

## European Solar Energy Storage

# Energy system Armenia



## Overview

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Energy in Armenia is mostly from . has no proven reserves of oil or and currently imports most of its gas from . The has the capacity to equal imports from Russia. Despite a lack of fossil fuel, there are significant domestic resources to generate . The Armenian electrical energy sector has had a surplus.

How does Armenia generate electricity?

Most of the rest of Armenia's electricity is generated by the natural gas-fired thermal power plants in Yerevan (completed in 2010) and Hrazdan. Upon gaining independence, Armenia signed the European Energy Charter in December 1991, the charter is now known as the Energy Charter Treaty which promotes integration of global energy markets.

What are the main energy sources in Armenia?

Since 1996 three main energy sources for electricity generation in Armenia were natural gas, nuclear power and hydropower. Despite a lack of fossil fuel, Armenia has significant domestic electricity generation resources.

How much energy does Armenia need?

It has been an observer to the Energy Community since 2011 and a member of the Eastern Partnership since 2009. Although Armenia's energy demand averages more than 3 Mtoe (3.59 Mtoe in 2020) and the country does not produce any fossil fuels, it manages to cover 27% of energy demand with domestic energy production.

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

How many power stations does Armenia have?

Armenia has a total of 11 power stations and 17 220 kV substations. A map of Armenia's National Electricity Transmission Grid can be found at the website of the Global Energy Network Institute [here](#) .

## Energy system Armenia

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### Armenia's Path to a Low-Carbon Energy Future: Key Strategies

Energy Systems In conclusion, Armenia, like many other countries, is in the process of developing a transition to a low-carbon energy system to combat global climate change. Based on the summary provided above, Armenia can take several key messages to draw an approach to the solution. Firstly, limiting warming well below 2°C necessitates energy ...

### Armenia energy profile - Analysis

This report gives an overview of the energy sector of Armenia, focusing on energy security and energy system transformation aspects. Published March 2023 Licence CC BY 4.0



### Strategic Development Program of the energy sector was approved

At today's sitting, the Government approved the Strategic Program for the Development of the Energy Sector of the Republic of Armenia (until 2040), the program-schedule ensuring its implementation. To ensure the effectiveness of the strategy the Government of the Republic of Armenia will pursue a social, environmental and balanced economic

## "WINNER SOLAR" SOLAR ENERGY SYSTEMS MANUFACTURING COMPANY OF ARMENIA

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### Armenia Energy Profile

Implementation of the Republic of Armenia Energy Sector Development Strategic Programme, which outlines the government's vision for least-cost strategies to develop the entire energy system and the measures necessary to implement this strategy. The strategy and its accompanying action plan are Armenia's main energy policy documents.

### Overview

Energy independence can only be reached through renewables and energy efficiency. Mission: The "Armenian Energy Agency" foundation aims to support the sustainable development of the Armenian energy sector. The Foundation is a knowledge-based center which brings together international and local experts in the field.



### Energy system structure

Energy System diversification, regional



integration and energy efficiency are the pillars of energy security for Armenia. One of the main objectives on the "Armenian Energy Agency" foundation is to support the sustainable development of economically viable potential of renewable energy and energy efficiency and the expansion of regional cooperation.

## Wind Energy

Companies of the system Armenian Nuclear Power Plant In 2003, the Wind Energy Resource Atlas of Armenia was drawn. According to it, economically reasonable wind power potential is estimated at 450 MW total installed capacity and at electric power output of 1.26 billion kWh/y. The main promising locations are the Zod (Sotk) Pass, Bazum Range



12V 10AH



## Armenia

Energy system of Armenia. Imports of oil and gas cover 77% of Armenia's energy needs. Current energy policy is focused on developing indigenous energy sources, mainly renewable, and on replacing the country's main nuclear reactor. Energy Efficiency policy has also become a bigger priority as energy security and reliability remain key focus

## Armenia

Armenia could reap sizable economic benefits from improved energy efficiency. The electric power system of Armenia is considered to have significant potential for sustainable energy because of the presence of hydroelectric, solar, wind, and other renewable energy sources. The total installed capacity of all hydropower systems

is 1,293 MW.

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## ARMENIA LEAST COST ENERGY DEVELOPMENT PLAN: ...

different potential pathways for the evolution of Armenia's energy system. This includes policy choices as well as sensitivity analyses to determine the possible impacts of variations in demand drivers. This set of scenarios is intended to provide vital inputs to policy and strategy development for Armenia's energy sector over the period to

## 02 , JUN 2024 Energy sector monitor Armenia 2024

» The Armenian energy system is heavily dependent on fossil fuels, in particular natural gas » The country has no domestic oil and gas production and had to import 81% of its primary energy supply in 2023 - Armenia imports 100% of its natural gas, nuclear fuel and oil products, primarily from Russia and



## Armenia 2020

Armenia has participated in a few other collaborative projects, including SYNERGIES (Synergistic Nuclear Energy Regional Group Interactions Evaluated for Sustainability), KIND (Key Indicators for Innovative Nuclear Energy

Systems), Roadmaps for a Transition to Globally Sustainable Nuclear Energy Systems and the TNPP-2 project relating to



## Energy systems engineer, Goris , Team

4 ???· Team Telecom Armenia is looking for Energy systems engineer, Goris Position Title Energy systems engineer, Goris Division Technical directorate Key Responsibilities: · Conduct operation of the power system of the site according to the requirements of technical norms. · Implement emergency rehabilitation works within the specified time limits.



## SOLAR PANELS in Armenia ? SOLARON.AM

Renewable energy systems are practical, reliable, and productive for people and for the environment. Soloron, being the first solar panel manufacturer in Armenia, paid special attention to the energy efficiency of buildings under construction and built. Since 2016, the company has been developing innovative solar energy solutions that

## Wind Power

Wind power energy in the Republic of Armenia has total capacity of 450 MW with annual output of 1.26 bln kWh electricity. High prospect areas include the mountain passes of Zod, Jajoor,

Sevan, Bazoum mountains; Qarakhach and Pushkin passes, Geghama mountains, Aparan, Meghri and the highlands between Sisian and Goris.



### Armenia: Energy System Overview

About GEO. GEO is a set of free interactive databases and tools built collaboratively by people like you. GOAL: to promote an understanding, on a global scale, of the dynamics of change in energy systems, quantify emissions and their impacts, and accelerate the transition to carbon-neutral, environmentally benign energy systems while providing affordable energy to all.

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## Armenia's energy system undergone "certain changes" after loss ...

The energy system of Nagorno-Karabakh was until recently fully integrated into the energy



system of Armenia. However, as a result of the 44-day war in 2020, when Azerbaijan used heavy military equipment, UAVs and prohibited weapons, more than 35 hydroelectric power plants of various capacity and several hydroelectric power plants under

## NNSA team enhances Armenia's emergency

The course centered on the Spectral Advanced Radiological Computer System (SPARCS), a versatile gamma radiation detection system used in cars, trucks, boats, and aircraft for emergency response operations. SPARCS can be deployed for a wide range of radiological search, survey, and monitoring missions, including searching for lost or stolen radiation ...



## Energy Governance in Armenia

Armenia's energy policy has seen enormous changes after becoming an independent state in 1991. Being a part of the unified all-union energy system of the then Soviet Union (USSR), the Armenian energy sector was deeply affected by numerous difficulties during political as well as market transition.

## Armenia: Energy Country Profile

Armenia: Many of us want an overview of how much energy our country consumes, where it comes from, and if we're making progress on decarbonizing our energy mix. This page provides the data for your chosen country across ...



## Indicators and Reports

Actual measures of electricity production, import, export, delivery, and losses in Armenian energy system. (2017, 2018, 2019) Address 10 Adonts St., 0014 Yerevan, RA

## "ENERGY SYSTEMS" o ARMENIA (YEREVAN)

- Energy efficiency, - Energy audit, - Building energy management system, - Automation, - Renewable energy consulting, - Building operation & maintenance, - Supply of filters for ventilation systems , Consulting: Energy , Energy Asset Management , Installation of Systems/Equipment for Use of Renewable (Alternative) Energy Sources , Technical



## **PLUG.AM: Promotion of Electric Vehicles in Armenia**

Despite the global trend, only 33 EVs were imported to Armenia as of November 2017. While many Armenian drivers understand the problem and are ready to switch to environmentally friendly means of

transportation, conditions are not appropriate as there is little to no charging infrastructure in place or government incentives provided.



## Energy security - Armenia energy profile - Analysis

Energy system reliability in Armenia is now considered adequate, as investments in electricity and gas infrastructure, increased residential access to gas and operational improvements since the mid-1990s have led to significant declines in outages and losses.



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