



# Energy storage power stations under construction in Southern Europe





## Overview

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Discover the largest planned and under-construction battery energy storage projects in Europe as of mid-late 2025.

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The aim of the European Energy Storage Inventory is to record all European energy storage projects by status – in operation, planned and under construction –, by location and by technology. Most projects have been recorded in Germany so far. The dashboard can be filtered by country, project status.

There are 147 energy storage projects under construction in Europe, with a total capacity of 14 GW, according to the European Energy Storage Inventory, launched by the European Commission. The European Energy Storage Inventory comprises operational, under construction, permitted, and announced.

The European Energy Storage Inventory is the first of its kind at European level to show all forms of clean energy storage solutions. Unlike existing databases that focus on specific storage types, this platform surveys and maps a full range of technologies. It offers near real-time data on the.

Europe is racing to add very large grid batteries to balance rising wind and solar output. As of mid-late 2025, four utility-scale Battery Energy Storage System (BESS) projects stand out by size — each designed in the 0.5–2.8 GWh class and backed by reputable developers and public filings. Below I.

MUNICH, Germany (Wednesday 7th May 2025): New analysis reveals another year of record installations for European\* battery storage, despite slower year-on-year growth, according to the latest European Market Outlook for Battery Storage. 15% growth. Battery storage forecast. Drivers for battery.

A total of 11.9GW of energy storage across all scales and technologies was installed in Europe in 2024, bringing cumulative installations to 89GW. According to the ninth annual edition of the European Market Monitor on Energy Storage (EMMES) from trade association European Association for Storage. 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.

How many energy storage projects are there in Europe?

The goal is to list all planned and operational energy storage projects in Europe by location and technology. The dashboard can be filtered by country, project status and technology. It lists 32 countries and is led by Germany, with 472 projects. It is followed by the United Kingdom (455 projects), Spain (147 projects) and Italy (112 projects).

How many megawatts of energy storage were installed in Europe in 2024?

Historic and forecasted megawatt installs of energy storage across Europe. Image: EASE / LCP Delta. A total of 11.9GW of energy storage across all scales and technologies was installed in Europe in 2024, bringing cumulative installations to 89GW.

What is Europe's largest battery energy storage system?

While these projects boast massive planned capacities, the largest active BESS in Europe is now the first 400 MWh phase of ENGIE's 200 MW / 800 MWh system in Vilvoorde, Belgium, which has officially gone live. Sungrow and ENGIE bring Europe's largest battery energy storage system online in Belgium with the completion of its first 400 MWh phase.



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### [EU launches real-time dashboard for energy ...](#)

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### [New tool maps Europe's real-time sustainable ...](#)

It offers near real-time data on the deployment of storage facilities across Europe, including an interactive dashboard and map, and ...



### **MIT Climate and Energy Ventures class spins out entrepreneurs ...**

In MIT course 15.366 (Climate and Energy Ventures) student teams select a technology and determine the best path for its commercialization in the energy sector.



### [Europe's battery energy storage boom: Record growth and ...](#)

Germany, Italy, and the UK are leading deployments in this area, with multiple large-scale projects connected or under development. The commercial and industrial segment ...



### [Europe's giant batteries: the four biggest ...](#)

Discover the largest planned and under-construction battery energy storage projects in Europe as of mid-late 2025.

### [Study shows how households can cut energy costs](#)

Giving people better data about their energy use, plus some coaching, can help them substantially reduce their consumption and costs, according to a study by MIT ...



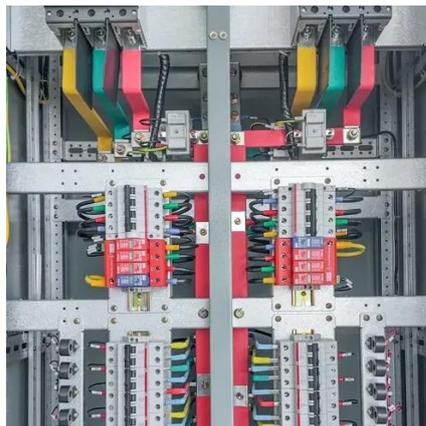
### **Europe's giant batteries: the four biggest planned/under-construction**

Discover the largest planned and under-construction battery energy storage projects in Europe as of mid-late 2025.

### **Unlocking the hidden power of boiling -- for energy, space, and ...**



Unlocking its secrets could thus enable advances in efficient energy production, electronics cooling, water desalination, medical diagnostics, and more. "Boiling is important for ...



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

In the most-likely scenario for 2025, 29.7 GWh of battery storage will be installed in Europe, representing a 36% annual growth. By 2029, the report anticipates a sixfold increase ...

### **A new approach could fractionate crude oil using much less energy**

MIT engineers developed a membrane that filters the components of crude oil by their molecular size, an advance that could dramatically reduce the amount of energy needed ...



### **Capture Energy expands into southern Europe anticipating an ...**

Once our operations in southern Europe are consolidated, we aim to move quickly into Latin America. We see substantial potential there as well. Looking towards 2026, what ...

[Using liquid air for grid-scale energy storage](#)



Liquid air energy storage could be the lowest-cost solution for ensuring a reliable power supply on a future grid dominated by carbon-free yet intermittent energy sources, ...



### [Who are the key players driving EU storage ...](#)

In November, Altea Green Power began construction of a 1GW battery energy storage system project in Italy, called ~Black Bess". ...

### **Who are the key players driving EU storage deployment in 2024?**

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### **14 GW of energy storage capacity under construction in Europe**

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### [Taking the "training wheels" off clean energy](#)



At the 2025 student-led MIT Energy Conference, energy leaders from around the world discussed how to make green technologies competitive with fossil fuels.

**5 Years  
warranty**



### Europe installed 12GW of energy storage in 2024

A total of 11.9GW of energy storage across all scales and technologies was installed in Europe in 2024, LCP Delta has said.

### Evelyn Wang: A new energy source at MIT

As MIT's first vice president for energy and climate, Evelyn Wang is working to broaden MIT's research portfolio, scale up existing innovations, seek new breakthroughs, and ...



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### **New facility to accelerate materials solutions for fusion energy**



The new Schmidt Laboratory for Materials in Nuclear Technologies (LMNT) at the MIT Plasma Science and Fusion Center accelerates fusion materials testing using cyclotron ...



### Confronting the AI/energy conundrum

The MIT Energy Initiative's annual research spring symposium explored artificial intelligence as both a problem and solution for the clean energy transition.

### Europe's battery energy storage boom: Record ...

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### Scotland to host 3 biggest battery energy storage systems in Europe



Scotland is to host the three largest battery energy storage systems in Europe after an infrastructure investment fund committed £800mn to build two new battery projects, with a ...

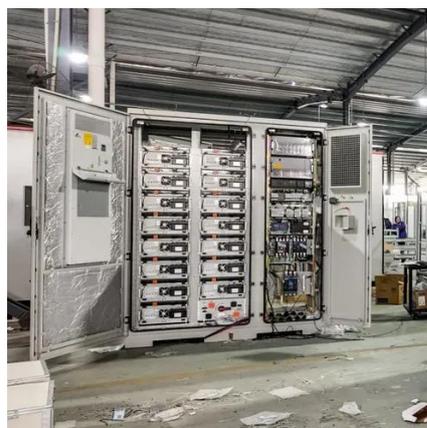


### [What's the best way to expand the US electricity grid?](#)

Growing energy demand means the U.S. will almost certainly have to expand its electricity grid in coming years. What's the best way to do this? A new study by MIT ...

### **New tool maps Europe's real-time sustainable energy storage data**

It offers near real-time data on the deployment of storage facilities across Europe, including an interactive dashboard and map, and identifies all the technologies, from battery ...



### **EU launches real-time dashboard for energy storage expansion**

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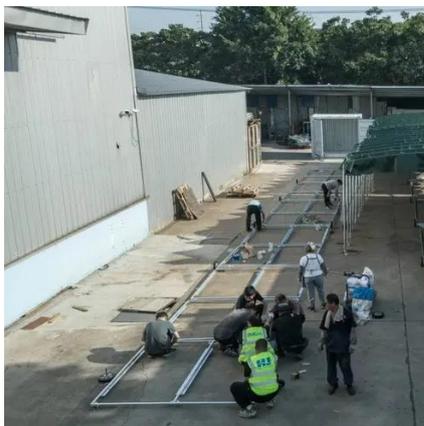


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