

## European Solar Energy Storage

# Southern europe energy storage



## Overview

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What is the European energy storage inventory?

In March 2025, the Commission launched the European Energy Storage Inventory, a real-time dashboard that displays energy storage levels across different European countries. It is the first European-level tool of its kind and offers energy storage data across a full range of technologies.

Why is energy storage important in the EU?

It can also facilitate the electrification of different economic sectors, notably buildings and transport. The main energy storage method in the EU is by far 'pumped hydro' storage, but battery storage projects are rising. A variety of new technologies to store energy are also rapidly developing and becoming increasingly market-competitive.

How many battery energy storage systems were installed in Europe in 2024?

21.9 GWh of battery energy storage systems (BESS) was installed in Europe in 2024, marking the eleventh consecutive year of record breaking-installations, and bringing Europe's total battery fleet to 61.1 GWh. However, the annual growth rate slowed down to 15% in 2024, after three consecutive years of doubling newly added capacity.

Why should EU countries consider the 'consumer-producer' role of energy storage?

It addresses the most important issues contributing to the broader deployment of energy storage. EU countries should consider the double 'consumer-producer' role of storage by applying the EU electricity regulatory framework and by removing barriers, including avoiding double taxation and facilitating smooth permitting procedures.

Is the battery storage age just beginning in Europe?

Walburga Hemetsberger, CEO of SolarPower Europe (she/her), said: "If Europe

has already entered the solar age, the battery storage age is just beginning. With solar energy mainstreaming across the continent, now is the time for European decisionmakers to put batteries at the centre of a flexible, electrified, energy system.

Why is battery storage so important in Europe?

The recent electricity outage in the Iberian Peninsula is a stark reminder of why this is important.” The BESS market in Europe is set to grow faster in the next years, although not at the levels required. In the most-likely scenario for 2025, 29.7 GWh of battery storage will be installed in Europe, representing a 36% annual growth.

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### **New report: European battery storage grows 15% in 2024, EU energy**

We urge the European Commission to double-down on their efforts here and come forward with an EU Energy Storage Action Plan as part of a broader Energy System Flexibility Package. The recent electricity outage in the Iberian Peninsula is a stark reminder of why this is important."

## Energy storage

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### **Smart Energy Storage Solutions That Power Europe's Solar Future**

European initiatives and technological innovations are driving the advancement of more sustainable and accessible storage solutions. The growing trend of hybrid systems, combining different storage technologies, demonstrates the industry's adaptability and commitment to meeting diverse energy needs.

## European Energy Storage Inventory , JRC SES

Explore the European Energy Storage Projects  
Dive into the map of Energy Storage Projects  
using interactive tools and filter options by  
status, technology, subtechnology, and more.



## How Energy Storage Can Solve Southern Europe's Grid

Energy storage is key to addressing southern Europe's grid flexibility challenges, exacerbated by reliance on natural gas amidst heightened energy security concerns and renewable energy goals.

## The role of energy storage towards net-zero emissions in the ...

This study investigates the role of different energy storage technologies in a European electricity sector that complies with the target of net-zero carbon emissions in 2050. We consider three energy storage technologies, namely ...



## Pricing pressures boost energy storage uptake in Southern Europe

Interest in co-locating solar PV with energy storage is increasing in Southern Europe, as grid curtailments and negative or near-zero prices for solar PV become more frequent in the region.



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## How Energy Storage Can Solve Southern Europe's Grid Flexibility

Energy storage provides an easily accessible solution to southern Europe's carbon-intensive flexibility problem and will help ease network costs and avoid exposure to fossil fuel price volatility.

## Power Outages in Southern Europe Highlight Urgent Need for ...

At TLS, we are helping customers across Europe prepare for an increasingly unpredictable energy landscape with intelligent, customizable storage systems designed for rapid deployment and harsh environments.



## **New EU Tool Tracks Real-Time Energy Storage Across Europe**

A new interactive platform--the European Energy Storage Inventory --has been launched to provide near real-time insights into energy storage deployment across the EU, marking a major step toward a smarter and more sustainable energy system.

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