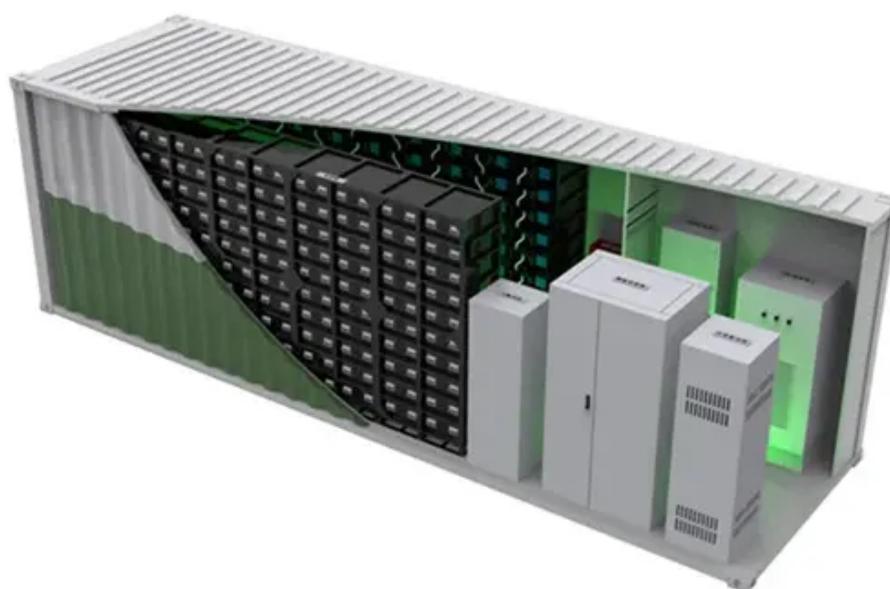




# Latvia wind and solar energy storage power generation





## Overview

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From 1 January 2023 Latvia banned the import of natural gas from Russia. The replacement comes from connections to LNG terminals, the LNG terminal in Lithuania, and from 2024 the recently opened Inkoo LNG terminal in Finland. JSC Conexus Baltic Grid is the natural gas in Latvia. International transmission pipelines are 577 km long, consisting of the Riga–Pahneva, Pleskava–Riga, Izbors.

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.

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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.

Renewables accounted for 73.4% of Latvia's electricity generation in 2024, data from the Central Statistical Bureau showed on Wednesday. Solar farm. Image source: Ignitis Renewables. Renewables output fell by 6.4% year-on-year to 4,643 GWh out of total generation of 6,322 GWh. Hydropower production.

The 2021-30 plan set a target of reducing greenhouse gas emissions by 65% compared to 1990. [5] There is a target of being carbon neutral by 2050. From 1 January 2023 Latvia banned the import of natural gas from Russia. The replacement comes from connections to LNG terminals, the Klaipėda LNG.

Central Statistical Bureau data show that 6 388 GWh of electricity were generated in 2023 (27.0 % more than in 2022), of which 4 963 GWh from renewable energy resources (renewables). The amount of electricity produced from renewables has gone up by 30.0 % (1 146 GWh) compared to 2022. Moreover.

Actions taken today to reduce emissions will inform the pace and scale of Latvia's energy transition and achieving its ambitious goal of climate neutrality by 2050,



according to a new in-depth policy review by the International Energy Agency (IEA). The review, published today, is a key milestone in.

Solar energy generation in Latvia has reached market saturation, meaning the overall electricity system should now focus on other types of production, said Sandis Jansons, Chairman of the Management Board of the distribution system operator AS Sadales tīkls, in an interview with LETA. He explained.



## Latvia wind and solar energy storage power generation

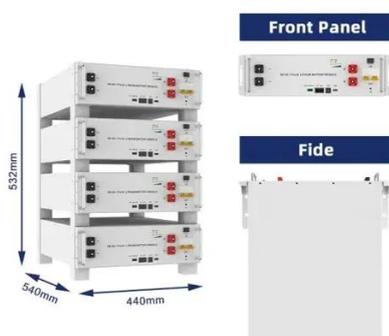


### [ENERGY PROFILE Latvia](#)

Solar PV: Solar resource potential has been divided into seven classes, each representing a range of annual PV output per unit of capacity (kWh/kWp/yr). The bar chart shows the ...

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

Latvia's Energy Strategy 2050 outlines major changes in renewable energy production and storage, with significant investments ...



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

Latvia's Energy Strategy 2050 outlines major changes in renewable energy production and storage, with significant investments planned in wind, solar, biomass, and ...

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

Based on simulations performed for various levels of vRES installed capacities, we evaluated the hosting capacity of the Latvian grid for each of the innovative measures in study.



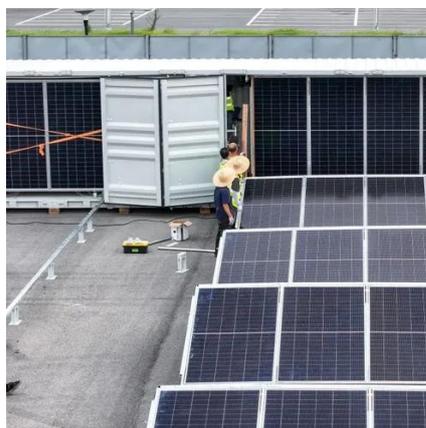
### [Latvia's transition to clean energy presents an important ...](#)

To further electrification within the energy sector, which is crucial for Latvia's broader climate goals, policymakers must foster a conducive environment for investors to ...



### [Sunly Launches 225 MW Solar Projects in Latvia](#)

Estonia-based renewable energy developer Sunly has commenced preparatory works for three solar projects in Latvia, collectively boasting a capacity of 225 MW. These ...



### [Hoymiles powers Latvia's largest energy storage ...](#)

The wind park, initially launched in 2022 with an annual generation capacity of 155 GWh, has integrated a utility-scale energy ...



### [Latvia's Booming Renewable Energy Sector](#)

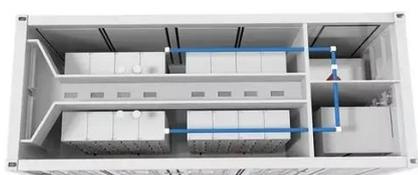


Latvia leads Europe in green energy with 43.5% renewables - solar parks, wind farms and sustainable use of natural resources



### [Hoymiles Powers Latvia's Largest Energy Storage Project at Targale](#)

Managed by Utilitas, Latvia's largest wind energy producer, this project combines wind energy generation with advanced storage capabilities, setting a new standard for ...



### [Solar energy in Latvia reaches saturation - Sadales tikls urges ...](#)

The pace of household solar installations has slowed, and the market has gradually reached saturation. However, when panels are combined with storage batteries, consumption ...



### [Latvia's renewables hit 73.4% share in power generation in 2024](#)

Renewables accounted for 73.4% of Latvia's electricity generation in 2024, data from the Central Statistical Bureau showed on Wednesday.

### [Latvia Energy Grants 2025: Solar, Wind, and Efficiency Subsidies ...](#)



Discover Latvia's 2025 energy grants and subsidies for solar panels, wind turbines, heat pumps, and energy efficiency improvements. Freen helps homeowners and ...



### [Energy Systems . Invest in Latvia](#)

Latvia is among the TOP 3 EU countries in renewable energy share of total consumption. Strong growth in large-scale wind farms, solar installations and distributed energy systems. Rapid ...

### [Hoymiles powers Latvia's largest energy storage ...](#)

The Targale wind park, managed by Utilitas, the country's largest wind energy producer, combines wind energy generation with ...



### [Utilitas Launches Latvia's First Utility-Scale Battery System](#)

Utilitas, an Estonian renewable energy producer, has launched Latvia's first utility-scale battery energy storage system (BESS) with a capacity of 10 MW/20 MWh in Ventspils. ...

### [Electricity generated from solar and wind power up by 92 % over ...](#)



As the gross consumption of renewables is increasing, Latvia is getting closer to the strategic goal of renewable energy sector 2 - reaching 50.0 % of renewable energy in gross ...



### [Top Construction Companies for Power Generation & Energy Storage](#)

Discover the leading players shaping Latvia's energy future. Liepaja, a hub for renewable energy innovation, relies on specialized construction firms to deliver cutting-edge power generation ...

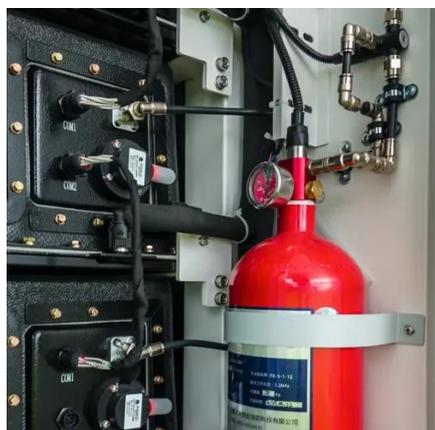
### Energy in Latvia

Renewable energy includes wind, solar, biomass and geothermal energy sources. Almost half of the electricity used in the country is provided by renewable energy sources.



### [Latvia's largest battery energy storage system ...](#)

On November 1 Latvia's largest wind energy producer Utilitas Wind opened the first utility-scale battery energy storage battery system in Latvia with a ...



### Energy in Latvia



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