

## Global PV Storage Insights

# Total investment cost of household energy storage project in Bulgaria



## Overview

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That round selected 82 standalone renewable energy storage projects, with a total investment exceeding 1.15 billion levs (\$675 million), under the EU-funded initiative. The chosen projects will deliver a combined usable energy storage capacity of 9,712.89 MWh - more than three times the original 3.

Total budget for the RESTORE tool amounts to EUR 602 million. The highest allowed grant per applicant and for one project at most is EUR 75.9 million. The program is set to cover up to 50% of costs, but no more than EUR 190,000 per MWh, excluding value-added tax. The public call would be for.

The Ministry of Energy of Bulgaria has selected 82 winning energy storage projects for a share of BGN 1.15 billion (€588 million/US\$670 million) in financial support. The scheme will support the construction and commissioning of 82 standalone energy storage projects with a total of.

Under the RESTORE initiative, launched through Bulgaria's National Recovery and Resilience Plan (NRRP), the Ministry of Energy has selected 82 projects that will collectively receive BGN 1.15 billion (approximately \$675 million) in public funding. This investment aims to expand the country's energy.

New investments in renewable energy generation, primarily solar photovoltaics (PV) in Bulgaria and neighboring countries, drove down power prices during periods of high supply. In May 2023, electricity generation from coal power plants slumped 58% compared with the previous May, while solar PV had.

Bulgaria's Ministry of Energy has awarded a total of 9,712.89 MWh under its

2024 standalone energy storage tender, representing 3 times the original target of 3,000 MWh. The tender was launched last year, aiming to significantly increase the share of renewable energy, mainly wind and solar, in the. Why is energy storage growing in Bulgaria?

Energy storage in Bulgaria is expanding rapidly as the government awards nearly 10 GWh of capacity to 82 projects, boosting renewable energy reliability and grid stability.

How much money does the NRRP provide for energy projects in Bulgaria?

Under the RESTORE initiative, launched through Bulgaria's National Recovery and Resilience Plan (NRRP), the Ministry of Energy has selected 82 projects that will collectively receive BGN 1.15 billion (approximately \$675 million) in public funding.

How will the selected storage systems be distributed in Bulgaria?

The selected storage systems will be geographically distributed across Bulgaria and connected either to the national transmission grid or local distribution networks. All awarded projects must be operational by March 2026.

Will a battery energy storage system be integrated with renewable electricity plants?

Bulgaria already held the first two tenders for battery energy storage systems (BESS) that would be integrated with renewable electricity plants. Earlier this month, Renalfa IPP has started the commercial operation of its first utility-scale battery energy storage system.

What is a public call for energy storage?

The public call would be for individual projects for 10 MW to 300 MW in operating power and storage duration of at least two hours, translating to 20 MWh to 600 MWh in capacity. The scheme is aimed at supporting a minimum of 3 GWh in energy storage capacity. Eligible costs are calculated from March 9, 2023 until March 31, 2026 at the latest.

## Total investment cost of household energy storage project in Bulgaria



### Green energy powers the "Country of Roses" - ...

Sigenergy, in partnership with the leading Bulgarian energy company Trakia MT, has successfully completed a 20MWh utility-scale co-located project in Malko Tarnovo, located in southern Bulgaria



### Bulgaria: Energy Storage Infrastructure on the Rise in ...

In recent years, Bulgaria has increasingly prioritized the development of energy storage infrastructure as part of its broader transition to

### Bulgaria installs over 9 GWh of batteries, with over ...

Bulgaria will finance 82 independent renewable energy storage projects worth over 1.15 billion leva (588 million euros) under the EU-funded program called RESTORE, the Energy Ministry in Sofia announced last week. ...



### Bulgaria: Energy Storage Project Call Oversubscribed ...

The call for autonomous energy storage projects in Bulgaria received proposals totaling EUR2.55 billion, 4.3 times the allocated budget of EUR581 million. However, access to funding remains uncertain.

a more sustainable and resilient energy system.  
With growing renewable energy ...



## **BESS Costs Analysis: Understanding the True Costs of Battery Energy**

Battery Energy Storage Systems (BESS) are becoming essential in the shift towards renewable energy, providing solutions for grid stability, energy management, and ...

## **Bulgaria Invests EUR590 Million in Energy Storage**

The European Union has approved Bulgaria's plan to support the construction of new energy storage facilities with a total capacity of at least 3 GWh. The project budget is EUR590 million, fully funded by the EU's Recovery ...



## **Bulgaria finalises EUR600m funding for 10GWh of energy**

...

The scheme opened for bidding in August 2024. It appears to be separate from one targeting both renewables and storage, also with Recovery and Resilience funding, which concluded in November 2024 awarding funding ...

## Energy Storage Investments - Publications

As investment in renewable energy generation continues to rise to match increasing demand so too does investment, and the opportunity to invest, in energy storage. ...



## Bulgaria Is Promoting Standalone Battery Storage ...

The selected projects will deliver a total usable battery energy storage system (BESS) capacity of 9,712.89 MWh, the Ministry of Energy said on April 17, more than three times the minimum target of 3 GWh originally set by ...

## Bulgaria

Bulgaria's recovery and resilience plan calls for deployment of a minimum of 1.4 GW of renewable energy with storage in Bulgaria, including an investment in renewable and storage facilities that will be financed by EUR 342 ...



**Low Voltage Lithium Battery**

**6000+** Cycle Life

## Bulgaria: Energy Storage as a Catalyst for a Changing ...

The Current State of the Bulgarian Power Market: Why is Energy Storage More Relevant than Ever? The Bulgarian power sector is currently attracting significant interest from foreign and ...

## An Outlook on 2025: Energy in Bulgaria

CEELM: What are the main/largest energy projects you expect to be finalized in Bulgaria in 2025? Piperkova: To name a few, we expect to have the first Enka project in Bulgaria - the Kameno 40-megawatt peak photovoltaic project - in ...

### ESS



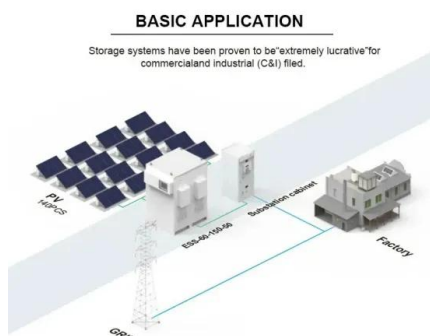
 **LFP 12V 200Ah**

## Bulgarian tender awards nearly 10 GWh of energy ...

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 GWh originally set by the tender. The ...

## Bulgaria's Battery Storage Market

Currently, Bulgaria's electricity market offers an opportunity for EUR110 (\$122) per MWh profit on battery energy storage with two hours of discharge capacity using energy arbitrage. Rystad Energy 's analysis estimates battery ...



## Bulgaria outlines EU-funded tender for standalone ...

Bulgaria is relying heavily on battery technology and energy storage overall in its energy transition. Belgian company ABEE launched a EUR 1.1 billion project in December for a battery plant, recycling facility and a ...

## Solar energy projects Bulgaria

Bulgaria's Ministry of Energy has officially announced the final results of the country's first renewable energy auction. In this procurement event, the Bulgarian government allocated a ...



## **Bulgarian tender for battery storage awards 9,713 ...**

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 Balkan country's energy ministry said on Thursday.

## **Hithium launches 55MWh BESS in Razlog, Bulgaria**

Hithium has launched a 55 megawatt hours (MWh) battery energy storage system (BESS) project in Razlog, southwestern Bulgaria. The project, the largest in Eastern Europe, has been realised by Solarpro, a ...



## **Green Energy Powers the 'Country of Roses': Sigenergy's 20 MWh Project**

Sigenergy, in partnership with the leading Bulgarian energy company Trakia MT, has successfully completed a 20 MWh utility-scale co-located project in Malko Tarnovo, ...

## How much does it cost to build a battery energy ...

How much does it cost to build a battery in 2024? Modo Energy's industry survey reveals key Capex, O& M, and connection cost benchmarks for BESS projects.



## Bulgaria

Energy's core mission is to provide businesses with clean and green energy at affordable prices, helping companies easily plan their energy budgets and achieve their ESG goals. Energy has ...

## Bulgaria: Energy Storage as a Catalyst for a Changing ...

Moreover, given balancing costs can make up to 10 percent of the final electricity prices in Bulgaria, utilizing energy storage to reduce system balancing costs will be passed on to reduce ...



## Bulgaria's NEK to equip five hydropower plants with battery storage

The company earmarked EUR 3.48 million from its own funds for the investment. The reconstruction has cost it EUR 4.91 million. Bulgaria craves energy storage for flexibility, ...

## Bulgaria launches renewables-plus-storage tenders

The first tender, with a total budget of BGN 107.6 million, will finance the construction of solar and wind projects and co-located energy storage facilities with installed capacities between 200

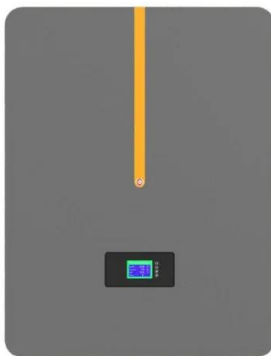


### Energy storage costs

Energy storage technologies, store energy either as electricity or heat/cold, so it can be used at a later time. With the growth in electric vehicle sales, battery storage costs have fallen rapidly ...

## Bulgaria grants EUR 587 million to 82 battery storage projects

Developers of 82 standalone battery projects in Bulgaria, for an overall 9.71 GWh in capacity, got approval for EUR 587 million in subsidies.

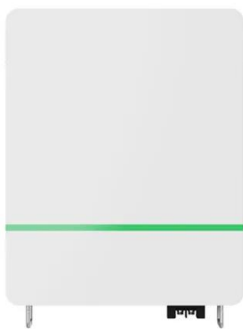


## Battery-Based Energy Storage: Our Projects and ...

TotalEnergies develops battery-based electricity storage solutions, an essential complement to renewable energies. Find out more about our projects and achievements in this field.

## Bulgaria Invests EUR590 Million in Energy Storage

European Union Approves Bulgaria's Plan for Energy Storage Development The European Union has approved Bulgaria's plan to support the construction of new energy ...

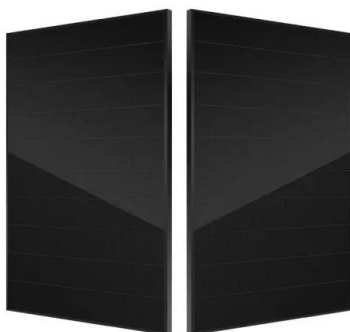
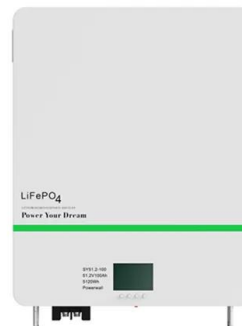


## Sermatec Secures Energy Storage Project in Bulgaria

Shanghai Sermatec Energy Technology secured a 430 MWh energy storage project in Bulgaria, offering a full-lifecycle solution to optimise grid efficiency. Sermatec began ...

## Bulgaria launches consultation on 1.9 GWh energy storage ...

The grants will cover up to 50% of the eligible costs with a ceiling of BGN 156,466 (\$86,056) (excluding VAT) per 1 MWh of usable energy storage capacity. Under ...



## Bulgaria Unveils the Largest Battery Storage System in the Balkans

Bulgaria has officially inaugurated the largest battery energy storage system (BESS) in the Balkans, boasting a capacity of 496.2 MWh. This groundbreaking facility, located ...

## Configuration optimization of energy storage and economic

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In this work, the optimal configuration of energy storage and the optimal energy storage output on typical days in different seasons are determined by considering the objective ...



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