Equatorial Guinea Communications 5G Base Station AI Energy Saving Project

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To further explore the energy-saving potential of 5 G base stations, this paper proposes an energy-saving operation model for 5 G base stations that incorporates ...

This project addresses the critical challenge of energy consumption in 5G networks, specifically in Base Stations (BSs), which account for over 70% of the total energy usage.

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

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 ...

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 ...

In wireless cellular networks, optimising the energy efficiency (EE) of base stations (BSs) has been a major architectural challenge. The BSs are major consumers of energy ...

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 ...

The traditional power-saving effect evaluation scheme of Active Antenna Unit (AAU) is complicated, leading to errors in the final evaluation results possibly. This paper ...

Based on the measurements collected from O-CU/O-DU/O-RU, the energy saving techniques assisted by AI/ML automatically switch on/off certain RF channels and deploys massive MIMO ...

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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 ...

Some energy-saving technologies developed since the fourth generation (4G) era are explained in detail, while artificial intelligence (AI) and big data technology are introduced ...

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