

# Japanese power plant energy storage project



## Overview

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Japanese financial services group Orix is set to build one of the country's largest power storage facilities, partnering with Tesla Inc. for the supply of industrial-scale batteries. In Hiroshima, Sumitomo Heavy Industries, Ltd. The system turns air and recycled industrial cold into clean electricity - showcasing a scalable, zero-emissions alternative to fossil-based backup power and supporting Japan's . The large-scale energy storage facility "EV Battery Station Chitose" in Hokkaido, began operations in 2023. Today we . According to Storage Discover, on February 4, 2025, Nikkei News and several other media outlets reported that Tesla (TSLA. O) has entered into a partnership with Japanese financial services group ORIX to provide a Megapack energy storage system with a total capacity of 548 megawatt-hours (MWh) for . Strategic acquisition establishes an immediate, localized footprint in Japan, advancing Energy Vault's global own & operate strategy in a high-growth, underpenetrated market Transaction includes onboarding of a proven local Japanese development team and 350 MW of advanced-stage projects targeted to . Global energy storage capacity was estimated to have reached 36,735MW by the end of 2022 and is forecasted to grow to 353,880MW by 2030. Japan had 1,671MW of capacity in 2022 and this is expected to rise to 10,074MW by 2030.

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### [Transforming Energy Storage Into Core Infrastructure: New Storage](#)

The large-scale energy storage facility "EV Battery Station Chitose" in Hokkaido, began operations in 2023. This facility aims to stabilize the electric grid in Hokkaido and is significant in

### [Energy Vault Enters Japanese Market with Acquisition of 850 MW Energy](#)

The portfolio also includes 500 MW of early-stage BESS projects, providing a robust, multi-year growth pipeline that positions Energy Vault for long-term leadership in the Japanese energy



### [Tesla Wins An Order for Japan's Largest Energy Storage Project](#)

The project, which is expected to be operational by 2027, will be one of the largest energy storage facilities in Japan, helping the country address the challenge of renewable energy volatility

### [Orix Plans Japan's Largest Power Storage Plant Using Tesla Batteries](#)

Japanese financial services group Orix is set to build one of the country's largest power storage facilities, partnering with Tesla Inc. for the supply of industrial-scale batteries.



## Japan Energy Storage Policies and Market Overview



### [Energy Vault Enters Japanese Market with Acquisition of 850 MW Energy](#)

Energy Vault Holdings, Inc, a global player in sustainable, grid-scale energy storage and AI compute infrastructure solutions, has announced its formal entry into the Japanese market



### **Top five energy storage projects in Japan**

Listed below are the five largest energy storage projects by capacity in Japan, according to GlobalData's power database. GlobalData uses proprietary data and analytics to provide a

### **Energy Vault enters Japan with 850MW BESS portfolio**

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### [Sumitomo Electric Successfully Completes its First Vanadium Redox](#)

Our RF battery (installed capacity of 1,125 kWh: 250 kW x 4.5 hours) will serve as the energy storage system at this power plant, storing excess power during the day and releasing it at

## **MEMBER CASE STUDY**

In Hiroshima, Sumitomo Heavy Industries, Ltd. (SHI) has built the world's first commercial LAES plant connected to a liquefied natural gas (LNG) terminal. By reusing the terminal's excess cold, the



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