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Solar power generation in Lithuania

Overview

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In 2023, renewable energy sources accounted for 76.4% of electricity generation in the country, up from 18.2% in 2010 and 1.4% in 1990. [1] Renewable energy in Lithuania by type (as of 2022): [2] Solid biofuel or biomass represents the most common source of renewable energy in Lithuania. [2] Most.

Lithuania added 240 MW of solar in the first half of 2025, pushing cumulative capacity past 2 GW, with residential systems making up more than half of the total. Lithuania installed 240 MW of solar during the first half of 2025. The figure takes the country's cumulative solar capacity to 2,230 MW.

Lithuania's renewable energy targets, particularly in solar PV, have exceeded expectations with 1.2 GW of total solar capacity already installed, surpassing the 2025 goal. The government has set more ambitious targets of 2 GW by 2030, with revised NECP drafts aiming for a 500% increase to 5.1 GW.

The Lithuanian Energy Agency (LEA) is partnering with the National Renewable Energy Laboratory (NREL) to conduct the Lithuania 100% Renewable Energy Study (Lithuania 100) to provide evidence-based analysis for development of Lithuania’s National Energy Independence Strategy. The Lithuania 100 Study.

Lithuania’s electricity transmission system operator “Litgrid” has published the country’s electricity system indicators for July–September 2025. In the third quarter of this year, electricity production in Lithuania increased by 16%

compared to the same period last year. Local generation covered.

Lithuania is charging ahead in its renewable energy transition, with plans to dramatically increase its solar capacity. A recent report by the International Energy Agency (IEA) highlights the nation’s significant growth in onshore wind and solar photovoltaic (PV) systems, setting a powerful example.

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