

## **PDEOZE PowerContainer**

# **How much solar power is used in Estonia**



## Overview

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Estonia added a record 513 MW of new solar capacity in 2024, bringing its total installed PV capacity to more than 1.3 GW, according to the Estonian Chamber of Renewable Energy (Eesti Taastuvenergia Koda). What type of energy is used in Estonia?

Renewable energy here is the sum of hydropower, wind, solar, geothermal, modern biomass and wave and tidal energy. Traditional biomass – the burning of charcoal, crop waste, and other organic matter – is not included. This can be an important energy source in lower-income settings. Estonia: How much of the country's energy comes from nuclear power?

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Why should Estonia invest in nuclear energy?

France's example of having nearly 70% of its electricity from nuclear power showcases the potential to diversify energy sources. By considering strategic investments in wind, solar, and nuclear energy, Estonia can further transition towards a sustainable, clean energy future while reducing dependency on fossil fuels.

Does Estonia have a low-carbon electricity landscape?

Historically, the evolution of Estonia's low-carbon electricity landscape has experienced various ebbs and flows. In the late 2000s and early 2010s, biofuels played a crucial role, with incremental gains in electricity generation until some setbacks in the mid-2010s.

What is Estonia's electricity mix?

For the year 2024/2025 the data source is aggregated data from the last 12 months (2024-09 to 2025-08) . For the months 2024-09 to 2025-08 the data source is ENTSOE . Estonia's electricity mix includes 22% Oil, 21% Wind and 17% Solar. Low-carbon generation peaked in 2024.

How can Estonia bolster low-carbon electricity generation?

To bolster low-carbon electricity generation, Estonia can look at augmenting its existing wind and solar capacity, seeing that these sources already contribute significantly to the country's clean energy mix.

How much electricity is consumed in Estonia in 2025?

Examining the growth of electricity consumption in Estonia presents a mixed picture. The most recent figures for 2025 show an electricity consumption of 4795 kWh per person, which is substantially lower compared to the historic peak of 11690 kWh per person recorded back in 1986, a decrease that raises concerns.

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Distribution of solar potential Distribution of wind potential Annual generation per unit of installed PV capacity (MWh/kWp) Wind power density at 100m height (W/m<sup>2</sup>)

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