

# Japan's energy storage power station goes into operation



## Overview

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TOKYO, Japan – November 29, 2024 – ORIX Corporation (“ORIX”) announced today that it will begin commercial operation of the Kinokawa Energy Storage Plant in Kinokawa, Wakayama that was jointly constructed with Kansai Electric Power Co., Inc. (“KEPCO”) on December 1, 2024 \*1.

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Tokyo, August 6, 2025 – Hitachi, Ltd. (TSE:6501, "Hitachi") has recently delivered a set of grid energy storage system \*1 to Matsuyama Mikan Energy LLC (Matsuyama Mikan Energy) \*2 for its newly constructed Matsuyama Battery Energy Storage System (Matsuyama BESS) in Matsuyama City, Ehime Prefecture.

Japan Petroleum Exploration Co., Ltd. (JAPEX) announces that it has started construction of its first grid-scale battery (\*1) facility (hereinafter the "Battery Energy Storage System") on the unused land of its Research Center in Chiba City, Chiba Prefecture, and entries into the Grid-scale battery.

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 marking the creation of a new business model for energy storage pioneered by Sumitomo Corporation. Today we.

Japan Petroleum Exploration Co., Ltd. (JAPEX) has installed its first grid-scale battery (\*1) facility, "JAPEX Mihamra Battery Energy Storage System" (hereafter the "Battery Energy Storage System") in its Research Center in

Chiba City, Chiba Prefecture, and began commercial operation on August 1.

Nippon Chikudenchi commissioned its first grid-scale battery storage facility on May 7, 2025, the company announced on the same day. According to the statement, Sun Village handled the project's engineering, procurement, and construction (EPC). The 2MW/8MWh Kasugai Nishio Power Storage Station in. What is Japan's first energy storage project?

In 2015, we started Japan's first demonstration project covering energy storage connected to the power grid in the Koshikishima, Satsumasendai City, Kagoshima. This project is still operating in a stable manner today. One feature of our grid energy storage system is that it utilizes reused batteries from EVs.

How is Japan's energy storage landscape changing?

Japan's energy storage landscape is shifting, pushed by household demand, corporate ESG mandates, and domestic battery manufacturing. The residential lithium-ion market, projected to grow at a CAGR of 33.9% through 2030, remains one of the fastest-expanding segments.

What is Japan's energy storage policy?

As policy, technology, and decarbonization goals converge, Japan is positioning energy storage as a critical link between its climate targets and energy reliability. Japan's energy storage policy is anchored by the Ministry of Economy, Trade and Industry (METI), which outlined its ambitions in the 6th Strategic Energy Plan, adopted in 2021.

What is Kinokawa energy storage plant?

Kinokawa Energy Storage Plant has 64 lithium-ion storage battery containers installed within its premises. With a rated output of 48MW and a rated capacity of 113MWh <sup>\*2</sup>, it has the largest scale <sup>\*3</sup> out of all energy storage plants currently operating within Japan and is the first to begin operation in ORIX's energy storage plant business.

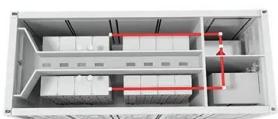
Why is Tokyo launching a virtual power plant?

The push is reinforced by Tokyo's 2025 regulation requiring solar panels on new homes, and the launch of virtual power plant (VPP) programs—slated to begin in fiscal 2026—that will let households sell surplus energy to the grid.

## How big is Japan's battery storage market?

In the commercial space, Japan's battery storage market was valued at USD 593.2 million in 2023 and is projected to reach USD 4.15 billion by 2030. While commercial installations currently dominate revenues, industrial adoption is expected to scale faster. Utility-scale storage is also gaining ground.

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### Large-scale energy storage business

In 2024, we plan to invest our accumulated know-how into the operation of the first large-scale energy storage plant in Japan, to be located in Chitose, ...

## Idemitsu Kosan-led group starts up 15-MW energy storage plant ...

3 ???- Japanese petroleum company Idemitsu Kosan Co Ltd (TYO:5019), alongside certain project partners, has launched the operation of a majority-owned energy storage facility with a ...



### World's largest pumped storage hydropower plant in full operation ...

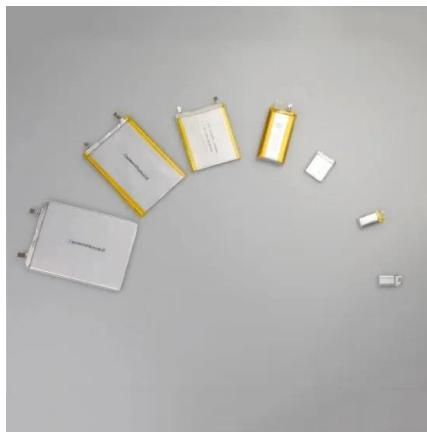
A drone photo taken on Dec. 31, 2024 shows the underground workshop of Fengning pumped-storage power station in Fengning Manchu Autonomous County, north China's Hebei Province. ...

## Transforming Energy Storage Into Core Infrastructure: ...

The large-scale energy storage facility "EV Battery Station Chitose" in Hokkaido, began

operations in 2023. This facility aims to stabilize

...



## Prospect of new pumped-storage power station

Taking the new pumped-storage power station as an example, the advantages of multi-energy cooperation and joint operation are analyzed. It can be predicted that the ...

## The first batch of units of the world's highest pumped storage power

Xinhua News Agency, Nanjing, March 10 (Reporter Chen Shengwei) The world's highest pumped storage power station - State Grid Xinyuan Jiangsu Jurong Pumped Storage ...



## Newly built Matsuyama Battery Energy Storage System begins

...

3 ???· The utilization of energy storage stations is attracting attention as one solution to this. Battery energy storage stations enable the utilization of renewable energy and adjustment of ...

## THE RENEWABLE ENERGY TRANSITION AND SOLVING ...

THE RENEWABLE ENERGY TRANSITION AND SOLVING THE STORAGE PROBLEM: A LOOK AT JAPAN The rapid growth of renewable energy in Japan raises new challenges regarding ...



## Present status of pumped hydro storage operations to mitigate ...

This paper focuses on pumped hydro energy storage (PHES) plants' current operations after electricity system reforms and variable renewable energy (VRE) installations in ...

## Nippon Chikudenchi commissions 2MW/8MWh ...

4 ??? Nippon Chikudenchi commissioned its first grid-scale battery storage facility on May 7, 2025, the company announced on the same day. According ...



## World's First Immersion Cooling Battery Energy Storage Power Plant

The Meizhou Baohu energy storage power plant in Meizhou, South China's Guangdong Province, was put into operation on March 6. It is the world's first immersed liquid ...

## Japan Energy Storage Policies and Market Overview

Despite strong policy signals, Japan's energy storage rollout faces deep structural headwinds. The nation's split-grid architecture--50 Hz in the east and 60 Hz in the ...



## Kansai EPCO launches turnkey storage development ...

4 ???· Kansai Electric Power launched a one-stop battery storage solution and will form a BESS operation and maintenance-focused (O& M) joint venture ...



## Construction of JAPEX's first power storage facility and entry into ...

Japan Petroleum Exploration Co., Ltd. (JAPEX) announces that it has started construction of its first grid-scale battery (\*1) facility (hereinafter the "Battery Energy Storage ...

## Japan's Pumped Storage Power Station Projects: Powering the

...

Japan's Top Projects: Where Engineering Meets Ambition Japan's mountainous terrain makes it a pumped storage powerhouse. Take the Okutataragi Power Station in Hyogo ...



## Tesla wins first Megapack battery storage order in Japan

Tesla will deliver a battery energy storage system (BESS) to a 'Battery Power Park' project in Japan which will participate in various electricity ...



## Largest New-Type Energy Storage Power Station in GBA Put into Operation

It is estimated that the station can export 1.2 million kilowatt-hours of green power per day. An energy storage station plays a key role in building new-type power systems ...



## World's First Non-Supplementary Fired Compressed ...

The national pilot demonstration project for storage of compressed air energy at Jintan salt cavern was officially put into commercial ...

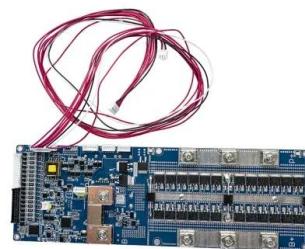
## Microsoft Word

They have contributed to stable operation of a huge power network in Kanto distinct including Tokyo metropolitan area, functioning as peak load power sources, storage of electric power, ...



## **Huaneng 100MW decentralized control energy storage power station ...**

According to China Huaneng news agency on December 29, in the early morning of the 29th, with the strong support of Huaneng Shandong Branch, the 100 megawatt / ...



## List of energy storage power plants

This is a list of energy storage power plants worldwide, other than pumped hydro storage. Many individual energy storage plants augment electrical grids by ...



## **Kansai EPCO, Kinden, Japan Extensive Infrastructure plan**

...

As Japan transitions away from fossil fuels and decommissions old thermal assets, more such conversions are likely to follow. Separately from Kansai EPCO, Chugoku ...

Eneos Renewable Energy will add energy storage to an existing solar PV power plant in southern Japan, after successfully applying for subsidies to support the project's cost. output of ...

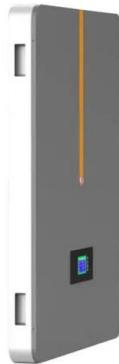


### **Matsuyama Battery Energy Storage System, utilizing Hitachi's ...**

At this plant, we will store and supply electricity in line with power supply and demand, provide balancing power, and maximize the use of renewable energy to contribute to ...

### **Shenzhen Pumped Storage Power Station Goes into Operation**

The last generator unit of the Shenzhen pumped storage power station went on-line on Sept 25, 2018, marking that the first large-scale pumped storage power station in an ...



### **JAPEX Mihamra Battery Energy Storage System ...**

Through this operation, JAPEX will contribute to the effective use and further expansion of renewable energy, the stable supply of electricity ...

## Battery storage power station - a comprehensive guide

This article provides a comprehensive guide on battery storage power station (also known as energy storage power stations). These facilities play a crucial ...



## ORIX Begins Operation of Kinokawa Energy Storage ...

TOKYO, Japan - November 29, 2024 - ORIX Corporation ("ORIX") announced today that it will begin commercial operation of the Kinokawa Energy Storage ...

## Pumped storage power stations in China: The past, the present, ...

The pumped storage power station (PSPS) is a special power source that has flexible operation modes and multiple functions. With the rapid economic development in ...



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