

## SolarInvert Energy Solutions

# Photovoltaic energy storage power station in Bulgaria



✓ 100KWH/215KWH

✓ LIQUID/AIR COOLING

✓ IP54/IP55

✓ BATTERY 6000 CYCLES

## Overview

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The new solar generator in Oryahovo combines over 100,000 PV modules with 107 MWh of energy storage, supporting energy trading and strengthening Bulgaria's power grid. 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.

How big is Bulgaria's solar PV capacity in 2024?

At the close of 2024, Bulgaria's solar PV capacity had already reached 3.91 GW—an annual increase of over 1 GW. These developments come on the heels of Bulgaria's first renewable energy auction held in late 2024, where more than 3 GW of generation and 1.176 GW of storage capacity were secured.

How much solar power does Bulgaria have?

The solar power plant's estimated output is equivalent to the electricity needs of more than 45,000 Bulgarian households. PPC Group runs an 18 MW wind farm called Garda in the country and has another 550 MW in its renewables project pipeline. The company's overall online green energy capacity is 5.5 GW.

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 many MW of PV capacity is under construction in Romania?

Another 160 MW of PV capacity is under construction in the country. PPC Group is the largest renewable energy producer in Romania, operating 25 wind, photovoltaic and hydroelectric facilities as well as battery storage units.

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.

## Photovoltaic energy storage power station in Bulgaria

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### St. George Solar plant

St. George will be built on the site of the former Silistra airport, a decommissioned airfield covering 165 hectares. The project will comprise nearly 400,000 solar ...

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### Sunotec, Sungrow to deploy 2.4 GWh BESS in Bulgaria, wider ...

Jul 28, 2025 · German-Bulgarian solar photovoltaic (PV) plant developer Sunotec and Chinese solar and wind power equipment maker Sungrow have signed an agreement to install 2.4 ...



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### Sermatec Installs 5.1 MW Battery Energy Storage ...

Oct 21, 2024 · The solution is designed to improve energy storage efficiency, reliability, and safety while mitigating challenges associated with solar over ...

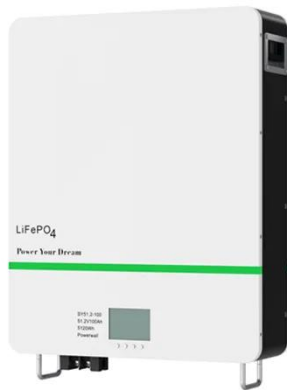
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## Battery energy storage systems The case of Bulgaria:

...

Jan 6, 2025 · Approximately 200 million EUR investments to encourage the combination of new renewables with local electricity storage facilities (totaling around 200 MW); Transformation of ...

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## Bulgaria Experiences Solar Boom as Large ...

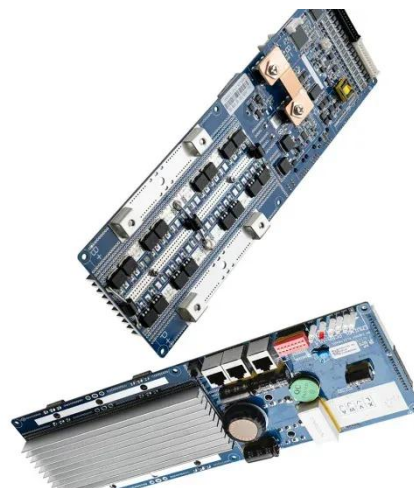
Sep 8, 2023 · The Bulgarian solar energy sector is witnessing a remarkable transformation as the country's solar power capacity surges past expectations, ...

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

Aug 4, 2023 · 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 ...

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## PPC has started construction of a 165 MW photovoltaic park

...



Mar 19, 2025 · PPC Group's development in the Bulgarian Renewable Energy Sources (RES) market is marked by the start of construction of a new photovoltaic power plant with battery ...

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## Bulgaria - pv magazine International

Jan 17, 2025 · Bulgaria's standalone energy storage tender, which aimed to procure at least 3 GWh of cumulative usable capacity, ultimately awarded more than three times that amount.



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## Verila Project, Bulgaria's Largest Solar Power Plant

Dec 19, 2022 · With a nominal output of 124 megawatts peak (MWp), the Verila solar power plant will make a significant contribution to Bulgaria's green ...

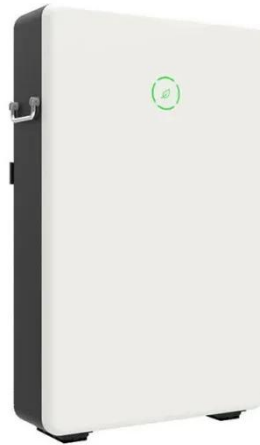
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## [News] Bulgarian SUNOTEC Signed a Contract with Huawei

...

Mar 15, 2024 · EPC SUNOTEC, a leading company of PV and energy storage station in Europe, and Huawei Technologies Bulgaria signed a memorandum of understanding on energy ...

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

Sep 30, 2024 · 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 ...

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## **SCU Commercial and Industrial Energy Storage ...**

Feb 14, 2025 · Three years ago, SCU deployed the country's first 40ft containerized energy storage system at a solar farm in Bulgaria, setting a ...

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

Apr 22, 2025 · Bulgaria's standalone energy storage tender, which aimed to

procure at least 3 GWh of cumulative usable capacity, ultimately awarded ...

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## Eastern Europe's solar surge: spotlight on Bulgaria, Romania, ...

Feb 28, 2024 · With an annual average of sunshine ranging between 2,000 and 2,600 hours across various Bulgarian regions, photovoltaic energy contributed 41% to the energy supply ...

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## Bulgaria: Energy storage - a Catalyst for a Energy Transition

Aug 8, 2023 · 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 ...

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## Bulgaria enjoys solar boom as biggest ...



Aug 31, 2023 · In a matter of months, Bulgaria's total solar power capacity is set to exceed 3 GW, compared to just 1.3 GW at the end of 2021. The lineup in

...

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## OMV Petrom and Enery establish a Joint Venture ...

Jun 23, 2025 · OMV Petrom partners with Enery for EUR200M Gabare solar project in Bulgaria. 400 MW capacity with battery storage makes it Southeast ...

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## New hybrid PV plant from Solaris strengthens Bulgaria's grid

Aug 18, 2025 · The new solar generator in Oryahovo combines over 100,000 PV modules with 107 MWh of energy storage, supporting energy trading and strengthening Bulgaria's power ...

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## PPC adds 88MW Bulgarian solar PV plant to ...

Jun 3, 2025 · The project includes an



energy storage station with a power output of 25MW and an energy storage capacity of 55MWh being built near the solar ...

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## Construction begins on massive, merchant wind ...

Sep 29, 2023 · Konstantin Nenov, director of Bulgaria-based investment firm Renalfa AD, told pv magazine that construction has started on Bulgaria's first ...

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## JA Solar and Solarpro Announce Strategic

Jul 23, 2024 · The company has been listed on Fortune China 500 and Global Top 500 New Energy Enterprises for several consecutive years. About Solarpro Solarpro is a multi ...

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## Fotovoltaichni instalaczii , S`nSA`RVIZ EOOD

We are a service provider in the renewable energy industry. We engineer,

procure, and construct photovoltaic power plants. Moreover, we are focusing on battery energy storage systems. In ...

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## Changes in ZEV 2025: new rules for solar ...

Key changes to the ZEV came into effect in June 2025, easing procedures and deadlines for RES projects. Find out how these changes will accelerate ...

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## Large hybrid energy project takes off near Pernik

Sep 24, 2024 · A new large hybrid energy project, consisting of a photovoltaic plant and a battery energy storage station, has opened in Bulgaria. We are talking about Solaris Park in Pernik, ...

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## Huasun high efficiency HJT modules contribute ...

Apr 15, 2022 · Based on the EU's stated



green energy objectives, Bulgaria has incorporated renewable energy into its key national development blueprint, ...

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## Bulgaria Unveils the Largest Battery Storage ...

May 27, 2025 · Bulgaria has officially inaugurated the largest battery energy storage system (BESS) in the Balkans, boasting a capacity of 496.2 MWh. ...

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## PPC begins construction of 165 MW solar farm ...

Mar 18, 2025 · PPC Group is accelerating its expansion in the Balkans by laying the foundation stone for its Colosseum solar power project in Bulgaria. The ...

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## SERMATEC Unveils 5.1MW/17.8MWh Energy Storage System in Bulgaria ...

Oct 23, 2024 · PVTIME - SERMATEC has launched an innovative 5.1MW/17.8MWh commercial and industrial energy storage system in Bulgaria. This groundbreaking project is set to ...

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## Bulgaria - pv magazine International

Jan 17, 2025 · Bulgaria has completed a 496 MWh battery energy storage system, billed as the largest in the European Union. Crews completed the project in six months with backing from ...

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## Integrated PV Energy Storage Systems , EB BLOG

Oct 22, 2024 · Learn about integrated PV energy storage and charging systems, combining solar power generation with energy storage to enhance reliability ...

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## Bulgaria launches call for grants for standalone energy storage ...



Aug 21, 2024 · 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 ...

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## Energy Storage in Bulgaria Surges with 9.7 GWh ...

Apr 23, 2025 · Energy storage in Bulgaria is expanding rapidly as the government awards nearly 10 GWh of capacity to 82 projects, boosting renewable energy ...

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## Bulgaria energy storage power station

Jan 21, 2025 · Bulgaria: Energy Storage as a Catalyst for a Changing Power costs for imported energy, storage can provide a reliable source of power during peak demand periods on the ...

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## Bulgaria , Energy Storage as a Catalyst for a ...

Aug 4, 2023 · Learn about the current state of the Bulgarian power market and

the potential of energy storage  
applications to revolutionize Bulgaria's  
energy ...

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