

# Energy efficient storage Latvia

How has Latvia managed to unlink its energy dependency from Russia?

Overall, Latvia has made considerable progress in unlinking its energy dependency from Russian imports in a short period of time, including by imposing bans on the import of electricity and natural gas from Russia in 2023. The government is also changing its storage model for oil reserves to further fortify its oil security.

Can Latvia achieve energy savings by renovating its building stock?

Latvia could achieve considerable energy savings by renovating its building stock. Latvia holds considerable potential to accelerate energy efficiency outcomes in the buildings sector, which will go a long way toward meeting climate targets and lowering energy bills.

How can wind and solar power projects help Latvia?

Bringing wind and solar power projects online will also help reduce Latvia's dependence on natural gas imports and can contribute to lower electricity prices; current efforts to develop offshore wind will support this outcome.

What are the energy sources in Latvia?

Energy sources in Latvia's energy mix are renewables and oil. Increased production of renewables has helped bring down Latvia's import dependency, which is slightly below the EU average. However, further diversification of suppliers and still greater use of renewables would improve the energy situation of Latvia.

Will electricity be the cornerstone of Latvia's energy transition?

Electricity will be the cornerstone of Latvia's energy transition. Latvia's hydro-dominated electricity system provides a favourable starting point to use clean electricity to decarbonise other economic sectors and meet the target of 57% renewables in total final consumption by 2030.

How much does the EU spend on efficiency improvements in Latvia?

The EU is investing more than EUR400 million in efficiency improvements in Latvia. Annual targets for emissions not covered by the EU emissions trading system (EU ETS). This national target covers notably Latvia emissions from transport, buildings, agriculture and waste.

RIGA, Nov. 1 (Xinhua) -- Renewable energy company Utilitas Wind on Friday inaugurated the largest battery energy storage system (BESS) in Latvia to date, local media reported. Installed at the Targale wind farm in Latvia's western municipality of Ventspils, the system can store up to 20 MWh and dispatch up to 10 MW of electricity.

Looking ahead, Latvia aims to continue its journey towards a more sustainable energy future. This includes further integration into the European electricity market, increased focus on renewable energy sources, and enhancing energy efficiency. The country's commitment to these goals reflects its dedication to a

sustainable and secure energy ...

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Water tanks in buildings are simple examples of thermal energy storage systems. On a much grander scale, Finnish energy company Vantaa is building what it says will be the world's largest thermal energy storage facility. This involves digging three caverns - collectively about the size of 440 Olympic swimming pools - 100 metres underground that will ...

Latvia holds considerable potential to accelerate energy efficiency outcomes in the buildings sector, which will go a long way toward meeting climate targets and lowering energy bills. Latvia's energy demand is dominated by an ageing building stock, which accounts for nearly half of total final consumption, with residential buildings alone ...

In a resolute stride toward sustainable energy evolution, Conexus Baltic Grid, the gas transmission and storage operator of Latvia, has embarked on a comprehensive market study. The objective is to assess the multifaceted potential of hydrogen across the domains of demand, production, transmission, and storage within Latvia's energy landscape.

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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 ...

SUNShINE project on energy efficiency in buildings and EUR0.6 million for the RealValue project on smart electric thermal storage. Latvia The main energy sources in Latvia's energy mix are renewables and oil. Increased production of renewables has helped bring down Latvia's import dependency, which is slightly below the EU average.

This paper considers the potential for energy storage in Latvia and Lithuania with a particular focus on electrical energy storage benefiting from price arbitrage. A ... spread depending on its size and efficiency has been analyzed as well. The paper is structured as follows: the first section gives a brief overview of the ...

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



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The largest energy storage battery system will provide energy storage to transfer the generated electricity to users when there is a shortage in the electricity system. The battery system includes six battery containers, ...

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