
Solar powered house generator in Latvia

What is Latvia's energy system?

Latvia's energy system is largely based on renewable resources, primarily hydropower from the Daugava River, supplemented by wind, solar, and biomass. While natural gas imports cover energy shortages, the country aims to increase wind and solar energy capacity, with significant progress already made in 2022.

Who manages the electricity grid in Latvia?

The electricity grid in Latvia, however, is primarily managed by Sadales tīkls, the largest distribution system operator that serves 99% of the country's territory. Both public and private energy companies, such as AST and Latvenergo, participate in the sector.

Does Latvia need a thermal power plant?

Until now, Latvia has relied on electricity generated by hydroelectric power plants (HPPs), and the country's overall policy also included the development of thermal power plants (TPPs), as natural gas was a relatively cheap resource.

Does Latvia have a heat storage system?

Latvia has a comprehensive district heating system, especially in urban areas, where thermal storage is crucial for managing heating needs. Heat storage development in Latvia relies significantly on local government decisions.

Ignitis Renewables has started commercial operations at the 94 MW Varme solar farm in western Latvia. The project is one of the country's largest PV installations to date.

The company is currently building two other large-scale solar projects in Latvia: Stelpe (145 MW) and Tume (174 MW). Together, these three parks will exceed 400 MW of installed capacity, enabling the ...

Solar energy capacity also saw a sharp increase, driven by heightened interest in energy independence and supported by state incentives for household solar installations. Figure 3 highlights these ...

The overall solar generation capacity in Latvia currently stands at 600 MW. The solar park in Targale will significantly boost Latvia's solar energy generation, strengthening its position in the renewable ...

Scoring System This country profile highlights the good and the bad policies and practices of solar rooftop PV development within Latvia. It examines and scores six key areas: ...

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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