



MODERNIZATION SOLAR

Distribution of green base stations for 5G communication in Riga





Overview

What is the goal of 5G in Latvia?

The aim is that: 50% 5G coverage in all large urban areas (in Latvia - Riga, Jelgava, Liepāja, Daugavpils) and all land transport arteries. The Ministry of Transport prepared the national 5G implementation guide in 2020.

What is a 5G base station?

At the same time, a large number of 5G base stations (BSs) are connected to distribution networks, which usually involve high power consumption and are equipped with backup energy storage, giving it significant demand response potential.

What will a 5G agreement mean for Riga Freeport?

The signed memorandum of understanding with the Riga Freeport fleet will allow innovative 5G technologies to promote digitalization of services provided in ports, modernization of technical equipment and fleet, provision of real-time communication between ships and with ports, development of autonomous solutions, their implementation and use.

What is a collaborative optimal operation model of 5G base stations?

Afterward, a collaborative optimal operation model of power distribution and communication networks is designed to fully explore the operation flexibility of 5G base stations, and then an improved distributed algorithm based on the ADMM is developed to achieve the collaborative optimization equilibrium.



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[Latvian Communications Green Base Station Construction Cost](#)

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Kenya Communications Green Base Station Equipment Safaricom, the largest mobile operator in Kenya, had 1,700 base stations that covered 80% of the population. These base stations were ...

[5G technology takes several steps forward in Latvia](#)

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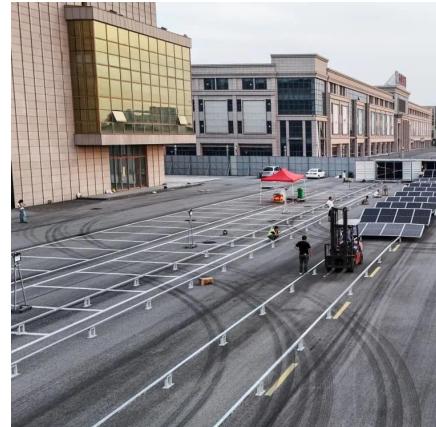
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Collaborative optimization of distribution network and 5G base stations

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