

# NEW MARKET ARMENIA ENERGY STORAGE PROJECT



How has Armenia restructured its energy sector? Prompted by a severe electricity supply crisis in the mid-1990s, Armenia has revamped its energy sector over the past 20 years. Parts of the sector have been privatised, some companies have been restructured, most households now have access to gas, and cost-reflective tariffs have been introduced.



Will Armenia's energy sector transition through 2040? The Armenian government approved the Energy Sector Development Strategic Programme (hereinafter *Energy Strategy*) in January 2021, setting the path for the sector's transition through 2040. The publication and approval of this strategic document are welcomed and should form a useful basis for Armenia's future energy legislation.



Is Armenia moving from a single-buyer model to a competitive power market? Armenia is moving from a regulated, single-buyer model to a competitive power market, with a launch date set for February 2022. The careful preparation of this work over many years is to be commended. As part of the first stage of market reforms, the government plans to improve protection mechanisms for vulnerable customers.



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.



How does Armenia import natural gas? Natural gas is imported from Russia via pipeline through Georgia, but also from Iran through a barter agreement under which it exports electricity in exchange. Armenia also trades electricity with Georgia, though volumes are low since the countries' networks are not synchronised.

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How does Armenia produce electricity? However, all of its thermal generation relies on gas, around 85% of which is imported from Russia. Furthermore, Armenia imports all of its nuclear fuel from Russia. Armenia therefore effectively relies on fuel imports from one country to produce nearly 70% of its electricity, raising concerns about the diversity of supply.



The projects, which are conditional on signing a capacity investment scheme agreement, are expected to commence operations by mid-2027. The CIS aims to encourage new investment in renewable energy dispatchable capacity, such as battery storage and generation from solar and wind, to meet growing electricity demand and fill reliability gaps as older coal ???



Energy-Storage.news" publisher Solar Media will host the 5th Energy Storage Summit USA, 28-29 March 2023 in Austin, Texas. Featuring a packed programme of panels, presentations and fireside chats from industry leaders focusing on accelerating the market for energy storage across the country. For more information, go to the website.



large-scale variable renewable energy sources (VRES). Expected Outcome: The Government of Armenia will have access to technical and economic information to decide whether and how to move ahead with an energy storage Projects. The main tasks: Task 1 - Production modeling, generation dispatch and energy market analysis

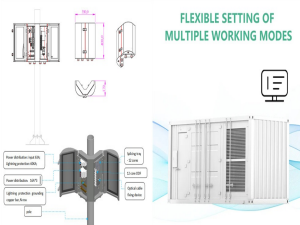


The project began in 2015 when Ameresco secured two Energy Storage Facility Agreements from Ontario's IESO to design, build, own, and operate two 2 MW, four-hour "Battery Solid" energy storage systems. These completed systems provide 16 MWh in overall energy storage capacity. Overall design of the BESS and project build

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>> Armenia's electricity market is undergoing a significant transformation as liberalization of the electricity wholesale market started in 2022 and the decision to build a new nuclear power ???



Minister of Energy Sebastian Burduja signing 24 financing contracts for self-consumption solar and storage projects, worth nearly ???14 million. Image: Ministry of Energy. A 204MW battery energy storage system (BESS) project in Romania can progress after the government said it did not need to go through an environmental impact assessment (EIA).



Although much smaller in scale, the projects by PNM appear to be similar in function to so-called "Grid Booster" projects seen in Germany and Lithuania. Energy-Storage.news" publisher Solar Media will host the 9th annual Energy Storage Summit EU in London, 20-21 February 2024. This year it is moving to a larger venue, bringing together

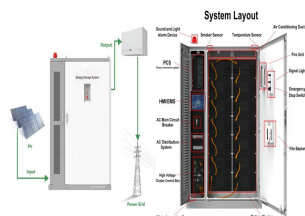


The project focuses on the uptake of small-scale renewable energy (RE) in Armenia to reduce the country's dependence on fossil energy, address the energy availability and security concerns, as well as support the energy market liberalization. This project will be the extension to the current project approved by the SREP Subcommittee (SC) in February 2020 and successfully ???



New-build battery storage projects from three developers totalling 357MW were among resources awarded contracts in Belgium's latest capacity market auction. was a sign that the country's energy storage market was maturing. Baschet noted that while those assets would only earn ???11,400 (at that time US\$12,820) per MW/year, equal to

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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 ???



Presently, Armenia is actively seeking ways to diminish its reliance on energy imports. Significant progress has been made in enhancing energy efficiency and deploying renewable energy sources. In 2022, Armenia published the program on energy saving and renewable energy for 2022-2030. These endeavours have resulted in a notable achievement: a



Last week, as reported by Energy-Storage.news, Qcells said it had closed a US\$150 million financing deal and begun construction of its 190MW/380MWh Cunningham Energy Storage project in Texas, marking its first entry into the utility-scale standalone storage space.. The company said the revolving credit loan facility, secured with lead arrangers BNP Paribas ???



Governor Kathy Hochul announced the awards at the 2022 Advanced Energy Conference in New York City, Image: Governor Kathy Hochul official Flickr. US\$16.6 million funding has been committed for five long-duration energy storage (LDES) projects in New York by the US state's government.



The project is the French utility's first in the US state of New Mexico. Image: EDF Renewables. EDF Renewables in North America has signed a 150MW solar-plus-storage 20-year power purchase agreement (PPA) with utility El Paso Electric in New Mexico, US.

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Currently, Armenia is in the initial stages of developing a pilot project on battery storage, with plans for a utility-scale project with an estimated installed storage capacity of 1,200 MWh to be ???



Rendering of how the floating battery storage portion of the hybrid power barge could look. Image: W?rtsil?. Philippines power generator, supplier and distributor AboitizPower has confirmed progress on large-scale battery energy storage system (BESS) projects which the company claimed will be part of "the foundation to sustain its long term growth".



Gridstor, a developer of standalone battery energy storage system (BESS) assets, has acquired a 450MW/900MWh project in Texas, US, the company's first in the booming ERCOT market. Gridstor announced last week (6 March) that it has bought the large-scale Evelyn Battery Energy Storage project in Texas" Galveston County from Balanced Rock



While New York has in place an ambitious 3GW energy storage deployment target by 2030 in support of its renewable and clean energy policies, development of large-scale systems has barely just begun, with developer Key Capture Energy completing the first transmission system connected utility-scale storage project in mid-2019 and the majority of



The Winners Are Set to Be Announced for the Energy Storage Awards! Energy Storage Awards, 21 November 2024, Hilton London Bankside 2024. International Electric Power is proposing a long-duration energy storage project on the Marine Corps Base Camp Pendleton, California utilising Eos Energy Enterprises's zinc cathode battery technology

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Nippon Koei is active in battery storage markets in other countries including the UK. Image: Yuso via Twitter. Financial close has been reached for a 25MW / 100MWh battery energy storage system (BESS) project in Belgium which has also been successful in a grid capacity auction alongside gas-fired power plants.



the perspective of different technological energy storage options in Armenia and business models feasible in the local energy market context. The analysis also aims to identify what reforms would be needed to realize energy storage projects in Armenia, including how projects must be remunerated. This study stems from the



Development of battery systems to help integrate renewables and boost grid reliability continues to pick up pace in New South Wales, Australia, with Shell announcing a 1,000MWh project. Just last week, Energy-Storage.news reported on two large-scale battery energy storage system (BESS) projects in the state: the Waratah Super Battery 700MW/1



Key Capture Energy chief operations officer Dan Fitzgerald told Energy-Storage.news that it wasn't easy being "first mover on many fronts, such as market, permitting and interconnection hurdles," but felt that the lead time was time well spent. Fitzgerald said the project creates "a foundation from which many more energy storage systems



It also revealed that the concrete foundations have been completed for the firm's first gravity storage project in the US, in Georgia with Enel Green Power. Energy Vault now provides a range of energy storage solutions including battery storage and green hydrogen and is forecasting for US\$325-425 million in revenues this year.

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Its new features and updates are designed to enable effective control and dispatch in an industry of ever-larger battery energy storage system (BESS) projects, "multi-gigawatt-hour" projects in fact, while helping respond even faster to grid signals.