

# Armenia solar and energy storage

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<sup>2</sup> per year. Solar thermal energy is therefore developing rapidly in Armenia.

What will Armenia's Energy Strategy look like in 2021?

The 2021 Energy Strategy considers maximum use of the country's renewable energy potential to be a key policy priority. The Armenian government expects solar PV capacity to reach 100 MW by 2024 and 1 000 MW by 2030, and at that point to account for at least 15% of total generation. Some increase in wind is also expected.

Why does Armenia need a nuclear power plant?

Armenia depends on imports to meet much of its energy needs, particularly natural gas from the Russian Federation. It is one of the few ex-Soviet republics to avoid significant energy subsidies, and it is the only country in the Caucasus region to possess a nuclear power plant.

What is Armenia's largest solar power plant?

The 200-megawatt plant named Ayg-1 will be Armenia's largest solar power plant with a capacity of around half of Armenia's main energy generator, the Metsamor nuclear power plant. The plant is planned to be built in the Aragatsotn province in an area of over 500 hectares located in Talin, Dashtadem, Katnaghbyur and Yeghnik communities.

Where does energy come from in Armenia?

Domestic energy production comes mainly from Armenia's one Soviet-era nuclear power plant (Armenian Nuclear Power Plant [ANPP]) and from hydroelectricity. Since Armenia does not produce fossil fuels, all of the natural gas and oil products used in the country have to be imported.

How is Armenia transforming its power generation mix?

Armenia is making progress in further diversifying its power generation mix, particularly by aiming to build significant solar PV capacity. Armenia's 2021 Energy Strategy calls for up to 1 000 MW of solar PV capacity by 2030, at which point grid-connected solar is expected to account for 15% of generation.

But the energy mix - the balance of sources of energy in the supply - is becoming increasingly important as countries try to shift away from fossil fuels towards low-carbon sources of energy (nuclear or renewables including ...

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The installed capacities of Armenia's 60 solar farms range from 64.91 kW to 5,000 kW (5 MW). The majority (32 of 60) are at the upper range (5 MW), which seems to be the preferred size. ... ANIF says it will include energy ...

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Improvements in low-carbon technologies, driven in part by foreign energy policy, have created new opportunities for Armenia, a country without fossil fuel reserves, aligning environmental concerns and the pursuit of ...

Solar energy in Armenia is an important source of renewable energy, and its technologies are broadly characterized as active solar or passive solar, depending on how they capture and distribute solar energy or convert it ...

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