



WALMER ENERGY

# Is Yerevan suitable for solar power generation





## Overview

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Does Armenia have solar energy?

Armenia has significant solar energy potential: average annual solar energy flow per square metre of horizontal surface is 1 720 kWh (the European average is 1 000 kWh), and one-quarter of the country's territory is endowed with solar energy resources of 1 850 kWh/m<sup>2</sup> per year. Solar thermal energy is therefore developing rapidly in Armenia.

What percentage of Armenia's Energy is renewable?

Renewable energy resources, including hydro, represented 7.1% of Armenia's energy mix in 2020. Almost one-third of the country's electricity generation (30% in 2021) came from renewable sources. Forming the foundation of Armenia's renewable energy system as of 6 January 2022 were 189 small, private HPPs (under 30 MW), mostly constructed since 2007.

Can bioethanol production be exploited in Armenia?

Annual biogas potential of around 135 mcm is just beginning to be exploited, and the Renewable Energy and Energy Efficiency Fund recently produced an Assessment of Bioethanol Production, Potential Utilization and Perspectives in Armenia exploring possibilities for bioethanol production and presenting the concept to investors.

How many HPPs are there in Armenia?

Forming the foundation of Armenia's renewable energy system as of 6 January 2022 were 189 small, private HPPs (under 30 MW), mostly constructed since 2007. Installed capacity is approximately 389 MW for annual generation of 943 GWh, covering 14% of domestic supply.



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### Solar Manufacturing in Armenia: An Infrastructure Assessment

Jun 18, 2025 · Q5: What is Armenia's solar energy potential? A: Armenia has exceptionally high solar irradiation levels, with an average annual solar energy flow of around 1720 kWh/m<sup>2</sup>, well ...

### EU for Yerevan Solar Community

EU supports the implementation of the "EU for Yerevan Solar Community" project implemented by the Yerevan Municipality. The project was approved by a Yerevan City ...

### Solar Energy for All: Promoting Low-Emission Energy ...

Apr 9, 2025 · Armenia provides an example of progress in expanding solar energy through supportive policies, regulatory reforms, and pilot projects, while addressing infrastructure, ...

### Armenia's Maiden Floating Solar Plant Online

Sep 18, 2023 · Yerevan, Armenia, inaugurates its first 150 kW floating solar PV plant on Yerevan Lake, backed by French government support. This ...

### Engineering: Solar power in Armenia

Jul 21, 2024 · Potential According to the Ministry of Energy Infrastructures and Natural Resources of Armenia, [10] Armenia has an average of about 1720 kilowatt hour (kWh) solar energy flow ...

### Energy system transformation - Armenia ...

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### Solar Manufacturing in Armenia: An ...

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### Harnessing Solar Energy in Yerevan Trends Benefits and ...

Summary: Discover how solar photovoltaic (PV) technology is transforming Yerevan's energy landscape. This guide explores market trends, installation best practices, and cost-saving ...

### Solar PV Analysis of Yerevan, Armenia

Aug 6, 2022 · Maximise annual solar PV output in Yerevan, Armenia, by tilting solar panels 34degrees South. Yerevan, Armenia (latitude 40.1817, longitude 44.5099) is a suitable ...

### Armenia's green energy transition: Solar power capacity set ...

Jan 3, 2025 · A Strategic push for Solar energy in Armenia Armenia's geography provides an



ideal setting for solar power generation, with over 2,500 hours of sunshine annually. ...

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#### Solar energy armenia

Solar thermal energy . In Armenia solar thermal energy is rapidly developing. The private sector is importing both parts for solar water-heating systems, with a view to their subsequent ...

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#### Armenia's Maiden Floating Solar Plant Online

Sep 18, 2023 · Yerevan, Armenia, inaugurates its first 150 kW floating solar PV plant on Yerevan Lake, backed by French government support. This step aligns with Yerevan's green energy ...

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#### Energy system transformation - Armenia energy profile

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