

# **Armenia Wind Power Project Energy Storage**





## Overview

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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 km<sup>2</sup>. With a conservative assumption of 5 MW per km<sup>2</sup>, the authors noted that the area could support almost 5,000 MW of potential installed capacity.

How many wind farms are there in Armenia?

Armenia's wind energy sector is minuscule. The entire country has just four wind farms with an installed capacity of 4.23 MW and an average annual generation of 3.97 GWh.

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.

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 long-term energy strategy?

In its long-term strategy (up to 2040) for the energy sector, adopted in January 2021, the Armenian government identified the maximum utilization of



renewable energy potential as a priority.

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%.



## Armenia Wind Power Project Energy Storage



### Untapped Potential of Wind Energy in Armenia - GEF in Armenia

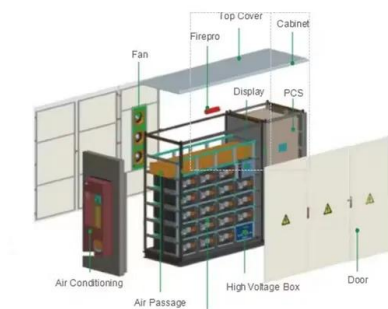
With favorable geographical conditions and growing international interest, wind power has the potential to transform Armenia's energy landscape, diversify its energy market, and reduce its ...

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### Microsoft Word

The development of renewable energy sources is crucial to the security and quality of Armenia's electricity supply. Utilization of the indigenous sources will reduce Armenia's dependence on ...

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### Wind power in Armenia

Wind power generates less than 1% of Armenia's electricity annually, as there were only four wind farms in 2023 and less than 10 MW is installed. According to a study sponsored by the United States Department of Energy (DOE) and the United States Agency for International Development (USAID) in 2002-2003, the theoretical wind power potential of Armenia is 4,900 MWe in four zones with a total area of 979 km . According to this r...

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

Armenia imports 81% of its primary energy supply and 100% of its fossil and nuclear fuels. These imports stem mainly from Russia and to a



lesser extent also from Iran. Expansion in cross  
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### ARMENIA ENERGY STORAGE PROGRAM

Two studies were carried out to support the Government of Armenia's energy storage program. "Energy Modeling and Economic/ Financial Analyses" study "Legal and Regulatory Review ...

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[gabon armenia power plant flywheel energy storage project](#)

Stornetic targets wind farms for flywheel energy storage system German manufacturer Stornetic aims to provide its flywheel storage system to wind power plants, it said today at the trade fair,  
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### [Armenia - Asia Wind Energy Association](#)

According to a study sponsored by the United States Department of Energy (DOE) and the United States Agency for International Development (USAID) in 2002-2003, the ...

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## Problems and priorities of the introduction of battery energy storage

6 days ago· Energy Storage Systems (ESSs) may play an important role in wind power applications by controlling wind power plant output and providing ancillary services to the ...

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### [IRENA - International Renewable Energy Agency](#)

Este informe examina la operación innovadora del almacenamiento hidroeléctrico bombeado, destacando su papel en la transición energética y la integración de energías renovables.

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## [ARMENIA RENEWABLE RESOURCES AND ENERGY](#)

Expected Outcome: The Government of Armenia will have access to technical and economic information to decide whether and how to move ahead with an energy storage Projects.

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### [Armenia Energy Storage Economic and Financial Analysis...](#)

The report provides technical and economic information and material to the relevant stakeholders and the Government of Armenia to decide whether and how to move ahead with an energy ...

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### [Meralco PowerGen, KEPCO eye wind, energy storage projects](#)

2 days ago· Meralco PowerGen Corp. (MGEN) and Korea Electric Power Corp. (KEPCO) are looking to expand their collaboration beyond solar energy into wind and energy storage ...

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

Armenia's wind energy sector is minuscule. The entire country has just four wind farms with an installed capacity of 4.23 MW and an average annual generation of 3.97 GWh.

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### [Armenia : Viability Assessment for Potential Wind Power ...](#)

The Government of Armenia requested support from the Asian Development Bank (ADB) in exploring opportunities to develop Armenia's wind energy potential. ADB responded to the ...

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### [The Yerevan Combined-Cycle Thermal Power Plant](#)

The Yerevan Combined-Cycle Thermal Power Plant is located 10km south from Yerevan, the capital city of Armenia. It was inaugurated on 22 April 2010. The plant was ...

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