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# **Armenia energy storage 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 are the main energy sources in Armenia?

Since 1996 three main energy sources for electricity generation in Armenia were natural gas, nuclear power and hydropower. Despite a lack of fossil fuel, Armenia has significant domestic electricity generation resources.

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.

What is Armenia's energy-saving potential?

As Armenia's largest energy-consuming sector, buildings account for nearly 40% of the country's total electricity demand and more than 25% of its gas demand. Estimated energy-saving potential ranges from 40% to 60% across residential, public and commercial buildings, depending on interventions.



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### **GET\_ARM\_PS\_01\_2025\_EN**

Executive summary (1/2) Background Armenia imports 81% of its primary energy supply and 100% of its fuel for electricity generation. Rising electricity demand (2021 vs 2023: +16%) and ...

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

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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### Armenia Solar Installation Reaches 1 GW

"It is also possible to provide separate subsidies for the installation of solar battery storage at existing solar power plants. The rationale is straightforward: the existence of 1,000 ...

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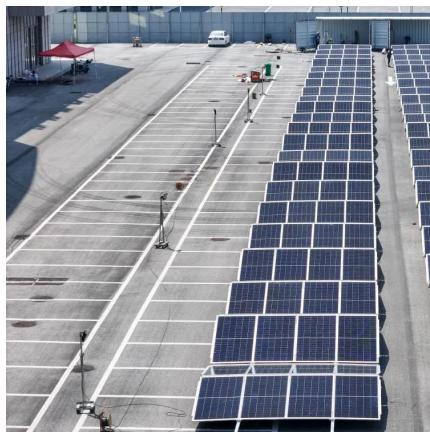
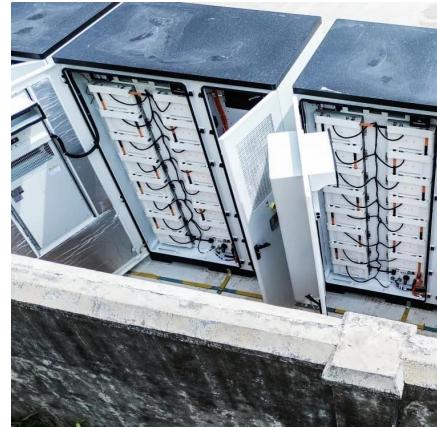
### Armenia hits 1 GW solar milestone - pv magazine International

The rationale is straightforward: the existence of 1,000 MW solar power plants presents certain challenges for Armenia's energy system." The 1 GW threshold suggests ...



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## [Solar Takes Off: Can It Fuel Armenia's Energy Independence?](#)

Energy specialist Vahe Davtyan argues that Armenia's rapid expansion of solar power is creating energy system risks due to lack of proper integration, storage strategy, and ...

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## Energy system transformation - Armenia energy profile - ...

Energy system transformation Renewable energy Renewable energy resources, including hydro, represented 7.1% of Armenia's energy mix in 2020. Almost one-third of the ...

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