

Why does Armenia need a single energy supplier?

Armenia relies on imports of natural gas and oil for most of its energy needs, which exposes it to supply risks and dependence on a single supplier. As the government considers energy security and the development of indigenous sources to be of prime importance for the energy sector, renewables and efficiency measures are key areas.

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.

How important is R&D in energy technology and innovation in Armenia?

Research and development (R&D) in energy technology and innovation in Armenia is not significant, though it is becoming more important. The government's plan to develop new renewable energy technologies will increase the need for technology and innovation funding, and for skilled human resources.

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.

What is the energy mix in Armenia in 2021?

Natural gas dominates the energy mix (59.6% of total energy supply in 2020), but the electricity mix is more diversified. In 2021, Armenia produced 7.7 TWh of electricity, of which natural gas covered 44% (3.4 TWh), hydro and other renewables 30% (2.3 TWh) and nuclear 26% (2.0 TWh).

Does Armenia trade electricity with Georgia?

Armenia also trades electricity with Georgia, though volumes are low since the countries' networks are not synchronised. Energy interconnections with Azerbaijan and Türkiye are currently inactive for political reasons. Prompted by a severe electricity supply crisis in the mid-1990s, Armenia has revamped its energy sector over the past 20 years.

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Armenia: Energy intensity: how much energy does it use per unit of GDP? Click to open interactive version. Energy is a large contributor to CO₂ - the burning of fossil fuels accounts for around three-quarters of global greenhouse gas emissions. So, reducing energy consumption can inevitably help to reduce emissions.

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Besides, the number of sunny days in Armenia is large, about 270-300 days a year. All this makes the use of solar energy in Armenia quite attractive. 2016 On March 15, the National Assembly of the Republic of Armenia approved a very important legislative package aimed at the development of solar energy in Armenia - "Net-metering".

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This is an important step on the pathway to energy efficiency initiated by Armenia in 2004 with its first law on Energy Saving and Renewable Energy. Last evaluated by the government in 2022, ...

water account for a big share of energy consumption in Armenia. Heating alone accounts for 20% of energy consumption and 30% of Armenia's energy savings potential. Solutions: + Construction or repair of district, CHP, or central heating systems + Grants and preferential loans for insulation, retrofits, and heating upgrades in low-income settings

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In 2022, Armenia published the program on energy saving and renewable energy for 2022- 2030. These endeavours have resulted in a notable achievement: a year-on-year reduction of 10% in gas imports from Russia in 2023. Electricity ...

in 2019-20 ESF and LDK consultants have worked with EIB to carry out a high-level mapping of donor/IFI resources in EE in Armenia, identify gaps and recommend actions for immediate assistance, which later lead to high-level dialogue of the donor/IFI committee with the Government of Armenia and endorsement of key priorities in building energy efficiency domain, with ...



Energy net solution Armenia

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The goal of this initiative is to integrate renewable energy solutions into community energy use for local sustainable energy transition, awareness raising and boosted energy independence, while also making small-scale EE and RE solutions available for ...

Second, the electricity produced by solar plants is a profitable side income. Today, in many countries, as well as in Armenia, where solar energy is developing, there is a "Green Tariff". The latter is a clear mechanism by which the state buys electricity produced from alternative energy sources from private individuals.

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RA ENERGY SYSTEM Energy System diversification, regional integration, and energy efficiency are the pillars of energy security for Armenia. Read more. Agency Projects #171;Agrivoltaic as an Innovative Approach to Agriculture#187; ...

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