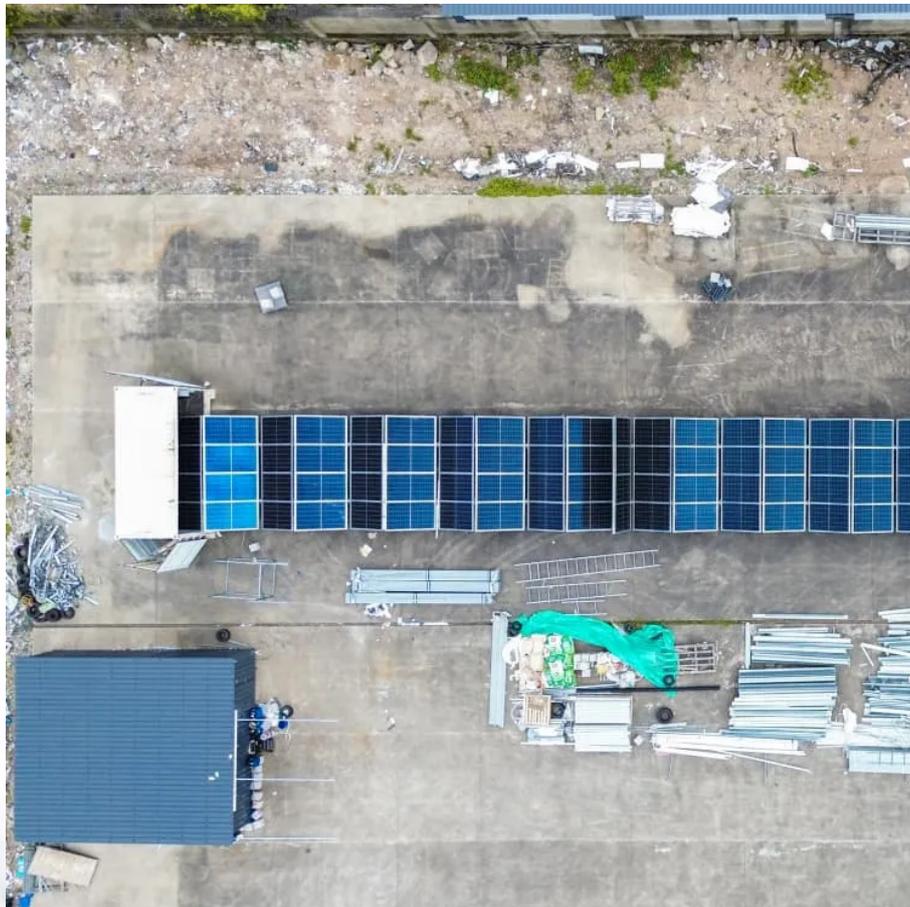


## Kongres Container

# Estonian Communications Green Base Station Development



## Overview

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Why should Estonia invest in green technology?

These technologies have the potential not only to address Estonia's own challenges in the green transition, but also offer opportunities for the Estonian technology sector to develop and market their applications globally. Estonia's greatest opportunities lie in the development of green technology and its export to foreign markets.

Does Estonia need a competitive policy of support for green technology?

Developing green technology needs a competitive policy of support. State support in Estonia for research and development in the private sector has been quite unstable over time, varying in the range of 6–20 million euros a year, which is considerably low on an international scale.

What is the vision for telecommunications in Estonia?

To implement the vision, three specific goals have been set: By 2030, ultrafast, reliable and affordable telecommunications connections should be available in Estonia irrespective of the location, making it possible to create and use innovative services. All should have access to connections of at least 100 Mbps which can be increased up to 1 Gbps.

How much green investment is needed in Estonia?

The estimated total annual green investment needed in Estonia is around 4% of GDP a year until 2030, 2% of GDP in 2031–2040, and up to 1% of GDP in 2041–2050. While the share of companies in Estonia involved in green investment is similar to that of the European Union, the current investment amounts fall short of meeting the required levels.

Are green cellular base stations sustainable?

This study presents an overview of sustainable and green cellular base stations (BSs), which account for most of the energy consumed in cellular

networks. We review the architecture of the BS and the power consumption model, and then summarize the trends in green cellular network research over the past decade.

What are Estonia's greatest opportunities?

Estonia's greatest opportunities lie in the development of green technology and its export to foreign markets. The experts involved in this research did not consider building factories for chips or cultivated meat in Estonia to be realistic because of the massive amount of investment required.

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