



Azerbaijan solar energy for homes

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Renewable energy stations in Azerbaijan; 240 MW Khizi-Absheron Wind Power ...

Electricity generation from RES in 2023

Installed capacities of electricity production in 2023

Share of RE in total electricity installed capacity in 2023

Gas and oil make up two-thirds of Azerbaijan's GDP, making it one of the top ten most fossil fuel-dependent economies in the world.¹ Azerbaijan has some renewable energy projects.²³ These include hydropower, wind, and solar and biomass power plants.⁴

The country's currently installed renewable energy capacity is 4.5 MW.⁵ Azerbaijan began installment of its first major solar plant in 2023.⁶ The government of Azerbaijan aims to increase share of renewables in total electricity production to 30% by 2030.⁷

Azerbaijan's renewable energy sources are hydropower, wind, solar, and biomass power plants. Together, these generated 1.48 billion kilowatt-hours (kWh) of energy in 2018, comprising almost 9% of the total production of 17.2 billion kWh.⁴⁸

Solar Power Plants of 20 MW and over include:

Azerbaijan is one of those countries where windmills could be perfect fit due to geographical location. In particular, the Absheron peninsula, coastline of Caspian Sea and islands in the northwestern part of Caspian Sea, the Ganja-Dashkasan zone in the west of Azerbaijan and the Sharur-Julfa area of the Nakhchivan Autonomous Republic are favorable areas. In 1999, Japan's Tomen Company, together with the Azerbaijan Scientific Research Institute of Power Engineering and Energy, installed two towers with 30 and 40 meters in Absheron, average annual wind speed was determined to be 7.9-8.1 m/sec and feasibility study about the installation of windmills with a total capacity of 30 MWt had been prepared in Qobustan region.³

The production of electricity from this hydropower is being increased since 1990. The percentage of production power of hydroelectric power plants is currently 17.8 percent in the total energy system of the Republic. There was no connection between Nakhchivan Autonomous Republic's energy system and the main energy system of the Republic, that is why medium, small and micro hydroelectric power stations need to be set up in the Nakhchivan Autonomous Republic.³



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The State Agency on Alternative and Renewable Energy Sources of the Republic of Azerbaijan was established by the Decree of the President of Azerbaijan dated 1 February 2013, for improving the management system in the field of alternative and renewable energy.

The Charter of the State Agency on Alternative and Renewable Energy Sources was approved by the Decree of the Head of State on 1 February 2013.

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