

**SolarInnovate Energy Solutions**

# **Azerbaijan Household Solar Power Generation System**



## Overview

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What is a solar PV project in Azerbaijan?

The Project involves financing the development, construction, operation, and maintenance of two solar photovoltaic (PV) power plants in Azerbaijan – (i) 315 MWac Banka solar PV power plant (Banka Solar); and (ii) 445 MWac Bilasuvar solar PV power plant (Bilasuvur Solar). Applicable Policy and Categorization.

Does Azerbaijan have solar power?

As Azerbaijan is relatively sunny, it has excellent solar power potential. According to the Ministry of Energy, technical potential is around 23 000 MW. The country's 2 400 to 3 200 sunshine hours annually compare well internationally, as does its solar intensity, estimated at 1 500 to 2 000 kWh/m<sup>2</sup>.

What is Azerbaijan's energy potential?

According to the Ministry of Energy, the country's technical potential for small hydro is 520 MW, which could generate up to 3.2 TWh annually. Azerbaijan's Renewable Energy Agency under the Ministry of Energy (formerly SAARES) states that the country has up to 800 MW of geothermal energy potential.

How can Azerbaijan improve energy security?

Diversifying and improving the energy capacity of the country to ensure energy security. Azerbaijan has significant untapped renewable energy potential, as it is a relatively sunny and windy country, and it also has sizeable hydro, biomass and geothermal resources.

What is Azerbaijan's potential for small hydropower?

Although hydropower is Azerbaijan's largest source of renewable energy today, its potential has not been fully exploited. According to the Ministry of Energy, the country's technical potential for small hydro is 520 MW, which could generate up to 3.2 TWh annually.

How can Azerbaijan generate electricity from biomass?

Rapid growth in industry, agriculture and social services in Azerbaijan is creating new opportunities for electricity generation from biomass derived from combustible industrial waste, forestry and food processing waste, agricultural waste, and other biological substances. The Ministry of Energy estimates technical potential of 380 MW.

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