

## **A-Core Container**

# **Armenia solar power generation and energy storage prices**



## Overview

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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 so.

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.

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 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<sup>2</sup> annually.

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.

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).

Where is the biggest solar water heater in Armenia?

The biggest solar water-heater in Armenia is located at Diana hotel in Goris, which has 1900 vacuum tubes that provide hot water for a swimming pool with 180 cubic meter volume, and for 40 hotel rooms.

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