

SolarTech Power Solutions

Latvian rural solar power generation system



Overview

What is Latvia's energy system?

Latvia's energy system is largely based on renewable resources, primarily hydropower from the Daugava River, supplemented by wind, solar, and biomass. While natural gas imports cover energy shortages, the country aims to increase wind and solar energy capacity, with significant progress already made in 2022.

Who manages the electricity grid in Latvia?

The electricity grid in Latvia, however, is primarily managed by Sadales tīkls, the largest distribution system operator that serves 99% of the country's territory. Both public and private energy companies, such as AST and Latvenergo, participate in the sector.

Why did PV systems increase in Latvia in 2022 & 2024?

Share of PV systems installed capacities. In Latvia, the installed solar photovoltaic (PV) capacity in single-family homes significantly increased in 2022 and 2024. This growth was largely driven by the availability of state support programs, the introduction of a net metering system, and rising electricity prices .

Does Latvia need a thermal power plant?

Until now, Latvia has relied on electricity generated by hydroelectric power plants (HPPs), and the country's overall policy also included the development of thermal power plants (TPPs), as natural gas was a relatively cheap resource.

How can Latvia meet EU climate goals?

Latvia is committed to increasing renewables and energy efficiency to meet EU climate goals. The National Energy and Climate Plan (NECP) outlines plans to modernize the grid, expand energy storage, and develop more wind and

solar capacity to hit higher renewable energy targets by 2030. Fig.2. Smart Energy System.

Does Lithuania have a solar power target?

In the Draft Updated NECP , Lithuania has raised its 2030 solar power capacity target by 500 %, aiming for 5.1 GW. Latvia aims to increase the share of renewable energy to 50 % by 2030, but the current NECP does not include specific solar targets.

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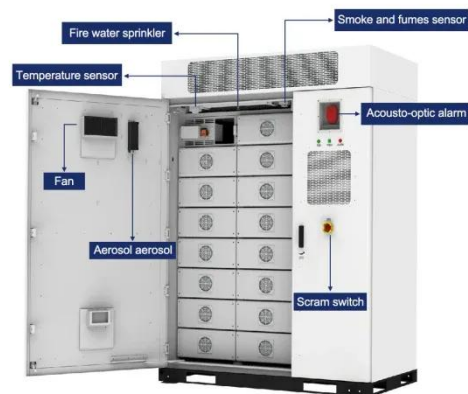


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Aug 5, 2025 · Solar power is gaining strong momentum and driving the green energy movement in Latvia. Technological advancements have made solar panels more accessible and ...

Danish Sun Energy sells large-scale co-located park with 400 MWp PV

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12.8V 100Ah



Estimation of LCOE for PV electricity production in the Baltic ...

Jun 1, 2025 · The results show that rooftop PV systems are economically viable, with median LCOE values of 0.08 EUR/kWh for Latvia and Lithuania and 0.09 EUR/kWh for Estonia at a 6 ...

Solar power generation by PV (photovoltaic) technology: A ...

May 1, 2013 · Solar power is the conversion of sunlight into electricity, either directly using photovoltaic (PV), or indirectly using concentrated solar power (CSP). The research has been ...



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Elektroenerģijas tirgus

apskats , AST

Mar 11, 2025 · The 3% decrease in Latvian electricity consumption is due to the installation of solar power for self-consumption by households and businesses, so the actual amount of ...



EUR 68 million investment in place for Ventspils solar farm

Mar 7, 2025 · The financing will increase the overall solar generation capacity in Latvia, which currently stands at 600 MW. Latvia's energy system significantly relies currently still on fossil ...

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 ...



Latvenergo acquires large-scale solar park in ...



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Integration of renewable energy in the Latvian grid

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Solar power company group Latvia

Latvian Solar Boom: Ignitis Group's Record-Breaking Portfolio Ignitis Group, a Lithuanian utility company, is set to begin construction on a 239 MW solar portfolio in Latvia, the largest of its ...



International Scientific Conference Engineering for Rural ...

Jun 9, 2024 · The REC potential to scale up RE in power generation is calculated for 76.6 GWh electricity in 2030, or 11.6% of the additional electricity from solar PV installations planned in ...

Latvenergo acquires large-scale solar park in ...

Nov 11, 2024 · Latvenergo AS has acquired 100% of the capital shares in DSE Aizpute Solar SIA to build a solar power plant with a total capacity of 265 MW by the end of 2025. The solar park ...



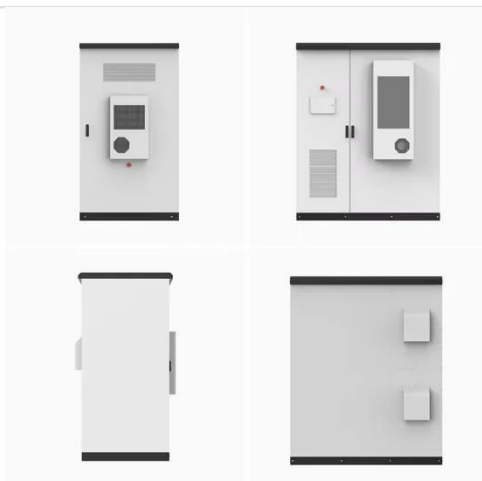
TRANSLATION: Latvia Rooftop Solar Country Profile



Apr 15, 2024 · Latvia aims to increase renewable energy sources (RES) to 50% by 2030, but lacks specific solar targets in its current National Energy and Climate Plan (NECP). While a ...

Potential assessment of photovoltaic power generation in ...

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