

SolarGrid Energy Solutions

Latvian commercial wind power generation system



Overview

What is WindWorks in Latvia?

The "WindWorks. Powering Latvia's energy future" event is a hybrid wind energy conference that brings together experienced international energy experts, stakeholders, and policy makers to discuss the future of wind energy in Latvia.

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.

What is Latvian Wind Energy Association?

Latvian Wind Energy Association is the voice of the growing wind industry in Latvia. Our trade association advocates for and supports the industry through an active communication with the decision makers on a national level, stakeholders and public. We facilitate creating a suitable legal framework for wind business in Latvia.

Does Latvia have an offshore wind farm?

Yes, Latvia has an offshore wind farm, as it is part of the joint project of the Latvian and Estonian offshore wind farm, which is included in the Latvian National Energy and Climate Plan for 2030.

How much electricity is produced in Latvia in 2022?

In 2022, 4 997 GWh of electricity were generated in Latvia (14.5 % fewer than in 2021), of which 3 783 GWh were produced from renewables (up by 1.7 % or 65 GWh compared to 2021). Last year also the volume of primary electricity produced by wind power plants increased – 190 GWh, which is 34.8 % (49

GWh) more than in 2021.

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Latvia - the best location to invest in smart ...

Latvia is Europe's 3rd largest manufacturer of renewable energy (Eurostat, 2019), thanks to harnessing its strong rivers in the form of clean, hydroelectric power.

Latvenergo concludes the largest wind farm development ...

May 24, 2024 · Latvenergo AS has acquired 100% in the Telšiai project of Utilitas Wind, which will already enable the company to start wind power generation with a capacity of 124 megawatts ...



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 ...

Latvia's Booming Renewable Energy

Sector

Latvia's leading energy provider, Latvenergo, also partnered up with the U.S. National Renewable Energy Laboratory to develop energy transformation ...



Executive summary - Latvia 2024 - Analysis

Aug 9, 2025 · The government will likewise need to clarify the role of natural gas co-generation plants in the energy mix over the long term, given their outsized ...

WPP development

New wind power plants make it possible to generate competitive, green and environmentally friendly electricity with profit and without subsidies in Latvia. ...



Wind power generation: A review and a research agenda

May 1, 2019 · The expansion of wind power generation requires a robust understanding of its variability and thus how to reduce uncertainties associated

with wind power output. Technical ...



Power electronics in wind generation systems

Mar 26, 2024 · This Review discusses the current capabilities and challenges facing different power electronic technologies in wind generation systems from single turbines to the system ...



Daily MAPE of Latvian wind power generation ...

Daily MAPE of Latvian wind power generation forecasts under 6-h lead time for each hour, Feb 2012 (wind speeds) and 500 MW of planned wind power.



A breath of fresh air

Jul 20, 2023 · Total wind power capacity installed in Latvia by end of 2018 is between 66 MW (official figure from Wind Europe) and 80 MW (unofficial estimate from the wind energy industry) ...



Wind Power , GE Vernova



6 days ago · At GE Vernova's Wind business, we're not just a leader in balancing reliability, affordability, and sustainability, we're working to make the world a better place, for today and ...

Wind power growing Latvia's renewable energy ...

Sep 6, 2023 · In 2022, 4 997 GWh of electricity were generated in Latvia (14.5 % fewer than in 2021), of which 3 783 GWh were produced from renewables (up ...



Eolus sells Latvia's largest wind power project to ...

Jun 11, 2025 · Eolus has sold the greenfield-developed wind power project Pienava, totaling 147 MW, to Latvenergo, Latvia's state-owned energy ...



Wind Energy in Latvia - Mismatch between the Potential and

Sep 26, 2024 · Furthermore, the expected benefits for the Latvian economy were evaluated through a systematic analysis conducted. By performing modelling in the Energy Pro program, ...



Targale Windpark

The Targale Wind Park was developed for several years. During this time, many measures were taken to meet the regulatory standards required for construction and reduce the park's impact ...

ENERGY PROFILE Latvia

Distribution of solar potential
Distribution of wind potential Annual generation per unit of installed PV capacity (MWh/kWp) Wind power density

at 100m height (W/m2)



Lithuania

Litgrid, Augstsprieguma tīkls and Elering, the electricity transmission system operators of Lithuania, Latvia, and Estonia, have launched new reserve ...

Latvian Wind Energy Association

Latvian Wind Energy Association , 2,280 followers on LinkedIn. We drive Latvia's transition to a sustainable energy system , Latvian Wind Energy Association is the voice of the growing ...



Energy infrastructure in Latvia

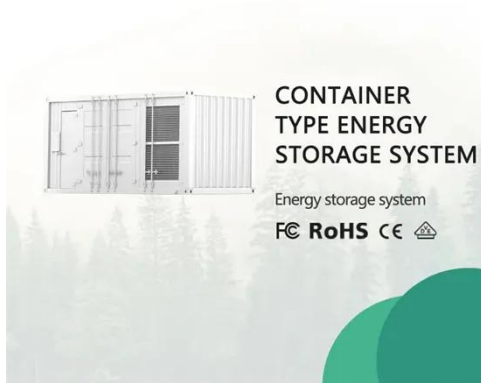
Oct 26, 2024 · Development to date
Latvia's energy system is largely based on renewable resources, primarily hydropower from the Daugava River, ...



4 Commercial Wind Turbine Systems and Applications

Wind power applications described include wind power stations delivering electricity on utility grids, distributed (dispersed) turbines on utility grids, turbines on isolated and/or small ...

CE UN38.3 MSDS



LITHUANIA: Latvenergo concludes the largest wind farm ...

May 27, 2024 · Latvenergo has acquired 100% in the Tel?iai project of Utilitas Wind, which will already enable the company to start wind power generation with a capacity of 124 megawatts ...

Public-Private Collaboration Paves the Way for ...

Sep 26, 2023 · By introducing the electric utility industry to emerging wind turbine technologies, the Wind Turbine Verification Program (TVP) gave utilities

more ...



How Do Wind Turbines Work? , Department of ...

2 days ago · Primus WindPower , 44231
Small turbines can be used in hybrid energy systems with other distributed energy resources, such as microgrids ...

A Rapid wind energy development in Latvia is expected in 2027

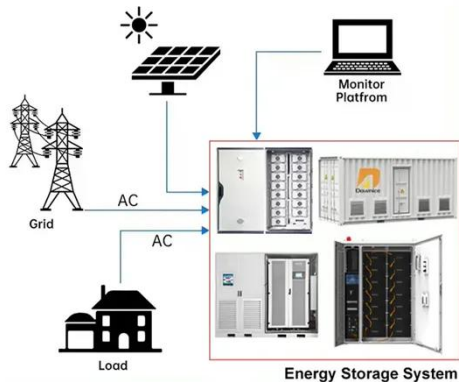
Mar 10, 2025 · In December 2024, Latvia set a new record for wind power generation, producing 38 GWh of electricity which is 25% more than in November and 57% more than in December ...



A Rapid wind energy development in Latvia is expected in 2027

Mar 10, 2025 · Wind energy currently represents 4.3% of total electricity production in Latvia, compared to an

DISTRIBUTED PV GENERATION + ESS



average of 20% in Europe. In December 2024, Latvia set a new record for ...

Home

Promote the use of wind energy in Latvia. Work towards ensuring a wind energy inclusive and stable regulatory framework. Advance an active involvement of ...



Wind Power Generation

Qiuwei Wu Conclusion Wind power generation is one of the most mature and promising power generation methods for large-scale commercial development. Wind power generation has the ...

Latvenergo's generation portfolio is becoming more balanced

Jun 11, 2025 · Latvenergo AS has acquired the "Pienava Wind" wind farm project, which will enable the company to start wind power generation with a

capacity of 147 megawatts (MW) as ...



Latvian Wind Energy Association , LinkedIn

Latvian Wind Energy Association , 2 302 followers on LinkedIn. We drive Latvia& #39;s transition to a sustainable energy system , Latvian Wind Energy Association is the voice of the growing ...

LWEA: Unlocking the potential of Latvian ...

Apr 14, 2023 · Latvia's coastal conditions, particularly in the Baltic Sea, offer significant potential for offshore wind power generation. It is estimated that this ...



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<https://www.wf-budownictwo.pl>