



Latvian home solar power system

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%.

When will battery energy storage systems be installed in Latvia?

The most recent update regarding BESS installations is that in Tume and Rezekne, Latvia's transmission system operator "Augstsprieguma tīkli" (AST) in June 2025 installed battery energy storage systems with a combined capacity of 80 MW and 160 MWh, which will undergo testing until October 2025.

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.

Is Latvia ready for power to X & H2?

As can be seen, Latvia is currently focusing mainly on BESS, but research on the potential of power to x or power to H2 in Latvia is also being actively developed. Given Latvia's high share of renewable electricity, the need for electricity storage technologies will increase significantly.

The major advantage of solar / wind hybrid system is that when solar and wind power production are used together, the reliability of the system is enhanced. Additionally, the size of battery storage can ...

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Lithuania's SNG Solar is set to build a 100 MW solar plant in the port of Riga, Latvia. Upon completion, the facility will be one of the largest solar projects in the Baltics.

The developed guidelines promote a common understanding of the requirements of regulatory acts in the use of renewable energy resources and energy construction in the territory of ...

Various funding programs support rooftop solar PV installation, but concerns arise over the focus on suburban areas, neglecting densely populated cities. Amendments to electricity laws ...

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A solar system is more than just panels. All the components have to be sized together well to work properly. At A1SolarStore you can order a complete solar system that is ready to be installed. We offer systems ...



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Latvia has officially inaugurated the Varme solar farm, a significant 94 MW project developed by Ignitis Renewables. Spanning 101 hectares in the western region of Kuldiga, the farm ...

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Many assume Latvia's northern latitude and cloudy winters make solar power impractical. But thanks to high-efficiency monocrystalline panels, falling costs, and generous EU/Latvian incentives (like LIAA ...

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