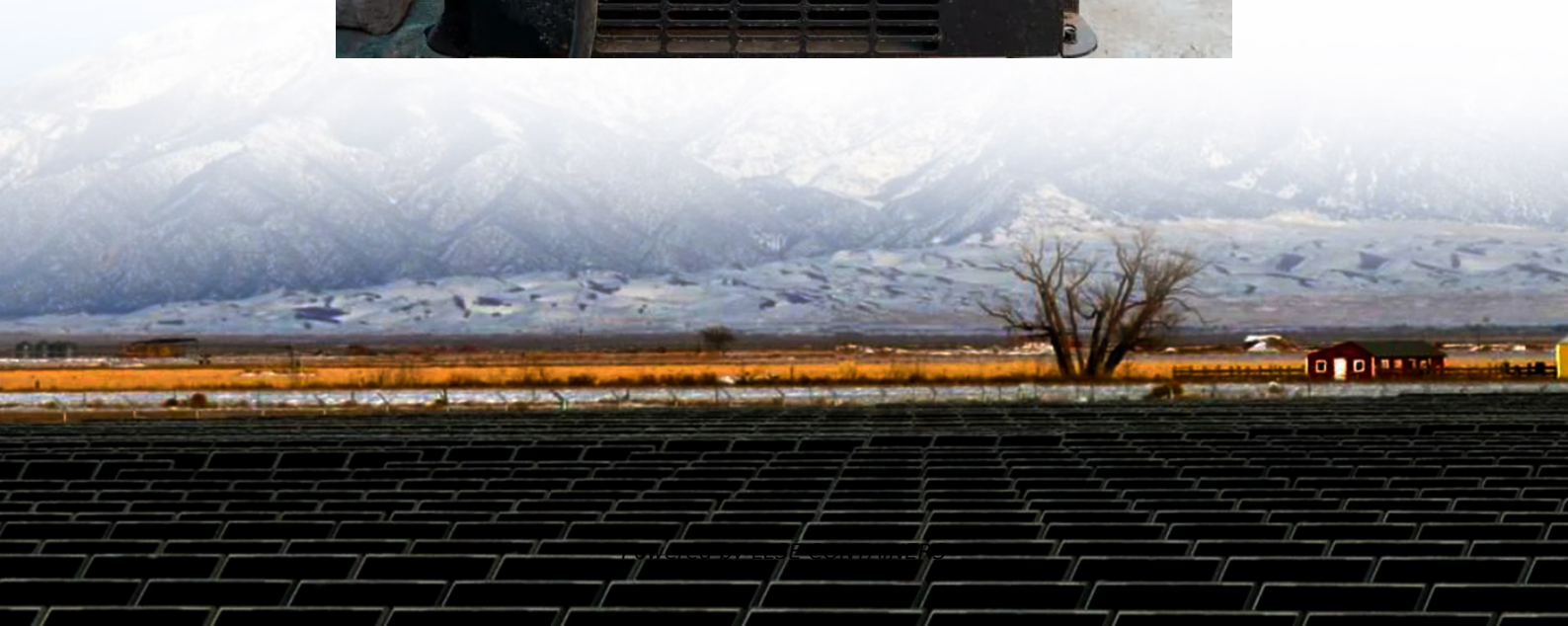


# Estonia 5g base station electricity





## Overview

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What is 5G base station?

1. Introduction 5G base station (BS), as an important electrical load, has been growing rapidly in the number and density to cope with the exponential growth of mobile data traffic . It is predicted that by 2025, there will be about 13.1 million BSs in the world, and the BS energy consumption will reach 200 billion kWh .

How to evaluate a 5G energy-optimised network?

To properly examine an energy-optimised network, it is very crucial to select the most suitable EE metric for 5G networks. EE is the ratio of transmitted bits for every joule of energy expended. Therefore, while measuring it, different perspectives need to be considered such as from the network or user's point of view.

How does mobile data traffic affect the energy consumption of 5G base stations?

The explosive growth of mobile data traffic has resulted in a significant increase in the energy consumption of 5G base stations (BSs).

Will massive MIMO base stations consume less energy than 4G base stations?

ase 5G energy efficiency:As massive MIMO technology develops, its energy efficiency ma also improve over time. Indeed, the MAMMOET project has predicted that future massive MIMO base stations will consume less energy than 4G base stations, despite the fact that they wi



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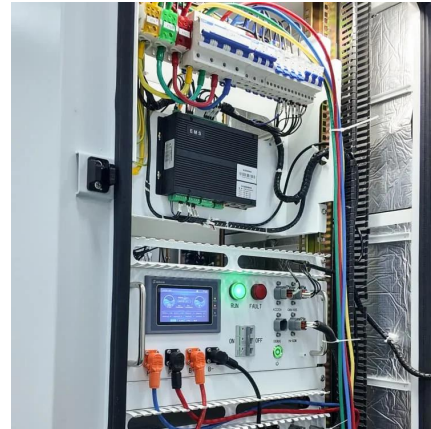
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