



Latvian solar ecosystem





Overview

In 2023, Latvia ranked among the top three countries in the European Union for renewable energy use, with renewables accounting for 43.5% of our energy consumption. This is nearly at the ambitious 44.3% target set for 2025 and well above the EU average of 23%.

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Latvia has officially inaugurated the Vārme solar farm, a significant 94 MW project developed by Ignitis Renewables. Spanning 101 hectares in the western region of Kuldīga, the farm is now the largest ground-mounted solar project in the Baltics. The project is part of the recent growth in Latvia's.

Latvians are fortunate to enjoy the stunning beauty of our natural landscape—from foraging for mushrooms in lush green forests to taking seaside walks and gathering medicinal herbs in diverse meadows. This heritage drives our commitment to preserve these treasures through responsible stewardship of.

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.

Covering 85 hectares, the power plant with a total installed capacity of 72.5 megawatts (MW) is equipped with 121 thousand solar panels. “This project symbolizes our strong commitment to creating a green and secure energy ecosystem in Latvia and the entire region. This solar farm will help supply.

Latvia has ambitious climate goals and a long history of utilising renewable energy sources, especially hydropower, with a total installed capacity of more than 1,500 MW. The overall solar generation capacity in Latvia currently stands at 600 MW. The solar park in Tārgale will significantly boost.

Ignitis Group has commissioned the Vārme solar park in the municipality of



Kuldīga, marking its operational entry into the Latvian solar market. The plant occupies 110 hectares and is equipped with 156,000 solar panels capable of generating energy to supply more than 40,000 households per year.



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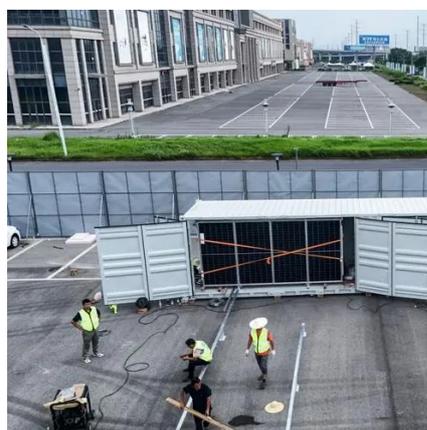


[40kW Solar Panel Installations](#)

Eco Green Energy's PV modules are helping Latvia achieve its renewable energy goals. Learn about recent 40kW solar installations in Latvia.

Solar Dev ?'s Post

? Latvia& #39;s Largest Solar Power Plant Commissioned in C?sis ? Latvia has just inaugurated its largest solar power plant, the C?su Solar Power Plant (SPP), with a 19.8 MW installed



[Engineering Bankable Growth: Rana Uzair Shafiq and the Solar ...](#)

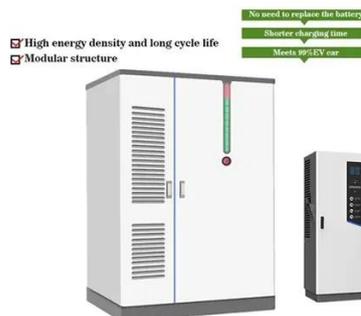
While many focus on short-term dispatch, Rana has built a sales architecture that prioritizes portfolio stability, partner confidence, and lifecycle value--the metrics that truly ...

[TRANSLATION: Latvia Rooftop Solar Country Profile](#)

Summary Latvia aims to increase renewable energy sources (RES) to 50% by 2030, but lacks specific solar targets in its current National Energy



and Climate Plan (NECP).



Latvia - pv magazine International

Lithuania's SNG Solar is set to build a 100 MW solar plant in the port of Riga, Latvia. Upon completion, the facility will be one of the largest solar projects in the Baltics.

Latvia

By stimulating ecosystem cooperation and knowledge transfer, we increase the Latvian export competitiveness and foreign R&D intensive companies landing in Latvia. Innovative ...



Latvia's Booming Renewable Energy Sector

Solar and wind energy production alone experienced an impressive 92% surge in 2023 compared to 2022, and this momentum shows no signs of slowing down. Building on these ...



[V?rme Solar Farm: Latvia's Largest Solar Project ...](#)

Latvia inaugurates the 94 MW V?rme solar farm, the largest in the Baltics. Learn how this massive project from Ignitis Renewables ...



[New Environmental Standard lab, Solar Energy Complex to boost ...](#)

New Delhi, Jan 6 The world's second "National Environmental Standard Laboratory" and the world's fifth "National Primary Standard Facility for Solar Cell Calibration" at the CSIR ...

[Solar power company group Latvia](#)

Ten developers of solar energy parks and representatives of the industry have established association Solar Energy For Latvia with a goal to promote development of a unified strategy ...



[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 ...



[LATVIAN SOLAR PANEL EXPORT PRICES](#)

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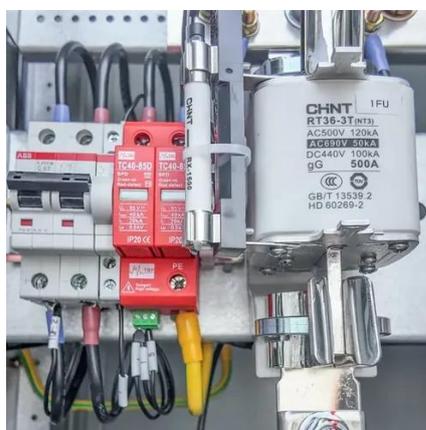


[V?rme Solar Farm: Latvia's Largest Solar Project ...](#)

Spanning 101 hectares in the western region of Kuld?ga, the farm is now the largest ground-mounted solar project in the Baltics. The ...

[Ecosystem Services of Habitat-Friendly Solar Energy](#)

The co-location of solar energy and habitat restoration (i.e., habitat-friendly solar ' or solar-pollinator habitat) has become the most ...



[T?rgale Solar Park: 148 MW solar energy in Latvia's Ventspils ...](#)

Creating new solar farms will reduce emissions from fossil fuel-based electricity generation and is a vital step towards a green transition and energy independence. The Nordic ...



T?rgale Solar Park: 148 MW solar energy in ...

Creating new solar farms will reduce emissions from fossil fuel-based electricity generation and is a vital step towards a green ...



51.2V 150AH, 7.68KWH

Our Lifepo4 batteries can be connected in parallels and in series for larger capacity and voltage.



Latvia's path to energy transition: Expanding ...

Given Latvia's high share of renewable electricity, the need for electricity storage technologies will increase significantly. However, there ...

V?rme Solar Farm: Latvia's Largest Solar Project Powers Up

Spanning 101 hectares in the western region of Kuld?ga, the farm is now the largest ground-mounted solar project in the Baltics. The project is part of the recent growth in Latvia's ...



The first stage of Stelpe solar farm in Latvia reaches commercial

Covering 85 hectares, the power plant with a total installed capacity of 72.5 megawatts (MW) is equipped with 121 thousand solar panels. "This project symbolizes our ...





[T?rgale Solar Park: European Energy and ...](#)

Latvia has set ambitious climate goals, aiming to source 57% of its electricity from renewable resources by 2030, according to the ...



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

Solar and wind energy production alone experienced an impressive 92% surge in 2023 compared to 2022, and this momentum shows no signs of slowing down. Building on these ...

[Ignitis Renewables expands green generation in the Baltics with ...](#)

Ignitis Renewables, an international green energy company, has completed its first solar project in Latvia where V?rme solar farm, located in the Kuld?ga municipality, has ...



[94 MW capacity solar park inaugurated in Latvia](#)

Ignitis Group has commissioned the V?rme solar park in the municipality of Kuld?ga, marking its operational entry into the Latvian solar market. The plant occupies 110 hectares ...



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