SolarTech Power Solutions

# Armenia Solar Orchard Power System

## Overview

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/m 2 per year. Solar thermal energy is therefore developing rapidly in Armenia.

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 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.

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.

Is geothermal energy viable in Armenia?

The geothermal energy potential of Armenia is significant, but is not considered economically viable, at least for now. The World Bank has estimated the total potential at around 150 MW. The Karkar site in Syunik, for instance, has an estimated capacity of 28 MW with a construction cost of nearly $100 million, far pricier than solar.

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.

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## Solar System Installation , Solar Panel Installation

Solar panels are a profitable alternative The electricity productivity of Armenian-made solar panels differs significantly from the production of other countries. Solara uses solar panels produced ...



## Solar Energy Services in Armenia , SOLARA

Armenia has a great potential for solar energy (the average annual value of solar energy flow on 1 m² horizontal surface is 1720 kWh/m2, and a quarter of the territory of the republic is endowed ...

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## Solar Energy

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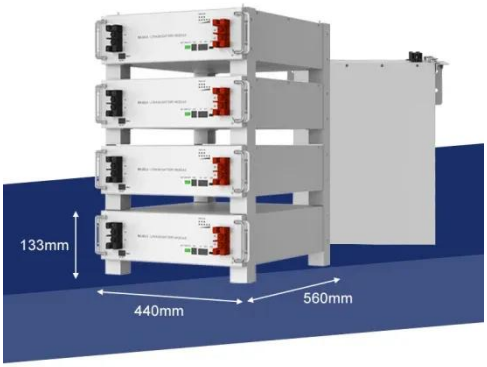


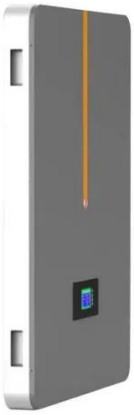

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