

# Latvian rural solar power generation system





## Overview

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What is the main source of renewable electricity in Latvia?

Hydroelectric power is the main source of renewable electricity in Latvia, followed by solar, wind and biomass cogeneration plants. In 2024, solar power in Latvia grew over 3.1 times to 6.7% of total electricity, becoming the third-largest source, while wind reached a record 38 GWh and hydropower, despite a 16% drop, still provided 54%.

Who is responsible for the energy transition in Latvia?

Local authorities are responsible for municipal energy supply and renewable energy projects, with Latvia's energy transition guided by the National Energy and Climate Plan and the Energy Strategy 2050.

Is Latvia ready for a green energy transition?

Solar and wind energy production alone experienced an impressive 92% surge in 2023 compared to 2022, and this momentum shows no signs of slowing down. Building on these achievements, Latvia has set ambitious targets for its green energy transition.

What is Latvia's Energy Strategy 2050?

Latvia's Energy Strategy 2050 outlines major changes in renewable energy production and storage, with significant investments planned in wind, solar, biomass, and biogas, as well as in energy storage technologies like batteries and subsurface systems to ensure supply stability .



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### [Hybrid renewable energy systems for rural](#)

Jan 1, 2025 · This study presents a comprehensive review of state-of-the-art energy systems and spatially explicit modelling approaches aimed at identifying approaches suitable for planning ...

### [Targale Solar Park: 148 MW solar energy in Latvia's Ventspils ...](#)

Apr 28, 2025 · The overall solar generation capacity in Latvia currently stands at 600 MW. The solar park in Targale will significantly boost Latvia's solar energy generation, strengthening its ...



### [Ignitis Renewables expands green generation in the Baltics ...](#)

Jul 30, 2025 · Ignitis Renewables, an international green energy company, has completed its first solar project in Latvia where Varme solar farm, located in the Kuldiga municipality, has ...



### [Latvia: Latvenergo to deploy ...](#)

Feb 24, 2025 · A solar PV plant in Latvia that Latvenergo deployed via subsidiary Elektrum. Image: Latvenergo. Latvia state-owned utility and ...



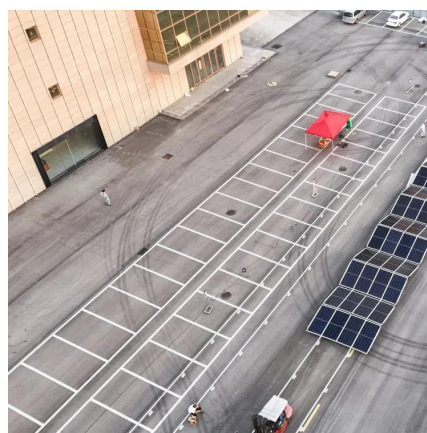
### [Solar energy generation tripled last year in Latvia / Article](#)

Feb 8, 2024 · The total electricity distribution system-connected solar generation capacity was 300 megawatts (MW) at the end of 2023, three times the year before when it was about 100 ...



### **European Energy to start construction on its first solar farm in Latvia**

Oct 3, 2024 · To date, Latvia has lagged behind its neighbors in the construction of solar energy parks. In 2023, Estonia's solar power capacity reached 822 MW, Lithuania's 1,165 MW, while ...



### [SUNOTEC Acquires 400MWp Solar. 600MWh BESS Project Site in Latvia](#)

Jul 13, 2025 · European renewable energy provider SUNOTEC has finalized the acquisition of SIA DSE Lazas Solar's solar and energy storage project in Latvia from Danish Sun Energy. This ...







### [Varme Solar Farm: Latvia's Largest Solar ...](#)

Aug 1, 2025 · The Varme facility features 142,000 bifacial solar panels, each with a 660 W capacity. These advanced panels capture sunlight from ...



### [Integration of renewable energy in the Latvian grid](#)

Sep 5, 2024 · From the quantitative results, recommendations are formulated. To perform the quantitative assessment, detailed grid simulations of the Latvian transmission system for ...

### [European Energy to start construction on its ...](#)

Oct 3, 2024 · To date, Latvia has lagged behind its neighbors in the construction of solar energy parks. In 2023, Estonia's solar power ...



### [Varme Solar Farm: Latvia's Largest Solar Project Powers Up](#)

Aug 1, 2025 · The Varme facility features 142,000 bifacial solar panels, each with a 660 W capacity. These advanced panels capture sunlight from both sides, maximizing energy ...



### [Saules paneli , Solar Energy Latvia , Latvia](#)

Laipni lūdzam Solar Energy Latvia! Vieta, kur Jūsu vēlmi īstenot nāpēcēsa tikai viena pētura. Mēs piedāvājam augstākas klases ...



### [Latvia's path to energy transition: Expanding ...](#)

Jun 19, 2025 · In Latvia, renewable energy sources account for a significant portion of the country's electricity generation, with a target of 57% by ...

### [Latvian Rural Photovoltaic Inverter Solutions Powering ...](#)

SunContainer Innovations - As Latvia's rural communities seek energy independence, photovoltaic inverters have become the backbone of solar-powered farms and homesteads. ...



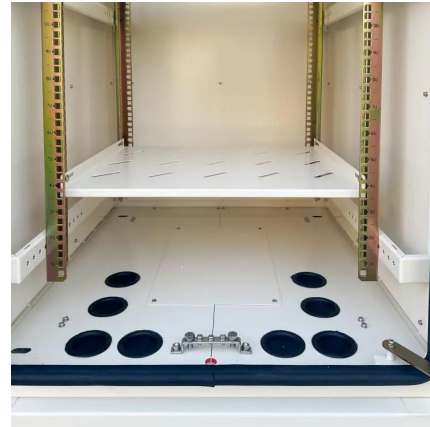
### [\(PDF\) Review of results of agro-photovoltaic ...](#)

Jun 22, 2021 · Agrivoltaics uses a land for both solar photovoltaic (PV) electricity generation and agriculture, increasing overall productivity of the ...



## KeyfactsEnergy

Aug 7, 2025 · After having completed the first divestiture of a 265 MWp PV solar plant with Latvian state-owned utility Latvenergo in Nov 2024, we have now completed the second utility-scale ...



### [Latvia's path to energy transition: Expanding renewable energy ...](#)

Jun 19, 2025 · In Latvia, renewable energy sources account for a significant portion of the country's electricity generation, with a target of 57% by 2030 [1]. Hydroelectric power is the ...

### [Power System state , AST](#)

6 days ago · Power System state" Solar Power Forecast - TSO " - a solar generation forecast developed by AST on the electricity injected into the grid from solar power plants, including ...



### [A review of hybrid renewable energy systems: Solar and...](#)

Dec 1, 2023 · The pressing challenge of climate change necessitates a rapid transition from fossil fuel-based energy systems to renewable energy solutions. While significant progress has ...







## Power Technology

Jul 9, 2025 · Power purchase agreement advisors were OurNewEnergy during negotiations on behalf of Danish Sun Energy. Danish Sun Energy partner and CEO Carsten Tilm stated: "We ...



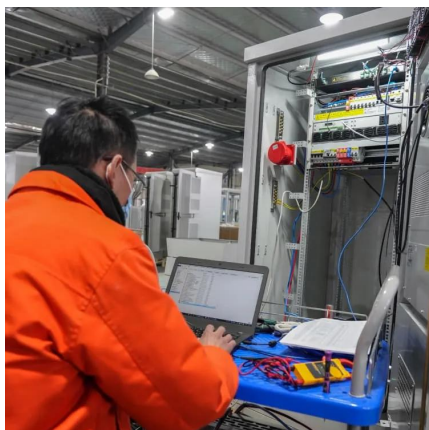
### [Targale Solar Park: 148 MW solar energy in ...](#)

Apr 28, 2025 · The overall solar generation capacity in Latvia currently stands at 600 MW. The solar park in Targale will significantly boost ...



### [Rural Solar Power: How Decentralized ...](#)

Feb 12, 2025 · Decentralized energy systems are revolutionizing power distribution across the globe, offering a paradigm shift from traditional ...



### [Latvia - pv magazine International](#)

Jan 13, 2023 · A study estimating the economic viability of rooftop solar in Estonia, Latvia and Lithuania forecasts the levelized cost of electricity (LCOE) for PV systems in the Baltic States ...





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