# Demand for energy storage power stations in Armenia

How has energy security changed in Armenia?
Armenia's energy security has greatly improvedsince the gas and power supply crisis in the early to mid-1990s. During the crisis,energy sector management was dysfunctional,losses were extremely high,and the collection rate was below 50%. This resulted in acute supply shortages,with households receiving only a few hours of power per day.

How reliable is the energy system in Armenia?
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.

What is the electricity market like in Armenia?
Armenia's electricity market operates under the single-buyer modeland includes six large generation companies (private and state-owned),more than 205 small power producers and one transmission system operator (TSO). Generation and transmission operations are unbundled. There is no competitive wholesale electricity market.

How much energy does Armenia produce in 2021?
In 2021,Armenia produced 7.7 TWhof electricity,of which natural gas covered 44% (3.4 TWh),hydro and other renewables 30% (2.3 TWh) and nuclear 26% (2.0 TWh). In the Caucasus region,Armenia is the only country producing nuclear energy. Armenia's energy demand averages more than 3 Mtoe (3.59 Mtoe in 2020).

How does electricity trade work in Armenia?
Electricity trading is currently limited,however,as Georgia and Armenia have asynchronous systems and Armenia's market is mostly closed. Electricity trade with Iran is based on a barter agreement,whereby much of the gas imported from Iran is used in power generation at the Yerevan power plant,which in turn exports the power to Iran.

How much electricity is generated by solar power plants in Armenia?
The total amount of electricity generated by autonomous solar installations and solar power plants is estimated at 523.5 million kWh. This indicator is about 1.8 times higher than those in 2021. The Government of Armenia is implementing a promoting policy for the development of solar water heating technologies.

This report analyzes the economic and financial viability of battery storage solutions to ensure the reliable and smooth operation of Armenia"s power system in the context of an increasing share ...

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