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# Armenia multifunctional energy storage power supply





## Overview

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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 Armenia's energy-saving potential?

As Armenia's largest energy-consuming sector, buildings account for nearly 40% of the country's total electricity demand and more than 25% of its gas demand. Estimated energy-saving potential ranges from 40% to 60% across residential, public and commercial buildings, depending on interventions.

How many HPPs are there in Armenia?

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. Installed capacity is approximately 389 MW for annual generation of 943 GWh, covering 14% of domestic supply.

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.



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## Armenia multifunctional energy storage power supply

A multifunctional energy storage system is presented which is used to improve the utilization of renewable energy supplies. This system includes three different functions: (i) uninterruptible ...



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Modelling optimal battery energy storage deployment Creation and use of a techno-economic model to analyse the Armenian electricity system and determine cost-optimal deployment of ...



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