

# **Latvian solar wind 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%.

How does wind energy work in Latvia?

Sun constantly creates an air flow in the atmosphere – wind – which captured can be used to produce electricity. Harnessing wind doesn't require any kind of extraction, transportation or combustion of any raw material. The source of wind energy is inexhaustible. And the good news is that wind is available in large quantities in Latvia. Eco friendly.

Is wind available in Latvia?

And the good news is that wind is available in large quantities in Latvia. Eco friendly There is no hazardous waste during the operation of the wind farm. Wind turbines operate by the wind turning the blades, which then rotate the shaft that is connected to the generator where the electricity is generated.

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.



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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 ...

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Latvia's renewables hit 73.4% share in power generation in ...

Sep 15, 2025 · Renewables output fell by 6.4% year-on-year to 4,643 GWh out of total generation of 6,322 GWh. Hydropower production dropped 15.4% to 3,210 GWh, while solar output more ...

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From Wind to Power: Unlocking Latvia's Renewable Energy ...

May 12, 2025 · In Latvia, according to 2024 data, the largest share of electricity is generated by hydropower plants (53 %), followed by thermal generation (29 %), with natural gas accounting ...

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Electricity generated from solar and wind power up by 92

Jun 9, 2024 · Moreover, wind power and solar power plants generated 92.5 % electricity more. Driven by the active installation of solar panels and development of solar parks, the amount of ...

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Latvia's path to energy transition: Expanding renewable ...

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 ...

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Solar energy in Latvia reaches saturation - Sadales tikls urges ...

Sep 9, 2025 · Solar energy generation in Latvia has reached market saturation, and overall electricity system should now focus on other types of production.

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Hybrid power generation system Latvia

Electricity will be the cornerstone of Latvia's energy transition. Latvia's hydro-dominated electricity system provides a favourable starting point to use clean electricity to decarbonise other ...

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Integration of renewable energy in the Latvian grid

Sep 5, 2024 · To perform the quantitative assessment, detailed grid simulations of the Latvian transmission system for representative operating points of demand and renewable generation ...

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Latvia's Booming Renewable Energy Sector

Latvia leads Europe in green energy with 43.5% renewables - solar parks, wind farms and sustainable use of natural resources

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### Green Energy in Latvia: The Rise of Solar and Wind Power

Aug 5, 2025 · The Latvian government actively encourages solar energy adoption through grants and incentives. Homeowners and small businesses can now install solar panels with reduced ...

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