



# Yerevan 2 4 billion energy storage project





## Overview

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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 of variable renewable energy sources in the grid.

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ments Undertaken by Yerevan Municipality and EBRD within Framework of Yerevan Green City Action Plan" project. As part of this project, the compatibility of Ye available online, as well as the official websites o aims to facilitate t the quality of environmental assets (air, water, s 3 projects, and.

A 25-35 MW-4h BESS offers a cost-effective solution to enhance system resilience Armenia imports 81% of its primary energy supply and 100% of its fossil and nuclear fuels. These imports stem mainly from Russia and to a lesser extent also from Iran Expansion in cross-border transmission capacity is.

ture Protection of the Republic of Armenia. The Projects are funded by the Global Environment Facility and implemented by the Unit . . . . he optimization of . . . . ublic electric tran revan public and pr . . . . .

As Armenia works towards the Government's ambitious renewable energy targets and the share of variable renewable generation increases, the country might need to install battery storage systems to ensure the reliable and smooth operation of its power system While the need for battery storage is.

As the share of variable renewable energy generation increases, Armenia might need to install battery storage systems to ensure the reliable and smooth operation of its power system. The Government of Armenia is looking to launch an energy storage program leading to the development of the first.

Armenia has progressed well in providing energy access to its citizens. The electrification rate in Armenia was already 100 per cent in 2021. As of 2021, 98.6



per cent<sup>1</sup> of the population relied on clean fuel and technologies, 99.9 per cent in urban areas, and 95.9 per cent in rural areas. However. What is the energy saving plan for Yerevan?

The Plan assesses energy saving opportunities in the identified areas and levels of greenhouse gas emissions from burning of fuel, and recommends measures aimed as achievement of the SEAP target for Yerevan, i.e. 20% reduction of greenhouse gas emissions in the jurisdiction of Yerevan City by the year 2020.

How much energy does Yerevan use?

Installation of solar energy plants in administrative buildings The total energy consumption of administrative buildings of the Municipality of Yerevan and 12 administrative districts during the baseline year of 2012 amounted to: electrical energy — 4111.7 MWh, natural gas — 489.55 thousand nm<sup>3</sup> or 4497.0 MWh.

Does Yerevan have a street and outdoor lighting system?

Street and outdoor lighting system is financed from the municipal budget and is a large energy consumer. During the last 5-6 years, the outdoor lighting system of Yerevan underwent significant qualitative and quantitative changes.

How much money does Yerevan need to improve water supply?

The 21 million USD Program (including both credit and grant components) on Priority Investments for Improvement of Water Supply in Yerevan (EBRD - 7 million USD, EIB - 7 million USD, EU Neighborhood Investment Facility (NIF) - 7 million USD grant).



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### [COMPATIBILITY OF YEREVAN NEW MASTER PLAN WITH ...](#)

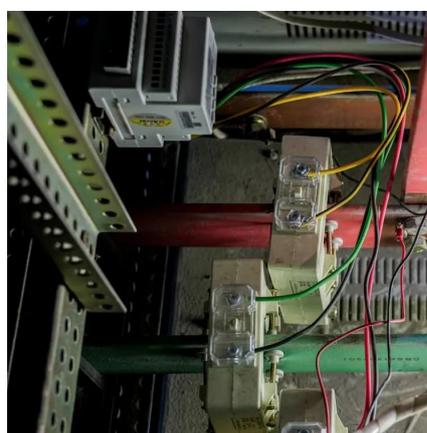
Although Yerevan has made significant progress in terms of energy efficiency and energy conservation, these issues, as well as the strategic goals of the GCAP, have not been ...

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### [Yerevan's Innovations in Revamping Urban ...](#)

The city supports initiatives that focus on renewable energy, waste management, and energy-efficient building practices. These efforts ...

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### [National relevant mechanisms to attract investments to ...](#)

The Law on Energy Saving and Renewable Energy No. LA-122 (2004) aims to support the implementation of programs on energy efficiency and the introduction of renewable sources of ...

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## [YEREVAN CITY SUSTAINABLE ENERGY ACTION PLAN](#)

The Sustainable Energy Action Plan (SEAP) of the City can be characterized as the first step towards implementation of a long-term strategy for environmental protection and improvement ...



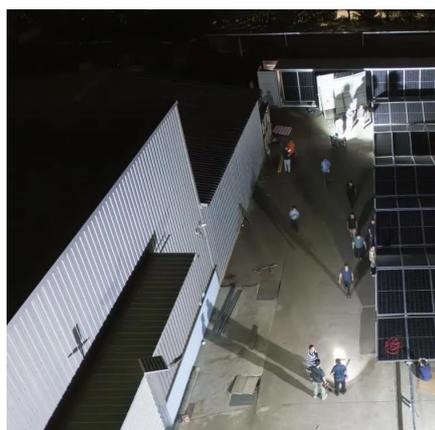
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### [Armenia Energy Storage Economic and Financial Analysis ...](#)

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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### [Yerevan's Innovations in Revamping Urban Development](#)

The city supports initiatives that focus on renewable energy, waste management, and energy-efficient building practices. These efforts not only help mitigate climate change but ...

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### **Armenia RENEWABLE ENERGY**

electricity generation. Electrical energy is generated by the Armenian Nuclear Power Plant, Yerevan TPP CJSC, Hrazdan Energy Company, Vorotan HPP Cascade, and Sevan-Hrazdan ...

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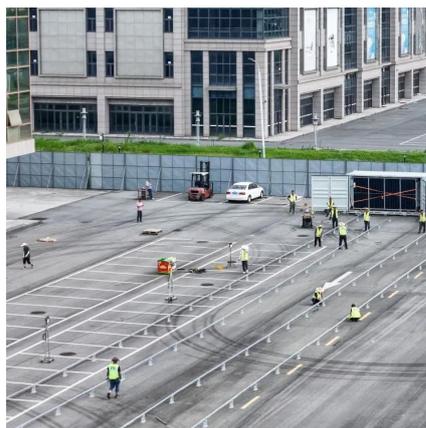


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Creation and use of a techno-economic model to analyse the Armenian electricity system and determine cost-optimal deployment of battery energy storage system (BESS)

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### [SRIE-Explanatory Notes on Compilation of Energy Balance ...](#)

During the compilation of the energy balance, it is necessary to take into account the flows of energy carriers and all types of the energy by their generation, recycling, transformation, ...

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### [ARMENIA RENEWABLE RESOURCES AND ENERGY ...](#)

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.

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### **ARMENIA ENERGY STORAGE PROGRAM**

If storage is considered an energy consumer for taxation purposes, energy offtake by storage will constitute a taxable event. Subsequently, the discharge energy will be taxed once again when ...

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