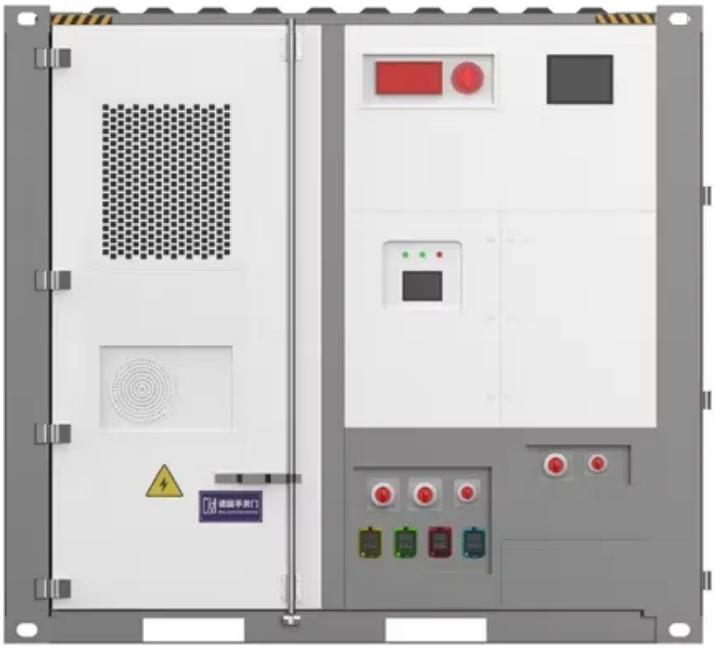
SolarTech Power Solutions

Armenia s GW-scale solar energy



Overview

is widely available in due to its geographical position and is considered a developing industry. In 2022 less than 2% of was generated by . The use of solar energy in Armenia is gradually increasing. In 2019, the announced plans to assist Armenia towards developing its sol.

Armenia’s installed solar capacity has reached 1 GW, and the government is likely to replace its subsidy program for standalone solar projects with one focused on hybrid and storage systems, according to the nation’s infrastructure ministry. Image: Benoît Prieur, Wikimedia Commons.

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Armenia’s installed solar capacity has reached 1 GW, and the government is likely to replace its subsidy program for standalone solar projects with one focused on hybrid and storage systems, according to the nation’s infrastructure ministry. Image: Benoît Prieur, Wikimedia Commons Armenia has.

Solar energy is widely available in Armenia due to its geographical position and is considered a developing industry. In 2022 less than 2% of Armenia’s electricity was generated by solar power. [1] The use of solar energy in Armenia is gradually increasing. [2] In 2019, the European Union.

Armenia has surpassed 1 GW of installed solar capacity, meeting its national solar target four years ahead of schedule, according to Infrastructure Minister David Khudadtyan. The announcement, first reported by the ARKA news agency, marks a significant milestone for the nation’s clean energy.

Armenia, with its abundant sunshine, is riding on this global wave. Solar’s share in Armenia’s total electricity output in 2024 stood at 10.4%, well above the global share of 6.9%. Total solar production of 975 gigawatt hours (GWh) is divided nearly equally between utility-scale farms and.

Data is now available through the .Stat Data Explorer, which also allows users

to export data in Excel and CSV formats. 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.

Armenia has made remarkable progress in scaling up its renewable energy resources, with installed solar capacity surpassing 1,100 MW between January and May 2025. On paper, the country has become a standout in the region, integrating solar power so successfully that it now contributes over 14% to. Why do Armenians use solar energy?

The reason for this is that average solar radiation in Armenia is almost 1700 kWh/m 2 annually. One of the well-known utilization examples is the American University of Armenia (AUA) which uses it not only for electricity generation, but also for water heating. The Government of Armenia is promoting utilization of solar energy.

What is solar power potential in Armenia?

Solar power potential in Armenia is 8 GW according to the Eurasian Development Bank. The reason for this is that average solar radiation in Armenia is almost 1700 kWh/m 2 annually.

How much solar energy does Armenia produce a year?

According to the Ministry of Energy Infrastructures and Natural Resources of Armenia, Armenia has an average of about 1720 kilowatt hour (kWh) solar energy flow per square meter of horizontal surface annually and has a potential of 1000 MW power production.

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.

Are solar panels legal in Armenia?

Consumers are allowed to install solar panels with total power of up to 150 kW, and may sell any surplus to electricity distribution company Electric Networks of Armenia (ENA). In Armenia, solar thermal collectors, or water-heaters, are produced in standard sizes (1.38-4.12 square meters).

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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