

## Global PV Storage Insights

# Expected ROI of home energy storage project in Portugal 2025



## Overview

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How much will Portugal spend on energy storage projects in 2025?

Portugal's Ministry of Energy has announced that it has allocated EUR 100 million (\$104.2 million) to 43 energy storage projects which should be installed by the end of 2025. A total of 79 applications were vying for grant support secured under the country's Recovery and Resilience Plan (RRP).

How much will Portugal spend on energy storage & grid flexibility?

The Portuguese Ministry of Energy has allocated €99.75 million (\$107.6 million) for grid flexibility and energy storage projects which should be installed by the end of 2025. From ESS News Portugal is seeking to promote flexibility and balance its power system with energy storage as it continues to break records for solar energy production.

Can storage replace thermal generation in Portugal?

The pursuit of economic viability by storage facility owners will inherently lead to charging during low-cost hours and discharging during hours that are more economically attractive. Storage can replace thermal generation in constraint markets, easing the grid and supporting Portugal's 2040 phase-out target.

Is there a Bess project in Portugal?

Grid-scale BESS projects have been relatively limited in Portugal to date, although utility Iberdrola did bring online a huge, 40GWh pumped hydro energy storage (PHES) project there in 2022. This isn't just another summit – it's our biggest and most exhilarating Summit yet!.

Can storage increase self-consumption during non-solar hours?

Storage can increase self-consumption during non-solar hours, aligned with Portugal's 2030 goals (5,7GW). The seasonality of consumption in certain locations in Portugal, such as Algarve, combined with new demand hubs such as electrolyzers and data centers, may require flexibility technologies.

How many projects are vying for RRP grant support?

A total of 79 applications were vying for grant support secured under the country's Recovery and Resilience Plan (RRP). Eligible projects were in line for up to EUR 30 million and allowed to be developed both at the transmission and distribution levels. The tender was launched in August 2024 and preliminary results were released last week.

## Expected ROI of home energy storage project in Portugal 2025

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### Eco-Renovations Portugal: ROI & Incentives 2025

This guide, brought to you by PortugalProperty , explores the most impactful energy-efficient renovations, delves into available incentives, and analyses the potential ROI ...

### Galp and Powin launch 5MW battery storage system ...

Electronics Production , April 21, 2025 Galp and Powin launch 5MW battery storage system in Portugal Installed in the southern Portuguese region of the Algarve, the 5MW/20MWh battery system enhances the site's ...



### WILL PORTUGAL SUPPORT 500MW OF ENERGY STORAGE

...

Since then we have seen huge growth in the sector in the US, and we expect to see this to continue into 2025, with several large-scale battery storage projects set to complete in 2025.

### Brussels, 4.6.2025 SWD(2025) 222 final

The labour market continues to improve, helped by migration flows. Portugal's unemployment rate remained unchanged from 2023 to 2024, at

6.5% (see Social Scoreboard in Annex 13). ...



### **CALB Portugal battery factory to start construction this ...**

The project is expected to start construction this year and is scheduled to be completed in 2028. The factory is expected to have an energy storage production capacity of 15 GWh and will adopt the latest generation of ...

### **Portugal allocates funding for 500 MW of energy storage**

The Portuguese Ministry of Energy has allocated EUR99.75 million (\$107.6 million) for grid flexibility and energy storage projects which should be installed by the end of 2025.



### **Solar and Battery Storage Expected to Lead New ...**

In total, new solar projects in 2025 are expected to make up more than 50% of the planned added utility-scale electric generation for 2025. Combined with planned battery storage capacity, the share is 81% of total ...

## Energy Storage Outlook

While power demand is expected to continue to see strong growth in 2025 and beyond, the growth rate of low-carbon energy sources is now close to covering the entire ...



## **Global Energy Storage to Hit 94 GW in 2025, Says BNEF**

The global energy storage sector is on track for another record year in 2025 as utility-scale projects expand into new regions. BloombergNEF (BNEF) forecasts that ...

## **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. ...



## **Spain & Portugal: Galp Breaks Ground on 147MWh Grid-Forming ...**

A 5MW/20MWh BESS project Powin and Hitachi deployed for Galp in Portugal. Image: Powin / Hitachi / Galp. Galp has kicked off construction on five new battery energy ...

## Government approves ambitious package to accelerate energy ...

The Government approved today, 04 October 2024, a set of measures in the Council of Ministers on Energy and Climate with the aim of strengthening the fight against ...



### Utility-Scale ESS solutions

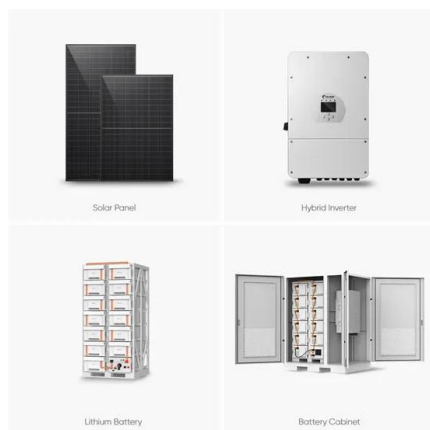


## Energy Storage Roadmap in Portugal

After analyzing the future challenges that Portugal will face and its decarbonization targets, a necessary growth of up to 50% in storage capacity could be anticipated

## Battery Energy Storage Roadmap

The EPRI Battery Energy Storage Roadmap Future State Pillars reflect EPRI's mission to advance safe, reliable, affordable, and clean energy. Click on a Future State Pillar to see the Vision, explore the Gaps, and ...



## Moldova 2025 Energy Storage Project

The Republic of Moldova will install a 75 MW& #32;energy storage system (BESS) and 22 MW internal combustion engines as part of a project funded by the U.S. Government through ...

## Energy storage subsidy programs in Poland for 2024 ...

Poland's 2024-2025 energy storage subsidy programs are a key element in the country's energy transition. With the growing demand for stable energy sources and the integration of renewables into the grid, energy storage facilities take on ...



## Energy storage safety and growth outlook in 2025

Looking ahead: Keys to success Several factors will define the energy storage market in 2025: the continued dominance of LFP chemistry and its downward impact on pricing, increased utility demand for integrated ...

## HOW MUCH WILL PORTUGAL SPEND ON ENERGY STORAGE PROJECTS IN 2025

How to invest in commercial and industrial energy storage projects In this article, we explore three business models for commercial and industrial energy storage: owner-owned investment, ...



## Portugal awards grants to 500 MW of energy storage projects

Portugal's Ministry of Energy has announced that it has allocated EUR 100 million (\$104.2 million) to 43 energy storage projects which should be installed by the end of ...

## Portugal Allocates EUR100 Million for 43 Energy Storage Projects

Portugal's Ministry of Energy has allocated EUR100 million to support 43 energy storage projects, scheduled for completion by the end of 2025. These projects were selected ...

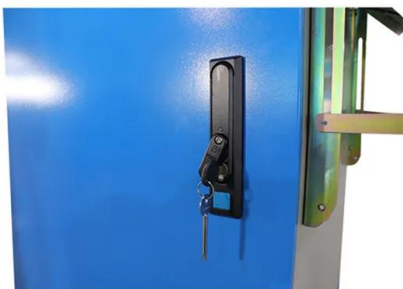


## Energy storage market analysis in 14 European ...

Volatile energy prices and the popularity of photovoltaic self-use have driven demand for residential energy storage, which is expected to continue to grow through 2030. In addition, Germany plans to hold its first capacity market ...

## WILL PORTUGAL SUPPORT 500MW OF ENERGY STORAGE CAPACITY BY 2025

Will energy storage growth continue through 2025? With developers continuing to add new capacity, including 9.2 GW of new lithium-ion battery storage capacity in 2024 through ...



## REPORT: Energy Storage's Meteoric Rise Breaks ...

Grid-scale storage installations are forecasted to reach 13.3 GW in 2025. "After another year of record deployment, energy storage is solidifying its place as a leading solution for strengthening American energy security and ...

## Portugal to hold energy storage auction before January 2026

Portugal will launch a competitive tender for 750 MVA of battery energy storage before January 2026, as part of a broader EUR400 million package aimed at improving grid ...



## CAISO: The state of grid-scale battery energy storage ...

Which major battery projects are currently in testing and expected to reach commercial operation in 2025. How CAISO's Resource Adequacy market is shaping battery investment and financing decisions. To get full access to Modo ...

## U.S. Solar and Energy Storage Set for Major Growth ...

In 2025, over 31 GW of new storage capacity is expected to be built. California and Texas are the leaders in battery storage. The California Independent System Operator (CAISO) is set to add about 6 GW of storage ...



## R.Power targets developing 680 MW of energy storage in Portugal

Polish renewables company R.Power is looking to develop 680 MW of standalone battery energy storage system (BESS) projects in Portugal in support of the ...

## Portugal's Renewable Sector Attracts Larger Investment as ...

...

This level of performance underlines both the opportunities and the challenges ahead: while renewables now dominate the energy mix, ensuring that the system remains ...



## Portugal Residential Energy Storage System Market (2025-2031)

Our analysts track relevant industries related to the Portugal Residential Energy Storage System Market, allowing our clients with actionable intelligence and reliable forecasts tailored to ...

## US Energy Storage Costs Expected to Decrease in 2025, ...

...

Lazard Reports on US Energy Storage Cost Reductions in 2025 According to Lazard, the levelized cost of storage (LCOS) for battery storage in the United States has ...

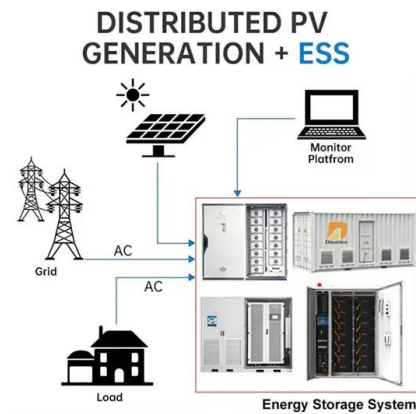


## Spanish storage investment to ease oversupply of renewables

FUTURE FOCUS Investors are increasingly concerned about market volatility, as negative prices deter further investments in renewable projects. To address these ...

## Galp and Powin launch 5MW battery storage system in Portugal

Electronics Production , April 21, 2025 Galp and Powin launch 5MW battery storage system in Portugal Installed in the southern Portuguese region of the Algarve, the ...

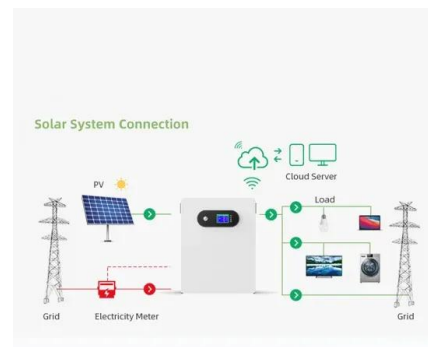


## Energy Storage Rides a Wave of Growth but Uncertainty ...

With developers continuing to add new capacity, including 9.2 GW of new lithium-ion battery storage capacity in 2024 through November 2024 and comparable levels of growth expected ...

## Wind, Solar, Storage Heat Up in 2025

Wind, Solar, Storage Heat Up in 2025 This year, massive solar farms, offshore wind turbines, and grid-scale energy storage systems will join the power grid.



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