

# Estonian Electricity and Solar Wiring



## Overview

As of the end of September, according to the data from Estonia's electricity system operator Elering, solar power plants accounted for 11.2 per cent of Estonia's total consumption in 2023, and considering the large developments currently underway, renewable energy. Residents of Saaremaa already produce nearly half of the electricity they consume locally. However, the solar energy boom has led to a situation where many areas can no longer accommodate new micro-producers. TSO Elektrilevi's large-scale investments in Saaremaa and Hiiumaa will add additional. Estonia's electricity sector is interconnected with regional energy markets, particularly through connections with Finland and Latvia. The dataset presented in this study contains one year (2023) of photovoltaic (PV) generation and energy meter power flow data. Learn about the market conditions, opportunities, regulations, and business conditions in Estonia, prepared by at U. Embassies worldwide by Commerce Department, State Department and other U. The Employer is Elering AS and contractors are Energex Energy Experts OÜ and EA Energianalyse a/s. Elering provided historical.



## Article Content

Feb 09, 2026

Solar PV Generation and Consumption Dataset of an Estonian ...

To gather this data, two Camille Bauer PQ1000 power quality monitoring units were installed on the PV and meter side wiring of the house. The paper thoroughly discusses the data collection process, the ...

Mar 07, 2026

Solar boom causes difficulties joining the grid on Estonia's ...

Residents of Saaremaa already produce nearly half of the electricity they consume locally. However, the solar energy boom has led to a situation where many areas can no longer ...

May 28, 2026

Electricity sector in Estonia

Estonia's electricity sector is interconnected with regional energy markets, particularly through connections with Finland and Latvia. The direct electrical interconnection with Finland was established in 2006 and was further strengthened by the Estlink 2 interconnector in 2014. Estonia joined the Nord Pool Spot market by 2012, securing its own price area within this regional electricity market. In 2018, oil shale constituted approximately 80% of Estonia's electricity consumption. By 2021, this figur...

Mar 31, 2026

Estonia Electricity Generation Mix 2025 | Low-Carbon Power Data

More than two-fifths (about 43%) of the electricity consumed in Estonia comes from low-carbon sources, with wind, biofuels, and solar energy all contributing significantly.

Jul 12, 2025

Estonia Renewable Energy Generation and Storage

Wind and solar power stand at the center of Estonia's renewable transformation. Onshore wind projects already contribute meaningfully to the grid, while offshore wind in the Baltic ...

Aug 02, 2025

Electricity sector in Estonia

Estonia's electricity sector is interconnected with regional energy markets, particularly through connections with Finland and Latvia. The direct electrical interconnection with Finland was ...

Aug 14, 2025

PowerPoint Presentation

Electrification increases the demand for renewable electricity Meeting the climate goals of the European Union and Estonia means that Estonia's electricity production will triple by 2050

Sep 12, 2025

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

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 differently ...

Jun 06, 2026

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

Estonia has seen a significant increase in its solar power capacity in 2022, becoming one of the leaders in solar power per capita among EU members. With growing ...

Feb 17, 2026

Within three years, solar power may meet half of Estonia's electricity ...

The company's main activity is creating and managing the infrastructure required for solar energy production and selling the electricity generated from its operations.

Oct 22, 2025

Study to determine Estonian electricity demand scenarios

The objective of the study is to determine Estonian electricity demand scenarios up to 2050, considering the increase of energy efficiency, economies organic growth and the electrification of fossil ...

Sep 29, 2025

Within three years, solar power may meet half of ...

The company's main activity is creating and managing the infrastructure required for solar energy production and selling the electricity ...

Jul 15, 2025

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

Estonia has seen a significant increase in its solar power capacity in 2022, becoming one of the leaders in solar power per capita among EU members. With growing investments and innovative startups, it ...

## Contact Us

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