

Can storage technologies improve energy security in Romania?

Such enhanced legislation is needed for implementing the Romanian National Energy and Climate Plan (NECP), which lists 'developing storage capacities' as an instrument to improve energy security but lacks detail on how storage technologies will be deployed until 2030.

What is Romania's energy storage policy?

Energy Policy Group (2020), Romania's Energy Storage: Assessment of Potential and Regulatory Framework, December 2020. The European Green Deal, with its flagship policy, the Climate Law, is set to enshrine into law the target of net-zero greenhouse gas (GHG) emissions by 2050.

What are some examples of energy security issues in Romania?

One example is Romania's NECP, which at first did not address storage technology. The updated version of 2020 was marginally improved in this respect, listing 'developing storage capacities' as an instrument to improve energy security, but lacking detail on the storage capacity to be developed until 2030.

How much money will Romania get for battery storage projects?

The financial support in the form of direct grants was announced by the government in November 2022, reported by Energy-Storage.news at time, and will go towards at least 616MWh of battery storage projects. The European Commission has approved a EUR103 million state aid scheme from the government in Romania for battery storage projects.

Does Romania have a storage policy?

In response to EU Regulation 2019/943, which clarifies the role of storage and its ownership status, the Romanian authorities transposed in Law 155/2020 (amending Energy Law 123/2012) specific provisions related to new storage facilities and their management rules.

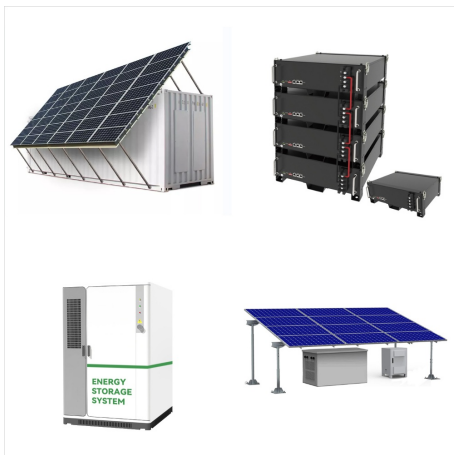
Why does Romania need a new energy system?

The Romanian energy system is currently highly dependent fossil fuels, centralised, and to a good extent technically obsolete, being in serious need of overhaul in order to sustain the upcoming energy transition.

# COMMUNITY ENERGY STORAGE SYSTEM ROMANIA



Romania expects its overall energy storage to amount to at least 2.5 GW in operating power at the end of 2025, and to expand to as much as 5 GW a year later, local media reported, citing Minister of Energy Sebastian Burduja. In April, Romania's largest battery storage system, of 24 MWh, was put into operation. It is the first phase of a



Romania's Ministry of Energy has reached two additional milestones under the National Recovery and Resilience Plan related to battery storage capacities and PV panel production. Romania launches new call for energy storage projects. December 5, 2024. Climate. Driving climate action and innovation: insights from the 5th Budapest Climate Summit.



Sebastian Burduja, minister of energy, said storage is "the zero priority" of Romania's energy system. "After the success of the [national recovery and resilience plan] PNRR call for the storage of green energy in batteries, we attracted another 150 million euros, non-refundable funds, from the Modernization Fund, a call that we are

# COMMUNITY ENERGY STORAGE SYSTEM ROMANIA



Romania's Ministry of Energy has announced a new ???150 million funding call under the Modernisation Fund to support investments in battery storage, enabling the use of renewable energy even during periods without wind or sunlight. The initiative aims to enhance energy system balance and reduce costs for consumers, according



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).

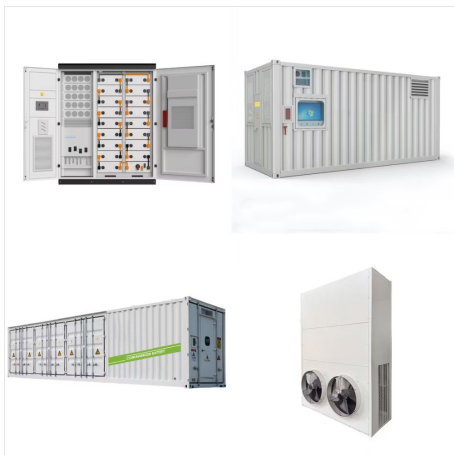


Finland and Greece are also using the funding pot to support energy storage projects. Romania is currently targeting 30.7% renewable generation in its electricity mix by 2030. The country hasn't had many utility-scale energy storage projects in recent years but a booming solar market is set to help the battery storage follow on.

# COMMUNITY ENERGY STORAGE SYSTEM ROMANIA



Also using the Recovery and Resilience facility, the Ministry of Energy of Romania has awarded grants to a handful of energy storage projects. Minister of Energy Sebastian Burduja yesterday (4 November) signed off some €30 million of support for five battery energy storage system (BESS) projects totalling 791.48MWh. They are:



Romanian renewable energy developer Monsson has commissioned the largest energy battery storage system in Romania as part of the country's first hybrid photovoltaic-wind-battery project. Installed at the 50 MW Mireasa Wind Park, in Constanta county, the storage unit has a capacity of 24 MWh (6 MW x 4 hours) and represents the first stage of



An existing "community battery" system in Western Australia. Image: Western Power. The Australian Renewable Energy Agency (ARENA) has approved AU\$143 million (US\$94 million) in funding for community battery energy storage installations under its Community Battery Funding Round 1 initiative.



# COMMUNITY ENERGY STORAGE SYSTEM ROMANIA



The first community battery energy storage system (BESS) has been switched on as part of the "Power Melbourne" initiative in Victoria, Australia. The City of Melbourne Council revealed yesterday (26 June) that the community battery was turned on at Council House. To grow Power Melbourne's pilot network, more batteries will be installed at



Monsson Group is due to get regulatory approval for a hybrid power plant project consisting of a wind farm, photovoltaic unit and the largest battery energy storage system in Romania. The Romanian Energy Regulatory Authority (ANRE) is about to give the green light to Monsson Group for a hybrid wind-solar-storage facility in Dobruja (Dobrogea



As the Romanian Ministry of Energy takes steps to encourage investments in standalone battery energy storage systems (BESS) through support schemes and an improved tariff regime, one regulatory challenge ???

# COMMUNITY ENERGY STORAGE SYSTEM ROMANIA



Green Gravity, an Australian energy storage startup, says it will explore opportunities to deploy its gravitational energy storage technology in Europe, after signing an agreement with Romanian



The Bondi BESS (above) is a 160kW/412kWh system. Image: Ausgrid. Australian network company Ausgrid has launched a new energy storage-as-a-service (ESaaS) offering alongside Origin Energy and EnergyAustralia whilst launching its ninth community battery energy storage system (BESS) in Bondi, the eastern suburb of Sydney, New South Wales.

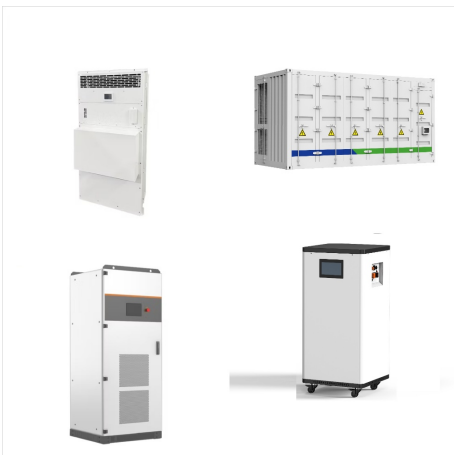


The National Energy System has many congested areas where battery energy storage could help, and Romania should think about strategies 5-7 years ahead, as things have entered an irreversible path, said Irene Mihai, Policy Officer at the Romanian Photovoltaic Industry Association (RPIA), at the conference "Battery Energy Storage Systems ??? BESS Romania", ???

# COMMUNITY ENERGY STORAGE SYSTEM ROMANIA



LSG Romania started the construction works for a 7 MW Battery Energy Storage System, the first and biggest storage system in Romania used for automatic Frequency Restoration Reserve (short form aFRR, a form of grid balancing). Battery Energy Storage Systems (short from BESS) will become more and more important in the coming years, especially in



Huawei Technologies Romania aims to achieve a 1 GW energy storage capacity locally within the next two years, aligning with the growing need for energy storage and renewable energy integration. This ambitious target, disclosed by Vlad Doicaru, Vice President of Huawei Technologies Romania, underscores the company's commitment to advancing



Duke Energy's Community Energy Storage project is highlighting how the available value streams for an energy storage system are highly dependent on the location of the system. Located at the "edge of the grid," or near the customer premise, community energy storage (CES) systems are capable of creating unique value because of their proximity to the customer.

# COMMUNITY ENERGY STORAGE SYSTEM ROMANIA



It could be said that an energy storage system is community storage if it is (1) located within a community with defined boundaries, (2) serves such a community or (3) both of these things. This



Romania will have more than 200 MWh installed in electricity storage units by the end of this year, but connection requests are approaching 25,000 MW, said Costel Constantin, director of the NES Planning and Operation Department of the National Energy Dispatching Centre. "There are individual projects as well as mixed projects, along with photovoltaic and ???



Romania's Prime Batteries Technology and its partner Monsson have brought online what they say is the biggest battery energy storage system (BESS) in Romania, a facility with a capacity of 24 MWh.



# COMMUNITY ENERGY STORAGE SYSTEM ROMANIA



This report analyses the potential of some of the main energy storage technologies, presenting their respective advantages and disadvantages that need to be considered when evaluating the likelihood, scale, and speed of ???



Romania expects its overall energy storage to amount to at least 2.5 GW in operating power at the end of 2025, and to expand to as much as 5 GW a year later, local media reported, citing Minister of Energy Sebastian ???



The Ministry of Energy has fulfilled two more milestones in the PNRR, for storage capacities in batteries and the production of photovoltaic panels. Sebastian Burduja, Minister of Energy: "Romania assumes storage as ???

# COMMUNITY ENERGY STORAGE SYSTEM ROMANIA



The proposed battery energy storage system (BESS) will be built in the Fantanele commune in Mures County, central Romania. The capacity will be installed at an estimated cost of EUR 21.8 million, excluding Value Added Tax (VAT).



The Ministry of Energy has fulfilled two more milestones in the PNRR, for storage capacities in batteries and the production of photovoltaic panels. Sebastian Burduja, Minister of Energy: "Romania assumes storage as the zero priority of the national energy system, and through the contracts signed today on PNRR we will already reach 20% of the



Romania aims to have at least 2.5 GW of battery energy storage systems (BESS) in operation by next year and to surpass 5 GW of capacity by 2026 under a plan that is seen to help it cope with high energy prices.

# COMMUNITY ENERGY STORAGE SYSTEM ROMANIA



Romania aims to exponentially grow its energy storage fleet over the next couple of years, as it works on its plan to deliver 36% of the nation's energy to come from renewables by 2030, with 8.3 GW of solar and 7.6 GW of ???



The community energy storage system can also assist the local network in the event of power outages and equipment failures. It can provide black start function to power equipment, helping it to back online quickly and ???