

## A-Core Container

# How many solar base stations does Armenia have



## Overview

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By December 2024, 41 solar photovoltaic stations, operating on different principles, had been built. At the beginning of the year, 7 more solar stations were commissioned, bringing the total 48. A significant portion of the existing solar stations operate in parallel with the electrical.

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As of 01 January 2025, 33834 autonomous solar energy producers are connected to the "Electric Networks of Armenia" with a 450475.320 kW total capacity. An additional 402 with a 21929.9 kW total capacity is in the connection process. Individuals and businesses can install up to 150 kW solar power.

Deputy Minister of Territorial Administration and Infrastructure of Armenia, Hakob Vardanyan, presented impressive data on the development of solar energy in the country during a meeting of the National Assembly's Standing Committee on Economic Affairs. As of September 1, 2024, Armenia operates.

In January-May 2024, the production volumes of solar power plants in Armenia, including autonomous producers, reached 9% of domestic generation, according to data from the Statistical Committee, reports Business Media. Currently, the country's electricity demand is about 1200 MW, which is roughly.

How many Solar photovoltaic power plants are in Armenia?

There are 22 Solar photovoltaic power plants in Armenia as of August, 2025. Preview of Solar photovoltaic power plant businesses in Armenia SOLARESS LLC Արևային ջրատարացուցիչ Էներժ. Get access to all 12 remaining Solar photovoltaic power. Does Armenia need a solar power plant?

In 2019, the European Union announced plans to assist Armenia towards developing its solar power capacity. The initiative has supported the construction of a power plant with 4,000 solar panels located in Gladzor. Solar power potential in Armenia is 8 GW according to the Eurasian Development Bank.

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.

Why do Armenians use solar energy?

The reason for this is that average solar radiation in Armenia is almost 1700 kWh/m<sup>2</sup> 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.

Where does Armenia's electricity come from?

Out of 3213.2 MW of installed capacity in Armenia, the largest portion of electricity generation comes from Metsamor Nuclear Power Plant at 38%, 33% from hydro power plants, 22% from gas-fired power plants, and the remaining 7% from other renewable sources.

Does Armenia have a nuclear power plant?

Armenia's Metsamor Nuclear Power Plant has an installed capacity of 815 MW, though only one unit of 407.5 MW is currently in operation. Because Turkey, despite its WTO obligation, blockades Armenian borders, nuclear fuel is flown in from Russia.

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).

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