

What is Latvia's energy demand?

Latvia's energy demand is dominated by an ageing building stock, which accounts for nearly half of total final consumption, with residential buildings alone accounting for a third of total consumption.

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.

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.

What are the new energy saving measures in Latvia?

In line with the Save Energy Communication, Latvia launched new energy saving measures, such as: Behavioural measures in public sector

Does Latvia have a gas storage facility?

Gas Storage Latvia owns the only functioning gas storage facility in the Baltic States, the Incukalns underground storage facility (2.47 bcm), and has a key role in ensuring its security of supply. This facility is undergoing enhancement works expected to be completed by 2025, which aims to increase the working gas volume to 2.8 bcm.

Moreover, Lithuanian energy company Ignitis purchased a 200 MW hybrid solar-wind project in Latvia. The operational solar capacity of Ignitis is expected to increase. Under the European Regional and Development Fund (ERDF) and the Cohesion Fund, 839 million euros will be invested in renewable energy sources between 2021 and 2027 to increase ...

Diversification of energy supplies 1. Key actions Import dependency from Russian natural gas was 100% in 2021 (equalling 1.2 bcm). Latvia has outlawed Russian gas imports starting in January 2023. (1) According to preliminary Eurostat information, gas-fired electricity generation in Latvia fell by 857 GWh, or 42%, in 2022 compared to 2021.

The total electricity distribution system-connected solar generation capacity was 300 megawatts (MW) at the end of 2023, three times the year before when it was about 100 MW, the State JSC "Distributi...

The amount of solar electricity produced and transferred to the grid in Latvia has tripled over the past year, according to the electricity market review prepared by the Latvian ...

Solar energy is the radiant energy from the Sun's light and heat, which can be harnessed using a range of technologies such as solar electricity, solar thermal energy (including solar water heating) and solar architecture.

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The Alnis Balins, the association's board chairman and European Energy Latvia Riga office head, said that Latvia's policy makers see the potential of solar energy in solving energy problems, but there is a lack of unified development strategy on national level, which will include representation of solar park developers.

Latvia recorded 54 MW of installed solar capacity at the end of last year, according to International Renewable Energy Agency (IRENA) statistics.

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But the energy mix - the balance of sources of energy in the supply - is becoming increasingly important as countries try to shift away from fossil fuels towards low-carbon sources of energy (nuclear or renewables including ...

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 ...

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Developing these resilient distribution systems will help achieve the U.S. Department of Energy Solar Energy Technologies Office (SETO)'s goals of improving the ability of solar energy to support the reliability and resilience of the country's electric grid. Learn more about SETO's goals. SETO Research in Resilient Distribution Systems



Solar energy distribution Latvia

The most ambitious solar power plant in Latvia to date - Kalkunes SES in the region of Augsdaugava, near Daugavpils - has started production. ... The new power plant has been developed with a connection to the distribution infrastructure so that residents and businesses consume the electricity generated. ... with the renewable energy project ...

The project is integrated with Targale Wind Park, a 58.8MW wind power plant that went into commercial operation in 2022. The battery storage system will be connected to the transmission grid this autumn and will enable surplus wind power generated at times of high production to be stored and outputted to the grid when demand peaks and renewable ...

Today, Latvia is a much different player in the renewable energy field. Over the past few years, the nation has shifted its focus toward integrating wind and solar energy on a broader scale, developing hybrid energy parks that combine wind turbines, solar panels, and battery storage systems.

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