

Bulgaria develops energy storage project

Why does Bulgaria plan electricity storage projects?

Bulgaria plans electricity storage projects to enhance system balance, strengthen its export position, and ensure cross-border flexibility. Bulgaria has a unique asset in its energy portfolio being Chaira Pumped Storage Hydropower Plant (' PSHPP '), with a production capacity of 864 megawatts and a pumping capacity of 788 megawatts.

How many project proposals were submitted in Bulgaria's energy storage procurement procedure?

A total of 151 project proposals were submitted in Bulgaria's standalone energy storage procurement procedure named RESTORE, which is seeking to support the construction and commissioning of renewable energy storage facilities with a cumulative minimum usable capacity of 3 GWh.

How much money has Bulgaria received for energy projects?

The Ministry of Energy of Bulgaria has received 151 project proposals worth nearly BGN 5 billion (\$2.7 billion), more than four times the available funding.

When will a Bulgarian electricity project be implemented?

The investments under the procedure must be implemented and the facilities connected to the electricity transmission and distribution networks on the territory of Bulgaria and put into operation by March 2026. In May 2025, the degree of maturity of the projects and their implementation will be checked.

What is the largest battery energy storage system in Bulgaria?

The system is the largest in Bulgaria. Image: Renalfa IPP. A 25MW/55MWh battery energy storage system (BESS) has been commissioned in Bulgaria, Eastern Europe, by operator Renalfa IPP, using technology provided by Chinese firms Hithium and Kehua.

With its ultra-large capacity in the ampere-hour range, it is specifically developed for the 4-8 hour long-duration energy storage market. By using 2Cell 1175Ah, the energy storage system integration efficiency increases by 35%, significantly simplifying system integration complexity, and reducing the overall cost of the DC side energy storage system by 25%.

Electrification of society with 100 percent renewable energy calls for solutions that will allow the participants in the energy grid to microbalance the energy between themselves, alleviate grid congestion, and at the same time ...

Renalfa IPP started commercial operation of its first utility scale 25MW/55 MWh Battery Energy Storage System (BESS) at the beginning of June. The BESS is Bulgaria's southwestern city of Razlog. It is connected to the TSO grid and co-located with a 33 MWp PV plant. The BESS enables the time shift of the solar peak production and arbitration on the ...

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A call for new energy storage capacity in Bulgaria has awarded 9,712.89 MWh of projects with a total investment value of BGN 1.149 billion (USD 675.8m/EUR 587.5m), the ...

The Bulgarian Ministry of Energy has launched two renewables-plus-storage tenders to the tune of BGN 535 million (\$298 million), accepting bids from companies in all sectors except agriculture ...

Bulgaria's Ministry of Energy will finance 82 standalone renewable energy storage projects with a combined grant budget of BGN 1.154 billion (~\$675 million) under the EU-backed RESTORE ...

The largest grid-scale BESS projects online that Energy-Storage.news has reported on are a 55MWh project by independent power producer (IPP) Renalfa and a 17.8MWh commissioned by China-based ...

Stationary battery manufacturer Hithium and solar project EPC provider Solarpro have announced a strategic partnership, with their first project to come in Bulgaria. Hithium has agreed to supply the battery products to a 55 MWh energy storage project, for which Solarpro is providing turnkey EPC services. The new plant will support a photovoltaic installation in [...]

ESS is a leading provider of long-duration energy storage solutions ideally suited for C&I, utility, microgrid and off-grid applications. Using food-grade, earth-abundant elements like iron, salt, and water for the electrolyte, its innovative iron flow battery system is changing how the industry deploys energy storage.

The selected projects will deliver a total usable energy storage capacity of 9,712.89 MWh, the Ministry of Energy said on April 17, more than three times the minimum target of 3 ...

Prague-based Rezolv Energy bought a 229 MW solar power project in Bulgaria, set to become the biggest in the country. The facility is scheduled to come online in 2025. Renewable energy developer Rezolv ...

The energy ministries of Bulgaria and Romania have both revealed the results of EU-backed tenders for renewables and energy storage, with gigawatts of energy storage being supported. Bulgaria supports 3.1GW of ...

The Renalfa group of companies said it completed photovoltaic projects with an overall peak capacity of 6 GW in Europe and the Middle East. It invests in and develops solar, wind, energy storage and power-to-X (PtX) projects in Eastern Europe. Toki is a challenger utility specializing in green energy supply and market integration of renewables.

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Following a three-month delay, the Ministry of Energy of Bulgaria combined five planned procedures for

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grants for energy storage facilities into three and launched calls for two of them. The aim is to support the buildout of renewable electricity plants, with which the subsidized systems would be integrated into hybrid power plants.

A total of 151 project proposals were submitted in Bulgaria's standalone energy storage procurement procedure named RESTORE, which is seeking to support the construction and commissioning of renewable energy ...

Bulgaria will finance 82 projects worth over 1.14 billion leva (\$662 million/583 million euro) under an EU-funded initiative to build renewable electricity storage facilities with a total ...

The Ministry of Energy of Bulgaria has received 151 project proposals worth nearly BGN 5 billion (\$2.7 billion), more than four times the available funding. Advertisement ... A total of 151 project proposals were submitted in Bulgaria's standalone energy storage procurement procedure named RESTORE, which is seeking to support the construction ...

Hithium will supply 16 energy storage containers with a 3,44 MWh capacity, based on the company's 280 Ah cells, which claim to have an extra-long expected lifespan. They also feature a wide operating temperature range, thus ...

Jens Rasmussen, CEO of the Danish renewable energy developer headquartered in Hobro, expressed optimism in an interview with Capital.bg that 2 GW of capacity could be installed in Bulgaria in the next ten years. He revealed the first project would be for a 250 MW solar power plant near the village of Tenovo in Yambol province in the east.

The McNeal Solar Farm, completed by Silicon Ranch recently in Arizona. Image: Business Wire. Arizona Electric Power Cooperative (AEPCO) has received board approval to deploy a solar-plus-storage project with up to 940MWh of capacity, after two smaller co-operatives completed smaller co-located projects in the state.

The Bulgarian government regards the development of solar energy as an important means to alleviate the energy crisis and promote green development. Recently, it was announced that the St. George solar power generation project in the Silistra region of the northeast will start construction before the end of this year. According to reports ...

However, the state-owned hydropower plant operator, part of Bulgarian Energy Holding, is yet to fully cover financing. The pilot project for adding battery energy storage to the Vacha 1 hydropower plant, reconstructed in 2023, is planned for completion by the end of the year, the article reads. The 14 MW facility was built in 1933.

The Tenevo plant will add 238 MW of solar generation capacity to the Bulgarian national energy system, with a long-term plan to add on a 250MW capacity of behind-the-meter energy storage. This is an important project

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to advance towards Bulgaria's ambitious net-zero greenhouse gas emissions target by 2050 and reduce reliance on coal generation ...

The Ministry of Energy of Bulgaria prepared EUR 589 million in grants for standalone energy storage projects. The deadline for applications is November 21. With the surge in photovoltaic capacity, ambitious plans for renewables overall and a collapse in the coal power segment, Bulgaria needs urgent grid upgrades alongside energy storage.

Progress on key projects for new nuclear capacities in Bulgaria, diversification of fresh nuclear fuel and spent fuel storage, as well as prospects for using small modular reactors to successfully and timely respond to the challenges of decarbonization and energy security, were among the main topics discussed during the first meeting of the Steering Committee under the ...

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Web: <https://www.drogadomorza.pl/contact-us/>

Email: energystorage2000@gmail.com

WhatsApp: 8613816583346

