

# **Solar power generation from solar panels in Estonia**





## Overview

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Is Estonia a good country for solar PV?

Estonia ranks 58th in the world for cumulative solar PV capacity, with 414 total MW's of solar PV installed. Each year Estonia is generating 311 Watts from solar PV per capita (Estonia ranks 13th in the world for solar PV Watts generated per capita). [ source].

Are there incentives for businesses to install solar energy in Estonia?

Yes, there are incentives for businesses wanting to install solar energy in Estonia. The Estonian government offers a range of financial support and tax incentives for businesses that invest in renewable energy sources such as solar power. These include grants, loans, and tax deductions.

How much energy does a solar PV system produce in Tallinn?

Average 1.54kWh/day in Autumn. Average 0.50kWh/day in Winter. Average 3.97kWh/day in Spring. To maximize your solar PV system's energy output in Tallinn, Estonia (Lat/Long 59.433, 24.7323) throughout the year, you should tilt your panels at an angle of 49° South for fixed panel installations.

How to optimize solar generation in Tallinn Estonia?

Assuming you can modify the tilt angle of your solar PV panels throughout the year, you can optimize your solar generation in Tallinn, Estonia as follows: In Summer, set the angle of your panels to 42° facing South. In Autumn, tilt panels to 61° facing South for maximum generation.



## Solar power generation from solar panels in Estonia



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### [Estonia deploys 513 MW of solar in 2024](#)

Feb 10, 2025 · 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 ...



### [Estimation of LCOE for PV electricity production in the Baltic ...](#)

Jun 1, 2025 · Moreover, solar energy is the most accessible renewable energy for households, shielding consumers from volatile energy prices [3]. Recent studies highlight PV systems as ...

### [Sunly secures loan to build 244MW solar PV park in Estonia](#)

Mar 12, 2025 · Image: Sunly. Estonian independent power producer (IPP) Sunly has secured a EUR62 million (US\$68 million) loan to build and operate a 244MW solar PV plant in



Estonia.



### [Solar PV Analysis of Tallinn, Estonia](#)

Aug 6, 2022 · Maximise annual solar PV output in Tallinn, Estonia, by tilting solar panels 49degrees South. Tallinn, Estonia (latitude: 59.433, longitude: 24.7323) offers varying ...



### [Estonia to expand solar-power production with EUR62 mln EIB, ...](#)

Nov 3, 2025 · EIB lends EUR31 million to Estonian renewable-energy company Sunly for a new solar park in the country, while SEB and Luminor will jointly contribute the same amount. 244 MW ...



### [Estonia to expand solar-power production with EUR62 million ...](#)

Mar 11, 2025 · The European Investment Bank (EIB), together with local commercial banks SEB and Luminor, is lending the Estonian renewable energy company Sunly EUR62 million to build ...





## ESTONIA TO EXPAND SOLAR POWER PRODUCTION WITH ...

Photovoltaic power generation from solar panels in Estonia In Estonia, the average annual electricity production from solar photovoltaic (PV) systems is approximately 950 kWh per kWp ...



## Estonia is rising to the top in solar energy production with ...

The company claims that its 2-in-1 roofing material with solar modules does not use aluminium frames and offers approximately 9% CO2 emission reductions compared to mainstream solar ...



## Estonia's Renewable Energy Boom: 2024 Investments

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## Techno-economic analysis and energy forecasting study of ...

Aug 15, 2022 · This study focuses on solar irradiance and energy generation potential in different regions of Estonia as a case study. Techno-economic analysis of possible solutions to use ...



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