

Armenia Outdoor Power





Overview

How much wind power does Armenia have?

A 2003 study by the U.S. Department of Energy's National Renewable Energy Laboratory (NREL) estimated Armenia's land areas with "good-to-excellent" wind resource potential to be around 1,000 km². With a conservative assumption of 5 MW per km², the authors noted that the area could support almost 5,000 MW of potential installed capacity.

How big is Armenia's solar power?

In 2017, Tamara Babayan, a sustainable energy expert, estimated the potential of Armenia's distributed solar power at 1,280 MW and almost 1,800 GWh in annual generation.

How much electricity does Armenia produce a year?

Last year Armenia produced 8,907.9 GWh of electricity, up 16% from 2021. The vast majority came from thermal power plants in Yerevan and Hrazdan (43.5%) and the Metsamor Nuclear Power Plant (32%). Hydropower accounted for 21.8%, while solar stood at 2.7% and wind power at just 0.02%.

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/m² per year. Solar thermal energy is therefore developing rapidly in Armenia.

Where does Armenia's electricity come from?

Despite this progress, the majority of Armenia's electricity still comes from non-renewable sources. Last year Armenia produced 8,907.9 GWh of electricity, up 16% from 2021. The vast majority came from thermal power plants in Yerevan and Hrazdan (43.5%) and the Metsamor Nuclear Power Plant



(32%).

Does Armenia have a hydropower potential?

Most of Armenia's hydropower potential is already tapped, but there remains some significant unrealized potential. In its long-term strategy, the Armenian government stated its goal to attract \$100 million to tap the additional small hydro potential, increasing its overall capacity from 380 to 430 MW.



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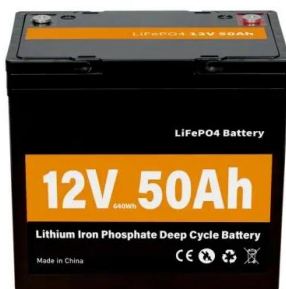
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[Energy system transformation - Armenia energy profile](#)

Installed capacity is approximately 389 MW for annual generation of 943 GWh, covering 14% of domestic supply. Several small plants also produce wind power (4.23 MW), bioenergy (0.835 ...

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[Renewable Energy: Armenia's Opportunities and Limits](#)

Armenia's progress in renewables came from two sources: small hydro and solar. However, wind power and other types of renewable energy are still not economically feasible ...

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[Armenia Power Market \(2025-2031\) . Trends, Outlook & Forecast](#)

6Wresearch actively monitors the Armenia Power Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, and forecast outlook.

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