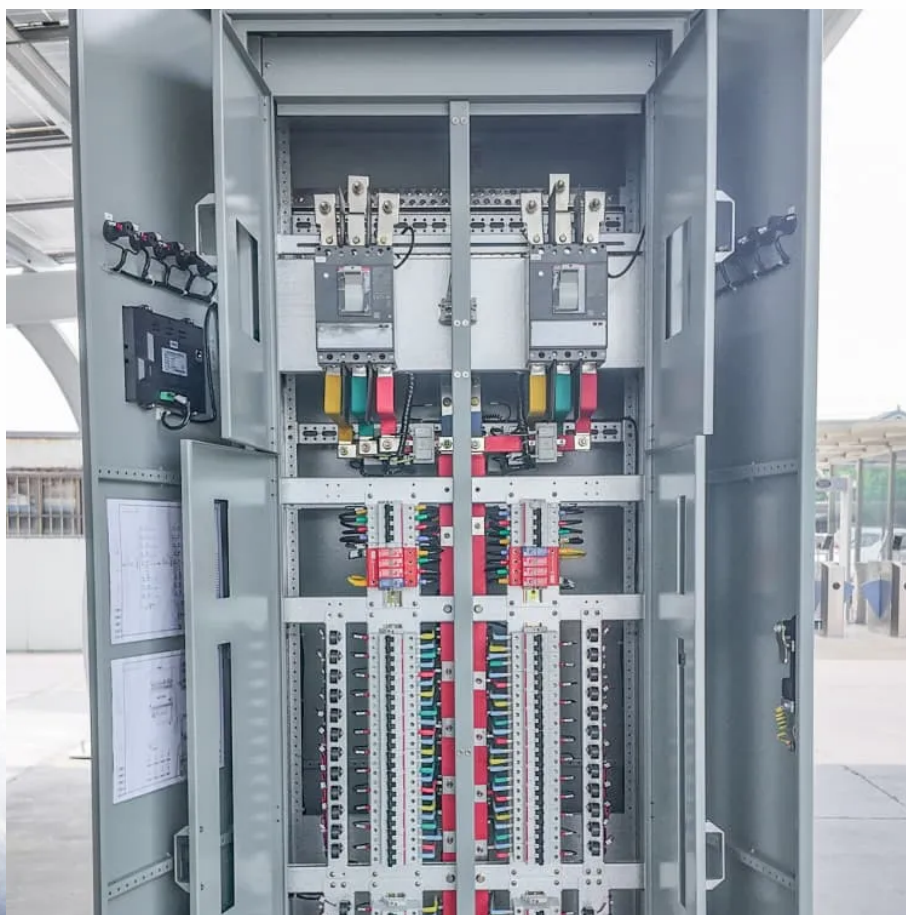


Equatorial Guinea Communications 5G Base Station AI Energy Saving Project





Overview

Is ubiquitous global communication possible in Equatorial Guinea?

Enabling Ubiquitous Global Communications in Equatorial Guinea Via the Transformation of Getesa. Am. J. Eng. Technol.

Why did GETESA become a national mobile network of Equatorial Guinea?

This paper focuses on the modernization of the first national Mobile Network of Equatorial Guinea, called GETESA. The government's decision to invest and take full control of the network was motivated by the lack of network quality, which had poor capacity, with 69% of the network coverage Received-Signal-Code-Power (RSCP) below 95dBm.

What is the energy consumption of a 5G network?

The energy consumption of 5G networks is one of the pressing concerns in green communications. Recent research is focused towards energy saving techniques of base stations (BSs). BSs are one of the most power consuming elements of a 5G network. It is important to model their energy consumption for analyzing overall energy efficiency of a network.

What was the first national mobile network of Equatorial Guinea?

This paper focuses on the modernization of the first national Mobile Network of Equatorial Guinea, called GETESA. Equatorial Guinea has three telecommunication companies: GETESA, Muni and Gecomsa. Getesa is the largest and the historical Equatorial Guinea telecommunication company established in 1987.

How many telecommunication companies are in Equatorial Guinea?

Equatorial Guinea has three telecommunication companies: GETESA, Muni and Gecomsa. Getesa is the largest and the historical Equatorial Guinea telecommunication company established in 1987. The Government of Equatorial Guinea holds 60% of the company whereas France Cable held 40%



until it transferred its shares to Orange in 2010.

Can network energy saving technologies mitigate 5G energy consumption?

This Technical Report explores how network energy saving technologies, such as carrier shutdown, channel shutdown, symbol shutdown etc., that have emerged since the 4G era, can be leveraged to mitigate 5G energy consumption.



Equatorial Guinea Communications 5G Base Station AI Energy Saving



Enabling Ubiquitous Global Communications in Equatorial Guinea ...

The Swap from 2G to 3G is at 89% with 134 modernized base station while the Roll-Out of 4G is at 94% with 87 LTE base stations implemented. The modernization project ...

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Intelligent Energy Saving Solution of 5G Base Station Based on

This paper introduces the basic energy-saving technology of 5G base station, and puts forward the intelligent energy-saving solutions based on artificial intelligence (AI) and big data ...

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An Intelligent Energy Saving Strategy Recommendation Method of 5G Base

In order to find a better model of energy saving for 5G base stations to reduce energy consumption, this paper proposes an intelligent energy saving strategy re

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Evaluation of the power-saving effect of 5G base station based ...

In this paper, a framework is developed to study the impact of different power model assumptions on energy saving in a 5G separation architecture



comprising high power ...

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Energy efficiency in 5G systems: A systematic literature review

Therefore, a great way to improve Energy Efficiency is by establishing Energy Efficient base stations then switching off as many base stations as you can. It is essential to ...

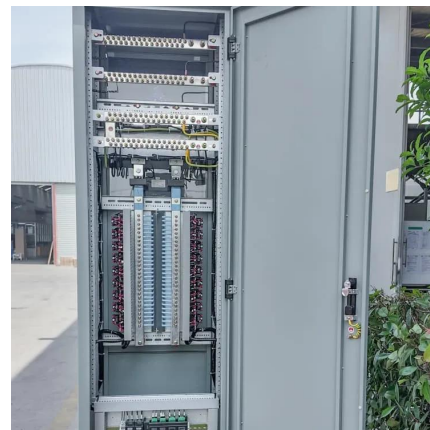
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Evaluation of the power-saving effect of 5G base station based on AI

In this paper, a framework is developed to study the impact of different power model assumptions on energy saving in a 5G separation architecture comprising high power ...

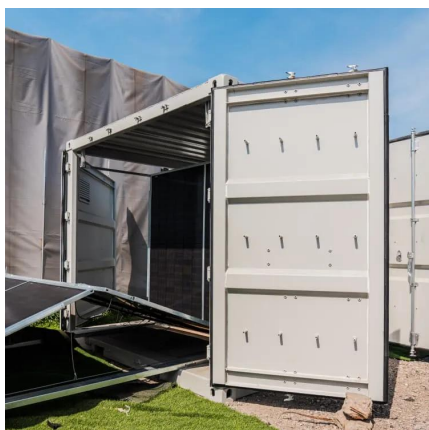
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Enabling Ubiquitous Global Communications in Equatorial ...

Provide a Multi-mode base station with Software Defined Radio (SDR) RF modules in order to allow flexible deployment of new RAT technologies in the future and shorten the ...

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(PDF) Enabling Ubiquitous Global Communications in Equatorial Guinea

The modernization project has transformed GETESA to be a more effective and profitable company. This modernization program has had a positive effect on the economy of ...

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Enabling Ubiquitous Global Communications in Equatorial ...

The Swap from 2G to 3G is at 89% with 134 modernized base station while the Roll-Out of 4G is at 94% with 87 LTE base stations implemented. The modernization project ...

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Final draft of deliverable D.WG3-02-Smart Energy Saving of ...

Smart energy saving of 5G base stations: Based on AI and other emerging technologies to forecast and optimize the management of 5G wireless network energy consumption

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Energy Saving Technology of 5G Base Station Based on Internet ...

For time and space constraints, 5G base stations will have more serious energy consumption problems in some time periods, so it needs corresponding sleep strategies to ...

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[Nokia and Elisa modernize network for Advanced 5G era](#)

The comprehensive deal, which will cover both Estonia and Finland, will prepare Elisa's network for the Advanced 5G era supporting ultra-fast speeds and low latency at near-instantaneous ...

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[Power Consumption Modeling of 5G Multi-Carrier Base ...](#)

In this paper, we present a power consumption model for 5G AAUs based on artificial neural networks. We demonstrate that this model achieves good estimation performance, and it is ...

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Energy Saving Technologies and Best Practices for 5G Radio ...

This article identifies energy-saving potential of the fifth generation (5G) Radio Access Network, and describes main energy-saving principles and technologies. It explores how to use network ...

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AI-based energy consumption modeling of 5G base stations: an ...

The energy consumption of 5G networks is one of the pressing concerns in green communications. Recent research is focused towards energy saving techniques of base ...

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AI-based energy consumption modeling of 5G base stations: an energy

The energy consumption of 5G networks is one of the pressing concerns in green communications. Recent research is focused towards energy saving techniques of base ...

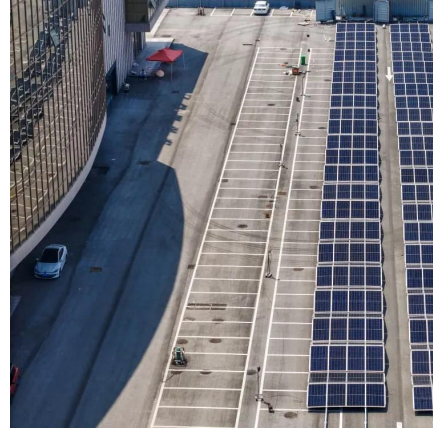
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Optimal energy-saving operation strategy of 5G base station with

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