

# **What are the energy storage policies for power plants in Latvia**





## Overview

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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 [3]. Can Latvia use clean electricity to decarbonise other economic sectors?

Latvia's hydro-dominated electricity system provides a favourable starting point to use clean electricity to decarbonise other economic sectors. Moreover, given Latvia's historic dependence on energy imports from Russia, its transition to clean energy sources offers an important opportunity to bolster energy security and lower energy prices.

Which energy sources are used in Latvia?

Latvia has underground gas storage facilities at the Inčukalns UGS, with a capacity of 4.47 billion m<sup>3</sup>. Natural gas companies include Latvijas Gāze. 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.

Does Latvia have a green energy policy?

Latvia has started to shift to an energy policy that leans heavily towards green energy after the restoration of its independence. However, it is still heavily dependent on imported energy that accounts for 90 percent of the country's needs.

How much electricity does Latvia use per capita?

In 2018, electricity consumption per capita was 3731 kWh. Latvia has adopted the EU target to produce 50% of its energy from renewable sources by 2030. The 2021-30 plan set a target of reducing greenhouse gas emissions by 65% compared to 1990. There is a target of being carbon neutral by 2050.

What is the main renewable resource in Latvia?



The main renewable resource is hydroelectric power. Latvia has laws that regulate the building of power plants and plans to sell electricity at higher prices. This is a stimulus for investment, especially taking into consideration the fact that Latvia cannot offer big subsidies in order to attract investment.

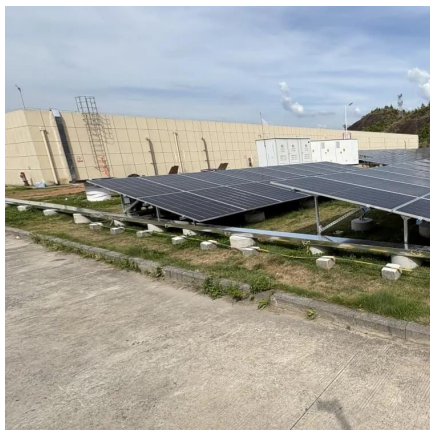
What is a hydro power station in Latvia?

Hydro is an important power source in Latvia, Ķegums Hydroelectric Power Station is the oldest hydro power station in the country, built in 1940. It was agreed in 2018 that Estonia, Latvia and Lithuania would connect to the European Union's electricity system and desynchronize from the Russian BRELL power system.



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### [EUROPEAN ENERGY TO BUILD 115MW SOLAR PLANT IN LATVIA](#)

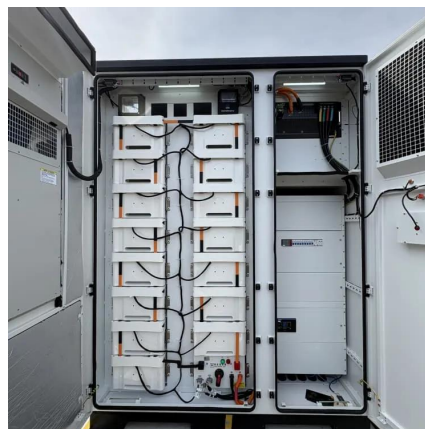
Concentrated solar power plant energy storage system This paper presents a review of thermal energy storage system design methodologies and the factors to be considered at different ...

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### **Latvenergo invests heavily in battery systems, plans to become ...**

The plans of the Group to invest in battery energy storage system technology by installing 250 MW of power with a capacity of 500 MWh by 2030 is an affirmation of the ...

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### [Energy storage and climate neutrality in the Baltic States](#)

In the European Union (EU) countries, increasing attention is being paid to different energy storage solutions. In Latvia, Lithuania and ...

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Taking into account the huge potential for biomethane and hydrogen production in Latvia,





which historically has arisen from the construction of CHP plants, for the maintenance ...

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### [Latvia's AST to invest 444.85 million euros in](#)

Latvia's AST will invest 444.85 million euros by 2034 to enhance energy infrastructure, including EU-funded projects for energy storage and renewable power integration.

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## Latvia - pv magazine International

The two grid-scale battery energy storage systems will be connected in autumn 2025, aiding Latvia's synchronization with the continental European power grid.

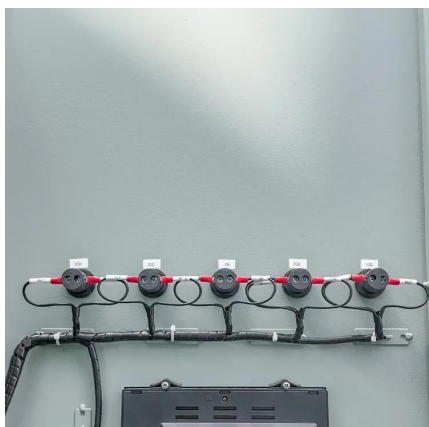
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### [Latvenergo positive about Baltics' battery-powered future](#)

"A growing demand in the energy market for battery energy storage system (BESS) technologies is developing currently, and the trend is expected to remain stable in the ...

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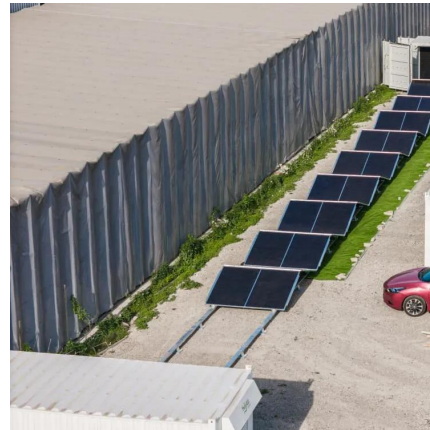




### [ROUNDUP: BESS projects in Sweden, Denmark and ...](#)

Niam and Evecon will deploy 84MW of solar power and 26MW of energy storage across 11 project sites in Latvia. Image: Niam Infrastructure. ...

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### [Large-scale battery storage for a stable Latvian power grid](#)

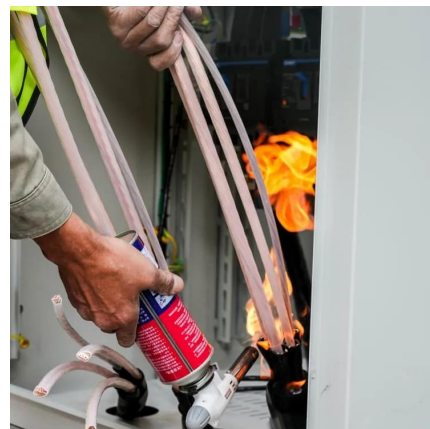
The battery system will provide the power reserves at a significantly lower cost than the existing conventional power plants. Rolls-Royce and AST have signed a 5-year contract ...

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### [Latvenergo Accelerates Energy Storage with 250 MW ...](#)

Latvenergo, Latvia's leading energy company, plans to install 250 megawatts (MW) of energy storage capacity by 2030. This ambitious target is ...

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### **Latvenergo Accelerates Energy Storage with 250 MW Target by ...**

Latvenergo, Latvia's leading energy company, plans to install 250 megawatts (MW) of energy storage capacity by 2030. This ambitious target is part of a broader strategy to ...

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### Europe's most powerful battery energy storage ...

Latvian transmission system operator Augstsprieguma tīkls AS (AST) and German company Rolls-Royce Solutions GmbH (Rolls-Royce) have started ...

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### Latvia's Booming Renewable Energy Sector

"Latvia's push for renewable energy, highlighted by projects like the 'Elwind,' is bringing in fresh investment and boosting our energy independence. These ...

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## **Wind energy**

Some time Renewable energy has been a widely-discussed issue in Latvia for more than 15 years, however, as the climate change progresses, renewable energy technologies play a central role ...

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### [Large-scale battery storage for a stable Latvian power ...](#)

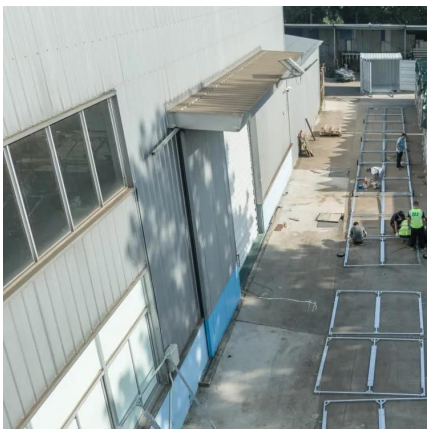
The battery system will provide the power reserves at a significantly lower cost than the existing conventional power plants. Rolls-Royce and AST ...

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### [European Energy to build 115MW solar plant in Latvia](#)

Danish renewable energy developer European Energy is set to build a 115MW solar plant in Latvia, near the town of Brocēni in the Saldus ...

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## **Latvia**

It draws on the IEA's extensive knowledge and the inputs of expert peers from IEA member countries to assess Latvia's most pressing energy sector challenges and provide ...

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### [Latvia - the best location to invest in smart renewable ...](#)

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

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## Energy in Latvia

Latvia has laws that regulate the building of power plants and plans to sell electricity at higher prices. This is a stimulus for investment, especially taking into consideration the fact that ...

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## 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 ...

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## [Rolls-Royce to supply 160 MWh of battery storage to ...](#)

The two grid-scale battery energy storage systems will be connected in autumn 2025, aiding Latvia's synchronization with the ...

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### [Latvia: Latvenergo to deploy 250MW/500MWh BESS ...](#)

This event will bring together key stakeholders from across the region to explore the latest trends in energy storage, with a focus on the ...

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### [Latvia: Latvenergo to deploy 250MW/500MWh BESS by 2030](#)

This event will bring together key stakeholders from across the region to explore the latest trends in energy storage, with a focus on the increasing integration of energy storage ...

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### **policy support and regulation of commercial and industrial energy**

Commercial energy storage systems support the grid by employing batteries to balance demand fluctuations, offer backup power during blackouts, and aid renewable energy sources like wind ...

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### [Energy storage and climate neutrality in the Baltic States](#)

In the European Union (EU) countries, increasing attention is being paid to different energy storage solutions. In Latvia, Lithuania and Estonia, large battery parks are to ...

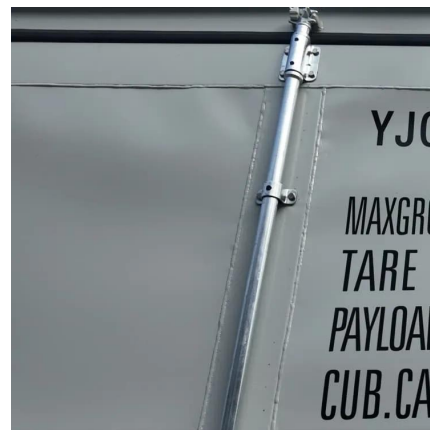
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## Rolls-Royce to supply 160 MWh of battery storage to Latvian grid

The two grid-scale battery energy storage systems will be connected in autumn 2025, aiding Latvia's synchronization with the continental European power grid.

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