

Portugal Energy Storage Power Station





Overview

The Tâmega hydroelectric complex in northern Portugal is one of the largest energy initiatives in the country's history and one of the largest energy storage facilities in Europe. This system includes three dams with a combined capacity of 1,158 MW and two wind farms that will reach 274 MW. Why is Portugal launching a solar energy storage project?

This initiative aims to enhance the flexibility and stability of Portugal's power supply system amid its record-breaking solar electricity production. On July 31, the ministry announced the allocation of €99.75 million through a call for tenders to install energy storage projects totaling 500 MW.

What does Portugal's energy policy mean for the energy sector?

The Portuguese Ministry of Energy has allocated €100 million for grid flexibility and energy storage projects to be completed by the end of 2025. This initiative aims to enhance the flexibility and stability of Portugal's power supply system amid its record-breaking solar electricity production.

What are some power stations in Portugal?

The following page lists some power stations in Portugal . / 38.675; -9.054 (Barreiro Thermal power station) / 40.340; -8.197 (Aguieira Dam) / 41.872; -8.204 (Alto Lindoso Dam) / 41.739; -7.857 (Alto Rabagão Dam) 68?

MW / 41.574639; -7.731111 (Alto Tâmega Dam) / 38.195; -7.497 (Alqueva Dam) / 41.300; -6.470 (Bemposta Dam).

What is Portugal's Energy Strategy?

The strategy includes a target of 20.4 GW of operational PV systems by 2030, comprising 14.9 GW of large-capacity plants and 5.5 GW of decentralized generation. Additionally, Portugal has launched its first tender for biomethane and green hydrogen as part of this comprehensive energy strategy.

Will Portugal produce 80% renewable electricity by 2026?



As part of its new energy strategy, Portugal aims to produce 80% renewable electricity by 2026 and 85% by 2030. The strategy includes a target of 20.4 GW of operational PV systems by 2030, comprising 14.9 GW of large-capacity plants and 5.5 GW of decentralized generation.

What percentage of Portugal's energy is renewable?

The share of renewables in Portugal's energy mix has grown from 27% in 2005 to 54% in 2017, with the last coal-fired power plant closing in 2021. As part of its new energy strategy, Portugal aims to produce 80% renewable electricity by 2026 and 85% by 2030.



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[Tamega Giga Battery Hydroelectric Power Plant, ...](#)

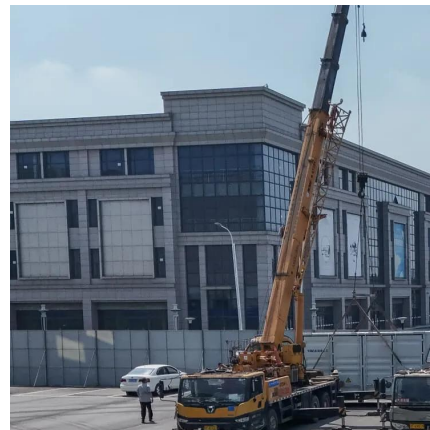
The plant can pump out excess energy during periods of high production and can generate electricity when needed with its substantial ...

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[Portugal and Moldova progress 575MW of BESS ...](#)

Portugal and Moldova have moved forward with battery energy storage system (BESS) procurements with funding from the EU and USAID.

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Galp and Powin to build large-scale energy storage system in ...

The batteries will allow Galp to store the solar energy produced in periods of high generation, and to deploy it during periods of high demand, maximizing the energy's value. ...

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[Portugal Finances 500 MW of Energy Storage](#)

The Portuguese Ministry of Energy has allocated EUR100 million for grid flexibility and energy



storage projects to be completed by the end of 2025. ...

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[Is a Dam in Rural Portugal a Key to Our Alternative ...](#)

When the Portuguese electric power grid needs more electricity, a large multinational power company releases millions of gallons of water from a ...

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[Galp and Powin launch 5MW battery storage system ...](#)

Portuguese energy firm Galp and Powin, a US-based energy storage integrator, completed the commissioning and injected the first ...

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Portugal has 720 MWh of battery capacity awaiting environmental ...

Lisbon-based Endesa subsidiary Newcon40 Unipessoal Lda is developing the Sol de Évora Photovoltaic Solar Plant which would include a 240.72 MW/481.44 MWh battery ...

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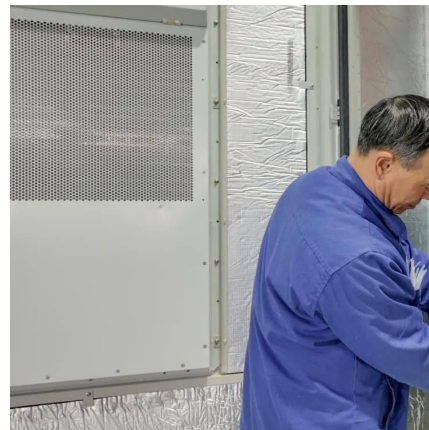




[Portugal Finances 500 MW of Energy Storage](#)

The Portuguese Ministry of Energy has allocated EUR100 million for grid flexibility and energy storage projects to be completed by the end of 2025. This initiative aims to enhance ...

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Galp and Powin launch 5MW battery storage system in Portugal

Portuguese energy firm Galp and Powin, a US-based energy storage integrator, completed the commissioning and injected the first electrons of stored energy to the grid from ...

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[A milestone for hydropower: Successful startup of](#)

With its increasing use of solar and wind power, Portugal has for many years been focusing on the flexible and dynamic potential of pumped storage to stabilize electricity grids.

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[Galp and Powin deliver utility-scale battery system to ...](#)

ALOCOUTIM, PORTLAND, April 11, 2025 - Galp, Portugal's leading integrated energy company, and Powin LLC, a U.S. based global energy storage ...

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Energy storage trends

Therefore, if the storage facility is co-located with a new power production plant, the environmental aspects relating to the storage facility and the production plant will be assessed ...

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HSP2 Plant, Evora

5 days ago · It is part of the High Performance Solar 2 (HPS2) research project located in Évora, Portugal, which is a Concentrating Solar Power (CSP) plant that uses the sun's energy to ...

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Electricity sector in Portugal

Portugal electricity production 1980-2019 Pego power plant Alqueva Dam In 2008, Net electricity use in Portugal (gross production + imports - exports - losses) was 51.2 TWh. Portugal ...

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[Inside La Muela: Europe's largest pumped storage ...](#)

Enlit on the Road visited La Muela, the largest pumped storage hydropower plant in Europe, to find out how Iberdola's giant battery optimizes ...

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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 government's ...

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Galp and Powin to build large-scale energy storage system in Portugal

The batteries will allow Galp to store the solar energy produced in periods of high generation, and to deploy it during periods of high demand, maximizing the energy's value. ...

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[Tamega Giga Battery Hydroelectric Power Plant, Portugal](#)

The plant can pump out excess energy during periods of high production and can generate electricity when needed with its substantial storage capacity. It is equipped with two ...

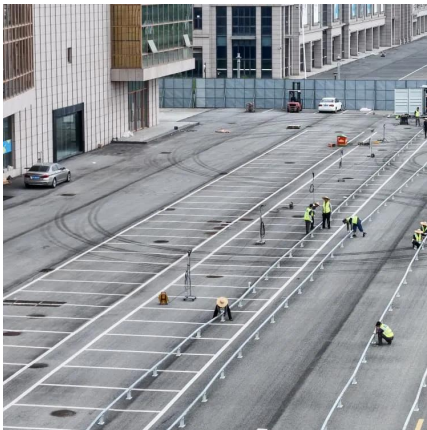
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[Iberdrola's Alto Tâmega Hydroelectric Plant receives ...](#)

Iberdrola has taken another step towards full commissioning of the Tâmega Hydroelectric Complex by successfully connecting one of the two ...

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Tâmega giga battery

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Site visit: Europe's biggest solar-hydro hybrid plant The future of pumped storage hydropower in Spain In anticipation of the increasing number ...

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Graciólica

1 MW PV Power Plant 7,425 MW Battery Power Plant/Battery Energy Storage System (3x 2475 kW) with a usable capacity of 2,6 MWh 4,6 MW Diesel Power Plant (3x 600 kW, 1x 810 kW, 2x ...

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[Galp and Powin join forces for a major energy storage ...](#)

Portuguese multinational energy corporation, Galp and US-based energy storage provider, Powin have partnered to install a 5MW/20MWh utility ...

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[Porto Novo Pumped Storage Power Station: Location and ...](#)

Where Is the Porto Novo Pumped Storage Power Station Located? Nestled in the rugged hills of northern Portugal, the Porto Novo Pumped Storage Power Station stands as a marvel of ...

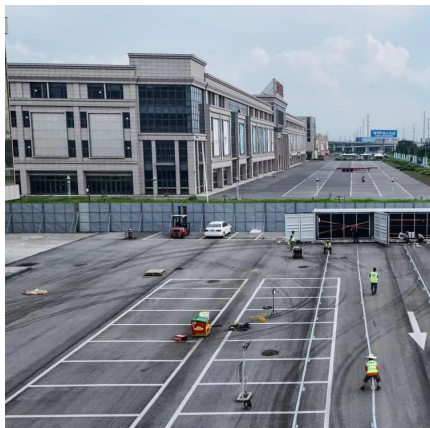
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[Galp and Powin to build large-scale energy storage ...](#)

Image of Galp's solar power plant with rendering of Powin's new battery installation. The 5MW/20MWh system will help Galp to adapt its solar ...

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Flexible energy for the modern grid

Flexible energy for the modern grid Portugal, Gouvães In 2021, ANDRITZ and Iberdrola began commissioning the Gouvães pumped storage power plant in northern Portugal, part of the ...

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[Floating Solar Project Supports Portugal's](#)

[...](#)

Pulido told POWER that Portugal's reliance on renewable resources likely means the country also will need to add energy storage. "Ensuring a

[...](#)

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