

# Slovenia 5g base station power-on time





## Overview

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Can 3GPP reduce base station energy consumption in 5G NR BS?

Aiming at minimizing the base station (BS) energy consumption under low and medium load scenarios, the 3GPP recently completed a Release 18 study on energy saving techniques for 5G NR BSs . A broad range of techniques was evaluated in terms of the obtained network energy saving (NES) gain and their impact to the user-perceived throughput (UPT).

What is a 5G base station energy consumption prediction model?

According to the energy consumption characteristics of the base station, a 5G base station energy consumption prediction model based on the LSTM network is constructed to provide data support for the subsequent BSES aggregation and collaborative scheduling.

How accurate is 5G base station energy consumption prediction model based on LSTM?

- The 5G base station energy consumption prediction model based on LSTM proposed in this paper takes into account the energy consumption characteristics of 5G base stations. The prediction results have high accuracy and provide data support for the subsequent research on BSES aggregation and optimal scheduling.

What is 5G base station load forecasting technology?

The research on 5G base station load forecasting technology can provide base station operators with a reasonable arrangement of energy supply guidance, and realize the energy saving and emission reduction of 5G base stations.



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### [A Power Consumption Model and Energy Saving Techniques for 5G ...](#)

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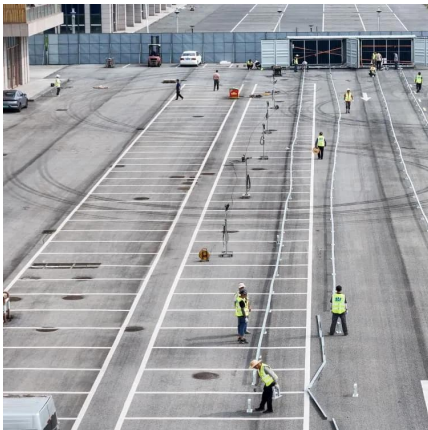
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Feb 13, 2025 · However, the uncertainty of distributed renewable energy and communication loads poses challenges to the safe operation of 5G base stations and the power grid. ...



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Feb 22, 2024 · Abstract To ensure the safe and stable operation of 5G base stations, it is essential to accurately predict their power load. However, current short-term prediction ...



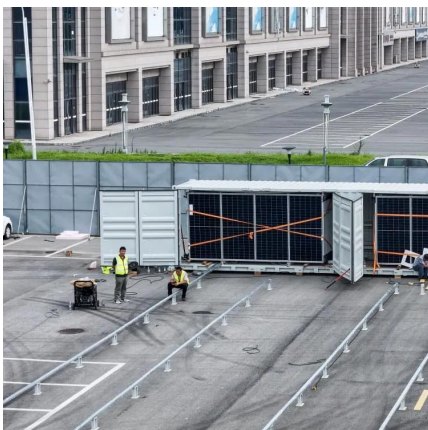
### [Final draft of deliverable D.WG3-02-Smart Energy Saving ...](#)

May 7, 2021 · Technical Report ITU-T Smart Energy Saving of 5G Base Station: Based on AI and other emerging technologies to forecast and optimize the management of 5G wireless network ...



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