

# **Italian coal-to-electricity energy storage device**





## Overview

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Why should we invest in Italy's digitised energy infrastructures?

The company's commitment translates into both proprietary solutions and adaptation - already today - to the most stringent EU requirements for digitised energy infrastructures. The Italian storage market also represents a key test bed for large-scale integration of renewables and smart grid management.

Who owns the 100MW energy storage system in Sardinia?

The 100MW energy storage system will be owned and operated by Energy Vault, and is key to increasing the local use of renewable energy in Sardinia while accelerating the formation of the Renewable Energy Technology Hub.

How will a hybrid energy storage system help Sardinia?

In addition, the Hybrid Energy Storage System will help to stabilize the island's power grid, with plans to dispatch renewable energy to help meet the high demand during peak load hours while encouraging further local use of renewable generation in Sardinia.

What is Energy Vault's new energy storage system?

The proposed system combines long-established pumped hydro energy storage technology with Energy Vault's innovative gravity energy storage technology, allowing the partners to repurpose the unique underground features of the site as a retired coal mine.



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### [Energy Vault to Develop 100 MW Hybrid Gravity Energy Storage ...](#)

Energy Vault Holdings, a developer of sustainable grid-scale energy storage solutions, and Carbosulcis, a coal mining company owned by the Autonomous Region of Sardinia, Italy, plan ...

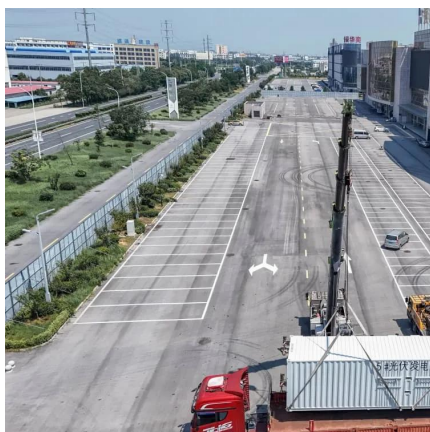
### [TURNING COAL PLANTS INTO STORAGE ASSETS](#)

The report follows the International Energy Agency's (IEA) conclusion in its World Energy Outlook 2020 that solar power is now the cheapest electricity in history. The technology is cheaper ...



### **Energy Vault**

5 days ago · Energy Vault's hybrid energy storage system leverages existing infrastructure, advance modular gravity storage, and lithium-ion batteries to support the development of a ...



### [Innovative Energy Storage Solutions for Coal-to-Electricity ...](#)

Italy's energy sector is undergoing a transformation, and coal-to-electricity conversion projects require advanced storage solutions. This article explores how modern energy storage ...



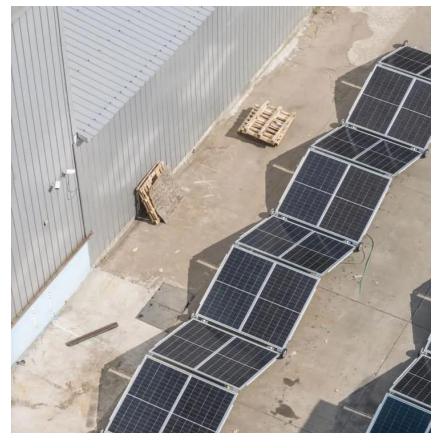
### [Italy: Energy Vault and Carbosulcis Announce 100MW Hybrid...](#)

Aug 16, 2024 · The hybrid energy storage system utilizes Energy Vault's new EV0(TM) modular pumped hydro gravity storage technology plus lithium-ion batteries, and powered by ...



### [100 MW hybrid ESS set for Sardinia](#)

Aug 6, 2024 · A 100 MW hybrid gravity and battery ESS will use the mine shafts of large underground coal mine on the Italian island of Sardinia to offer a novel energy storage ...



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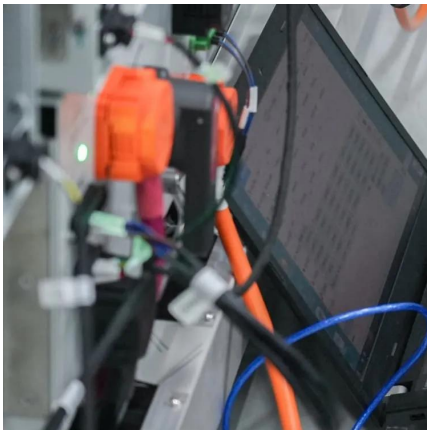






### [Energy Vault & Carbosulcis to develop 100MW Italian](#)

August 6, 2024 Energy Vault and Carbosulcis, a coal mining company owned by the Autonomous Region of Sardinia, have announced plans to develop a 100MW project in Sardinia, Italy that ...

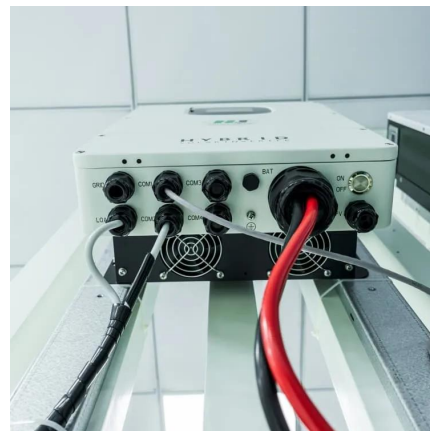


### [Italy, strategic hub for energy storage: investment boom](#)

Aug 21, 2025 · The Italian storage market also represents a key test bed for large-scale integration of renewables and smart grid management. " Italy has all the credentials to become ...

### [Energy Vault eyes gravity tech plus BESS at coal mine in Italy](#)

Aug 6, 2024 · Energy Vault and a state-owned coal mining company in Sardinia, Italy, are developing a gravity energy storage plus BESS project.



### [Energy Vault eyes gravity tech plus BESS at ...](#)

Aug 6, 2024 · Energy Vault and a state-owned coal mining company in Sardinia, Italy, are developing a gravity energy storage plus BESS project.



### [Exide Technologies energizes Italian industry with new energy storage](#)

Aug 26, 2025 · Exide Technologies' Italian operations, located in the province of Bergamo, are specialized in energy storage systems, and excel in integrating these solutions with the energy ...



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