

## Solar Energy South Africa

# Eera energy storage Bulgaria



## Overview

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How much money is needed for energy storage projects in Bulgaria?

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.

Is Bulgaria planning a new energy storage facility?

Bulgaria is developing a plan for another two large facilities of the kind. The Ministry of Energy acknowledged that it is issuing the public call for standalone energy storage units after a long delay.

Why do we need energy storage solutions in Bulgaria?

Establish a reliable energy system with greater share of intermittent generation. In the context of Bulgaria's energy landscape, energy storage solutions present a diverse array of benefits to various stakeholders stemming from its unique ability to time-shift energy and rapidly respond when called upon. The applic.

Can battery-based energy storage improve peaking capacity in Bulgaria?

Storage can also offer greater flexibility and efficiency in managing the grid. Furthermore, and although hydropower storage already makes up a significant source of peaking capacity in Bulgaria, battery-based energy storage can address peaking needs during times of droughts, meet requirements for more distributed peaking po.

How much is the energy investment in Bulgaria worth?

The ministry released a statement a day prior to the application window's opening. Energy minister Vladimir Malinov said the investments, worth up to BGN1,153,939,700 (US\$657.4 million) "will guarantee the security and

stability of the Bulgarian electricity system.”.

How much money will be invested in Bulgaria's electricity system?

Energy minister Vladimir Malinov said the investments, worth up to BGN1,153,939,700 (US\$657.4 million) “will guarantee the security and stability of the Bulgarian electricity system.” Tender bids must be submitted electronically, with more information available on this portal.

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### Energy Storage & Conversion Manufacturing

AMMTO's Role within the DOE Energy Storage Landscape Basic Energy Sciences (BES) Supports basic science research to understand, predict, and control the interactions of matter and energy at the electronic, atomic, and molecular levels Vehicle Technologies Office (VTO) Supports exploratory research to addresses fundamental issues of materials and

### [EERA Joint Programme Energy Storage](#)

Starting in 2021, EERA JP ES supports its members through student and young researcher exchanges. The main objectives of the EERA JP ES mobility scheme is to: reinforce collaboration within JP ES in order to realise new breakthrough energy storage solutions, increased understanding and deepening research relationships,



### Whitepaper from EERA: Thermal Energy Storage could save the ...

Thermal Energy Storage could save the EU over 500Mt CO2 per year, says a new whitepaper from the European Energy Research Alliance. Our Solutions. (EERA JP EEIP), a research alliance which aims to support energy-intensive industry to meet the European net-zero greenhouse gas targets. The Paper has drawn on experts from the UK, Netherlands

## CK EERA JP ES STEERING COMMITTEE M N 23 5 4 te A )

Joint Programme on Energy Storage under the European Energy Research Alliance EERA JP ES STEERING COMMITTEE MEETING NO 23 Venue: TU Wien, Karlsplatz 13, 1040 Vienna Hörsaal 7 Schütte-Lihotzky (ground floor, see map on the bottom Date: Tuesday, 5 December 2023 Time: 09:00 -13:00 (CET) Agenda: Record of Decisions:



## Bulgaria and Romania grant funding to gigawatts of energy storage

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 renewables and 1.1GW of storage. The Ministry of Energy revealed the results last week (2 November) for the EU-backed tender, which

## [EERA Joint Programme Energy Storage](#)

European Energy Storage Technology Development Roadmap The roadmap is a joint effort between the European Association for Storage of Energy (EASE) and the Joint Programme on Energy Storage (JP ES) under the European Energy Research Alliance (EERA). Together, EASE and EERA members provide a strong foundation of industrial and research expertise, which ...



## Bulgaria's Ministry of Energy

## opens 3GWh tender

The Bulgaria's Ministry of Energy began accepting applications yesterday (21 August) in tenders for 3,000MWh of energy storage capacity. Called the National infrastructure for the storage of electricity from renewable ...



## [EERA Joint Programme Energy Storage](#)

EERA covers the complete range of low-carbon energy technologies and systematic topics. JP ES offers its super-programmes the opportunity to organise online or face-to-face events focusing on young researchers and their work. In case you are an EERA member and don't have login details, please contact [a.schneider@eera-set](mailto:a.schneider@eera-set).



## Bulgaria launching grants for renewable, 350MW of ...

Bulgaria is launching a public consultation into a grant auction scheme for renewable energy projects and up to 350MW of energy storage facilities. It is the country's first clean energy auction, and will also support ...

## [EERA Joint Programme Energy Storage](#)

The Sub-program 6: Techno-economics and sustainability of energy storage technologies of the EERA Joint Programme Energy Storage (JP ES) offers all EERA JP ES PhD students the possibility to present and discuss their work to their peers ...





## Analytic Challenges to Valuing Energy Storage

and capital cost of energy storage devices. Thus, determination of multiple price points at which energy storage technologies become the cost effective solutions is both a rich field of study and a challenging analytical task. Market Conditions - Markets are continually evolving, and the long-term value of energy storage is difficult to capture.

## [Underground Pumped hydro storage](#)

Since decades pumped hydro storage is a proved technology in the energy-management system to balance the differences between generation and demand of electrical energy. Similar to conventional hydro storage on the surface, underground pumped hydro storage has upper and lower water reservoirs,



## Building Technologies Office , Department of Energy

The Building Technologies Office (BTO) conducts research, development, and demonstration activities to accelerate the adoption of technologies and techniques that enable high-performing, affordable buildings that meet Americans' need for resiliency and health while also supporting a reliable energy system.

## [EERA JP Energy Storage Summer News 2023](#)

Energy Storage-SubProgramme 3 (JP ES-SP3),  
Geothermal (JP GE) and Energy Efficiency in

Industrial Processes (JP EEIP) a workshop on Applications for Industrial Thermal Energy Storage is foreseen. The event will be held on 7 November 2023 in Utrecht, The Netherlands.



## [EERA Joint Programme Energy Storage](#)

Storage Research Infrastructure Eco-System (StoRIES) Proposal for the LC-GD-9-1-2020 - European Research Infrastructures capacities and services to address European Green Deal challenges - has received approval for funding from the EU, aiming to connect facilities and researchers across the continent The StoRIES project, developed within the framework of the ...

## [EERA Joint Programme Energy Storage](#)

The EERA Joint Programme on Energy Storage (JP ES) was officially launched in 2011 and is coordinated by Karlsruhe Institute of Technology in Germany. This JP strongly fosters the efficient development of new energy storage technologies and supports the SET Plan objectives and priorities by "pooling and integrating activities and resources



## [Solar Energy Technologies Office](#)

Six projects funded by the Inflation Reduction Act will help improve planning, siting, and permitting for large-scale renewable energy and storage. DOE also launched a prize to advance the co-



location of solar energy production and cattle grazing.

## Pumped Hydro Energy Storage

developments for pumped-hydro energy storage. Technical Report, Mechanical Storage Subprogramme, Joint Programme on Energy Storage, European Energy Research Alliance, May 2014. [4] EPRI (Electric Power Research Institute). Electric Energy Storage Technology Options: A White Paper Primer on Applications, Costs and Benefits. EPRI, Palo Alto, CA



## 2021 Energy Storage Summer Internships

The U.S. Department of Energy (DOE), Office of Energy Efficiency and Renewable Energy (EERE) Energy Storage Internship Program offers 10-week, hands-on, practical internships at U.S. national laboratories. Participants will conduct research or other technical activities under the guidance of a mentor who is a technical staff scientist or

## **APPLICATIONS FOR INDUSTRIAL THERMAL ENERGY STORAGE**

EASE/EERA Energy Storage Technology Development Roadmap (2017) and the mission-oriented Study on Energy Storage to speed up

the Energy Transition (2018). She is author/co-author of over 40 publications in peer-reviewed international scientific journals and she has participated in 10 European projects dealing with energy storage, including two



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