



SolarTech Power Solutions

Armenia Rural Off-Grid Energy Storage Power Station



Overview

Where can I find a map of Armenia's national electricity transmission grid?

A map of Armenia's National Electricity Transmission Grid can be found at the website of the Global Energy Network Institute [here](#). Nuclear power provides 38% of the electricity in Armenia through one operating nuclear reactor, Unit 2 of Metsamor Nuclear Power Plant, which is a WWER-440 reactor with extra seismic reinforcement.

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.

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/m² per year. Solar thermal energy is therefore developing rapidly in Armenia.

What is the procedure for energy audits in Armenia?

The Procedure for Energy Audits is the norm-setting legal act that regulates energy audits in Armenia. This procedure was approved by Government Decree 1399-N of 31 August 2006 and revised by Decree 1105-N of 4 August 2011 and Decree 1026-N of 10 September 2015.

Could a geothermal power plant be built in Jermaghbyur?

At the Jermaghbyur site, geological and geophysical explorations have found that high-pressure hot water (20-25 atmospheres, up to 250°C) is available at

a depth of 2 500-3 000 m. If these data are confirmed, it would be possible to construct Armenia's first geothermal power plant with 25-MW capacity in this area.

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