

## SolarInvert Energy Solutions

# Construction of large-scale energy storage projects in Italy



## Overview

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Between August 7 and 11, 2025, Italy's Ministry of Environment and Energy Security (MASE) gave the green light to six large-scale battery storage projects located in Lazio, Campania, Basilicata, and Puglia. What is the 2.3 GW battery storage project in Italy?

Also underpinning the 2.3 GW battery storage projects across Northern and Southern Italy is renewable energy security. The project, as put in official project partnership communication, will enable "it [Italy] meet its 2030 renewable energy targets, decarbonising the power system whilst ensuring security of supply".

Does Italy need 9gw/71gwh of energy storage?

Italy's TSO Terna says it needs 9GW/71GWh of energy storage by integrate its renewables pipeline. Image: Terna. The European Union (EU) Commission has approved a state aid scheme aiming to fund the rollout of over 9GW/71GWh of energy storage in Italy.

Will Italy get a state aid scheme for energy storage?

The European Union Commission has approved a state aid scheme aiming to fund the rollout of over 9GW/71GWh of energy storage in Italy.

How long will a pumped hydro energy storage project last?

That duration will be split between battery energy storage system (BESS) and select pumped hydro energy storage (PHES) projects, though even on the BESS side developers have been touting portfolios with durations up to 8 hours.

What technologies can be used for energy storage?

Eligible technologies Terna has outlined are primarily lithium-ion, PHES, compressed air energy storage (CAES), non-lithium electrochemical storage (other types of batteries etc), power-to-gas-to power storage (green hydrogen

etc), electrostatic or magnetic storage and electromechanical flywheel storage.

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### **Zelestra and BKW sign innovative long-term tolling agreement ...**

2 days ago· Zelestra, a global, multi-technology, customer-focused renewable energy company, has signed a long-term tolling agreement with BKW, a leading energy and infrastructure ...

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### **EU approves Italy's 177 billion euro energy storage plan to ...**

In August 2024, the European Commission approved a EUR8 billion Italian national plan to support the construction and operation of centralized power storage systems, in accordance with EU ...



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### **Zelestra and BKW Ink Italy's Landmark 2 GWh Tolling Deal**

1 day ago· Zelestra, a global, multi-technology, customer-focused renewable energy company, has signed a long-term tolling agreement with BKW, a leading energy and infrastructure ...

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### **Italy 'is route into BESS for capital**

## that is excluded ...

Terna estimates Italy will need 71GWh of new grid-scale energy storage by 2030. While the opportunities there mean a lot of interest and ...

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### Home Energy Storage (Stackble system)



## EU approves Italy's EUR17.7 billion state aid for large-scale energy

The scheme totalling EUR17.7 billion (US\$19.5 billion) will provide annual payments covering investment and operating costs for those developing, building and operating large ...

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## What Tesla New Grid-Scale Battery Means for Energy Utilities ...

2 days ago· Tesla's new Megablock (announced alongside the Megapack 3) is a prefabricated, medium-voltage, utility-scale energy-storage assembly designed to speed deployment and ...

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## First of its kind: Long-Term Tolling Agreement Unlocks Large ...

2 days ago· Zelestra and BKW have signed an innovative long-term tolling agreement that enables the delivery of one of Europe's largest battery energy



storage systems (BESS), of up ...

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## Utility-scale leads as Italy adds 4.4 GWh of energy ...

Italy's Anie said the boost for small-scale energy storage systems provided by the country's renovation "superbonus" is over. The tax credit, ...

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## United States: Eolus sells a 100 MW/400 MWh energy storage project ...

An expanding sector in the United States Since 2015, Eolus has been investing in renewable energy and storage projects across the U.S. The Pome project represents its fourth ...

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## EU approves Italy EUR17.7 billion state aid for energy storage rollout

The scheme totalling EUR17.7 billion (US\$19.5 billion) will provide annual payments covering investment and

operating costs for those developing,  
building and operating large ...

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### **Biggest projects in the energy storage industry in 2024**

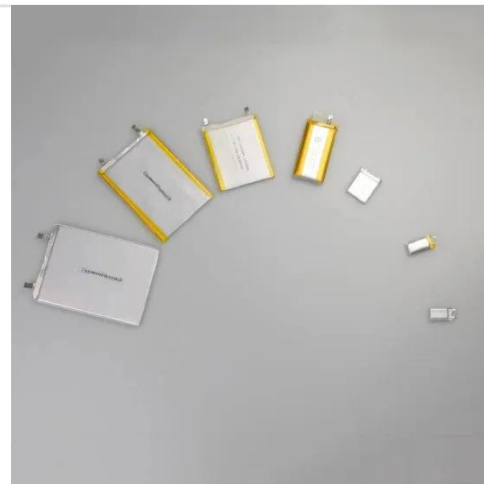
Following similar pieces in 2022/23, we look at the biggest energy storage projects, lithium and non-lithium, that we've reported on in 2024.

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### **Italy Approves 361 MW of Battery Energy Storage Systems to ...**

Italy has taken a major step forward in its energy transition efforts, giving the green light to 361 MW of new battery energy storage systems (BESS) spread across three ...

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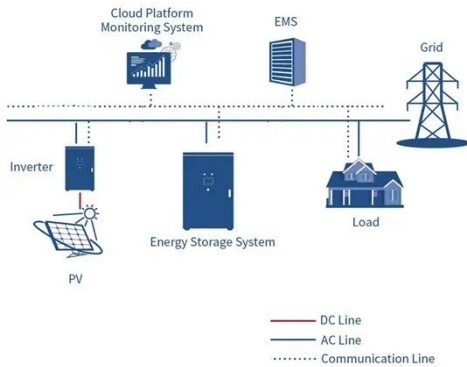
### **CIP and GCSS to oversee 2.3 GW battery storage (BESS) ...**

Danish-based renewable energy investor, Copenhagen Infrastructure Partners (CIP), shakes hands over a 2.3 GW pipeline of battery storage (BESS)



projects across ...

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## Italy permits more than 1 GW of large-scale batteries in August

The largest, 120 MW project will be built in the municipality of Ceprano. In August, more than 1 GW of battery energy storage systems (BESS) were approved.

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## CIP and GC Storage Services to Develop 2.3GW BESS Pipeline ...

Copenhagen Infrastructure Partners (CIP) has partnered with GC Storage Services (GCSS) via its Flagship Fund CI V to develop a 2.3GW pipeline of large-scale battery ...

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## EU approves Italy EUR17.7 billion state aid for energy ...

The scheme totalling EUR17.7 billion (US\$19.5 billion) will provide annual payments covering investment and operating costs for those ...



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### **First of its kind: Long-Term Tolling Agreement Unlocks Large-Scale**

2 days ago · Zelestra and BKW have signed an innovative long-term tolling agreement that enables the delivery of one of Europe's largest battery energy storage systems (BESS), of up ...

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### **Italy approves 648 MW of new battery projects in Central and ...**

Between August 7 and 11, 2025, Italy's Ministry of Environment and Energy Security (MASE) gave the green light to six large-scale battery storage projects located in Lazio, Campania, ...

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### **Engie signs offtake contract for long-duration CO2 ...**

Engie has signed 'energy storage as a service' contract with Energy Dome for a long-duration energy storage project in Sardinia, Italy.

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## CIP and GC Storage Services to Develop 2.3GW BESS Pipeline in Italy

Copenhagen Infrastructure Partners (CIP) has partnered with GC Storage Services (GCSS) via its Flagship Fund CI V to develop a 2.3GW pipeline of large-scale battery ...

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## FLEXIBLE SETTING OF MULTIPLE WORKING MODES



## EU Approves EUR17.7 Billion for Italy's Renewable ...

By implementing large-scale electricity storage facilities, the Italian scheme aspires to reduce energy reliance on fossil fuels and foster a resilient ...

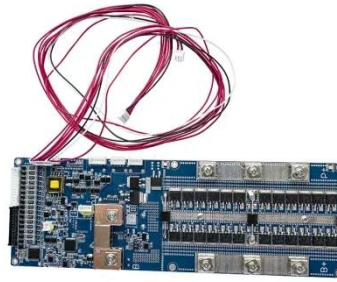
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## The major Battery Storage projects from around the ...

We provide a detailed report on all the major Battery Storage construction projects around the world with key focus

on the largest projects in ...

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### **Altea selling 2GW of BESS projects in Italy with Q2 ...**

The sales will be facilitated by LevelTen Energy, an international renewable energy asset M& A platform. Image: LevelTen Energy. Developer ...

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### **Stora Italy's grid-scale energy storage market: a sleeping drag**

Italy's grid-scale energy storage market: a sleeping dragon Grid-scale battery storage , Cameron Murray writes about the nascent market for large-scale battery storage in Italy, which could ...

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### **EU Approves EUR17.7 Billion for Italy's Renewable Energy Storage**

By implementing large-scale electricity storage facilities, the Italian scheme aspires to reduce energy reliance on fossil fuels and foster a resilient grid,

prepared to handle ...

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## Top 10 Energy Storage Investors in Italy , PF Nexus

Energy storage technologies are being prioritised in order to improve system resilience and facilitate Italy's energy transition objectives, ranging from lithium-ion batteries to ...

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## Energy Dome successfully launches first CO2 Battery ...

With the launch of their commercial demonstration facility in Sardinia, Italy, Energy Dome's energy storage technology is ready for market ...

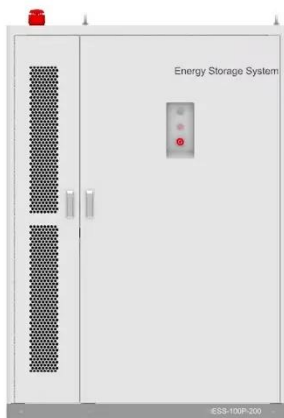
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