

# **Japan s installed battery energy storage capacity**





## Overview

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The Renova-Himeji Battery Energy Storage System is a 15,000kW lithium-ion battery energy storage project located in Himeji, Hyogo, Japan. The rated storage capacity of the project is 48,000kWh. The electro-chemical battery storage project uses lithium-ion battery storage technology. The project will be commissioned.

The GS Yuasa-Kita Toyotomi Substation – Battery Energy Storage System is a 240,000kW lithium-ion battery energy storage project located in Toyotomi-cho.

The Minami-Soma Substation – BESS is a 40,000kW lithium-ion battery energy storage project located in Minamisoma, Fukushima, Japan. The rated storage.

The Nishi-Sendai Substation – BESS is a 40,000kW lithium-ion battery energy storage project located in Sendai, Miyagi, Japan. The rated storage capacity of.

The Aquila Capital Tomakomai Solar PV Park – Battery Energy Storage System is a 19,800kW lithium-ion battery energy storage project located in.

But here's the kicker: This island nation is quietly revolutionizing high-capacity energy storage like a ninja perfecting stealth technology. With 6.4 GWh of installed battery storage capacity as of 2024 (up 300% since 2020) [3], Japan's storage sector is growing faster than a Tokyo skyscraper. How big is Japan's battery storage capacity?

Rystad forecasts Japan's battery storage capacity could reach about 4 GW based on projects under construction, planned and awarded, which would require \$6 billion in investment.

How big is Japan's energy storage capacity?

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. Listed below are the five largest energy storage projects by capacity in Japan, according to GlobalData's power database.



How much battery power does Japan have?

As of March, Japan had 0.23 GW of grid-connected BESS, according to METI. By comparison, China has 75 GW and the U.S. has installed nearly 26 GW of battery storage capacity, according to the Energy Institute.

How many battery storage projects will Stonepeak and CHC develop in Japan?

Stonepeak and CHC's energy storage platform will develop five new battery storage projects in Japan. These projects have a combined capacity of 348 megawatts (MW). The deals were finalized under Japan's Long-term Decarbonization Auction. These projects were selected as part of Japan's latest long-term auction focused on low-carbon energy.

Why are battery storage projects growing in Japan?

The ramp up of battery storage projects in Japan continues apace, aided by growing subsidy avenues and rising volumes on various electricity markets, from spot to balancing to capacity.

How much do Japanese companies spend on battery storage projects?

Since December 2023, companies have announced investments of at least \$2.6 billion in Japanese battery storage projects, according to calculations by Reuters. That includes \$677 million in spending by Japanese real estate firm Hulic (3003.T) announced in January and \$1.3 billion by trading house Sumitomo (8053.T) last year.



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### Global energy storage

Global pumped storage capacity 2024, by leading country Energy Battery storage cumulative capacity in Europe 2022-2030 Batteries Lithium-ion battery price worldwide 2013 ...

### Developer commissions first BESS in Japan to trade ...

Milestone reached in utility-scale battery storage market development in Japan, with Pacifico Energy trading energy from two new ...



### [Guide to Japanese train tickets and rail passes](#)

Guide to Japanese Train Tickets Below is a list of the various railway tickets available in Japan: Regular tickets Regular tickets simply get you from A to B. Our page about regular train tickets ...

### Japan Event Calendar: October 2025

Japan Event Calendar for October 2025: national holidays, events, festivals.





## Japan Incentivizes Battery Storage Projects Amid ...

As of May 2023, about 1.1 GW of supply has been contracted for grid-scale storage batteries nationwide, with contracts for an additional 12 GW ...



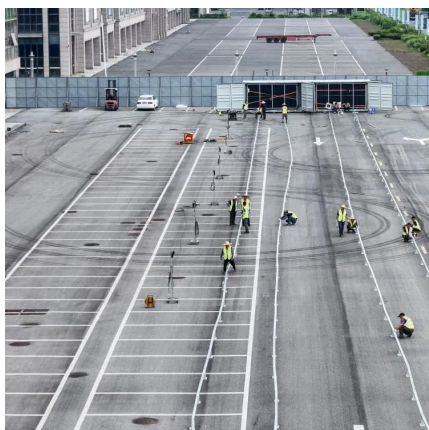
## World's energy storage capacity forecast to exceed a ...

In BloombergNEF's 2H 2023 Energy Storage Market Outlook report, the firm forecasts that global cumulative capacity will reach 1,877GWh ...



## Tohoku Travel Guide

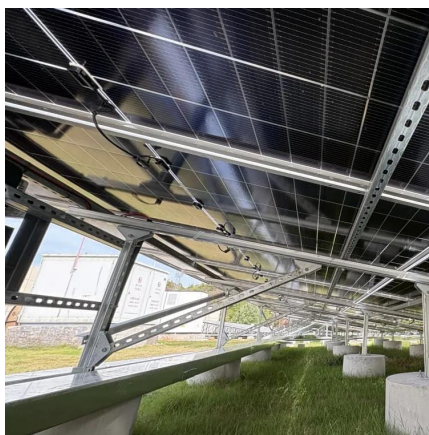
Travel guide for Japan's Tohoku Region. Expansive landscapes, rustic hot springs, epic festivals and rich traditions





## Top 12 countries leading the charge in battery energy ...

Japan's BESS market is gradually expanding, with installed capacity increasing from 1.0 GWh in 2024 to 5.0 GWh by 2027. The country is ...



## Japan Event Calendar: March 2026

Japan Event Calendar for March 2026: national holidays, events, festivals.

## Japan on cusp of energy storage boom

The Powerwall home battery, for example, stores 13.5 kilowatt-hours of electricity, which is nearly equivalent to the daily power consumption ...



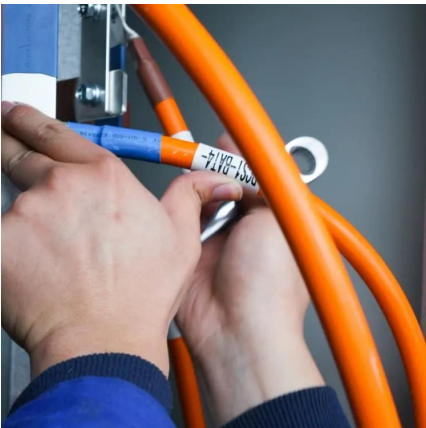
## Is Japan's grid-scale storage market getting a move on?

Japan's planned grid-scale battery storage system (BESS) will also need multiple revenue streams to remain viable, however, and a series of ...



## Japanese gov't selects aggregators for JPY9 billion BESS scheme

The Japanese government has published the list of battery aggregators that successfully applied to a scheme to promote energy storage systems. The scheme aims to ...



## 12 grid-scale BESS projects totaling 180MW/595MWh secure 13B ...

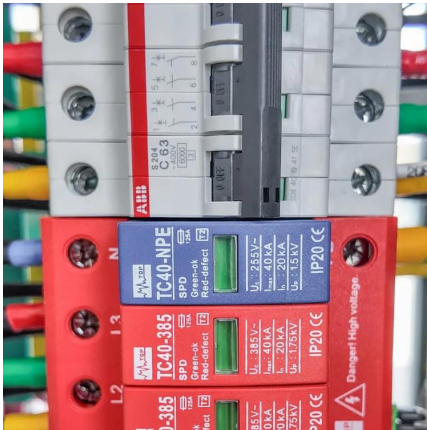
4 days ago· A total of 12 projects totaling 180MW/595.3MWh was awarded 13 billion yen through Tokyo's FY2024 subsidy for promoting grid-scale battery storage, the metropolitan ...

## [Japan on cusp of energy storage boom](#)

The Powerwall home battery, for example, stores 13.5 kilowatt-hours of electricity, which is nearly equivalent to the daily power consumption of an average household.





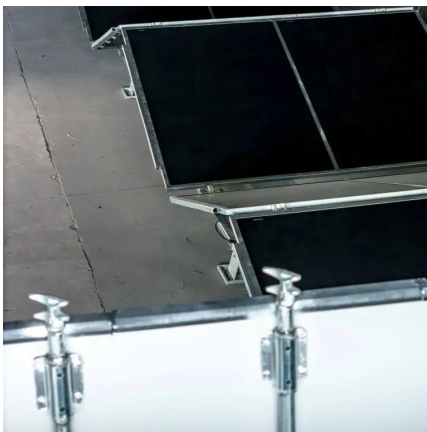


## 12 grid-scale BESS projects totaling 180MW/595MWh ...

4 days ago · A total of 12 projects totaling 180MW/595.3MWh was awarded 13 billion yen through Tokyo's FY2024 subsidy for promoting grid-scale battery ...

## Saitama Travel Guide

Saitama (????) is a major city within half an hour by train north of Tokyo. The city was newly formed in 2001 with the merger of Urawa, Omiya and other municipalities. Saitama is primarily ...



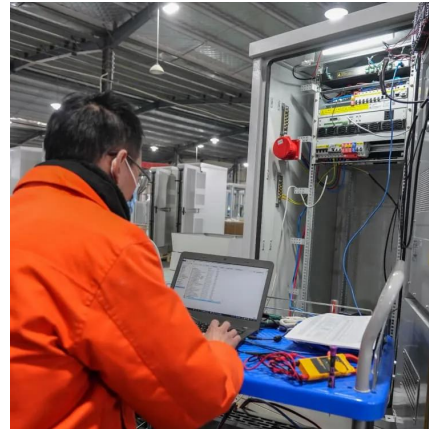
## [HD Renewable Energy Secures 300MW BESS in ...](#)

HD Renewable Energy, a global smart energy leader based in Taiwan, has further expanded its footprint in Japan's battery energy storage ...

## [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 ...





## Cumulative installed storage capacity, 2017-2023 - Charts - Data

Cumulative installed storage capacity, 2017-2023 - Chart and data by the International Energy Agency.



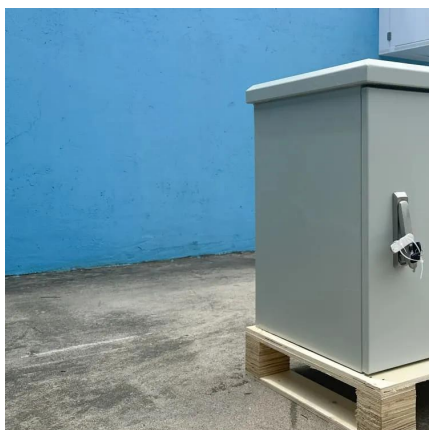
## [HD Renewable Energy Expanded its Footprint in ...](#)

HD Renewable Energy, a global smart energy leader based in Taiwan, has further expanded its footprint in Japan's battery energy storage ...



## Analysis on Recent Installed Capacity of Major ...

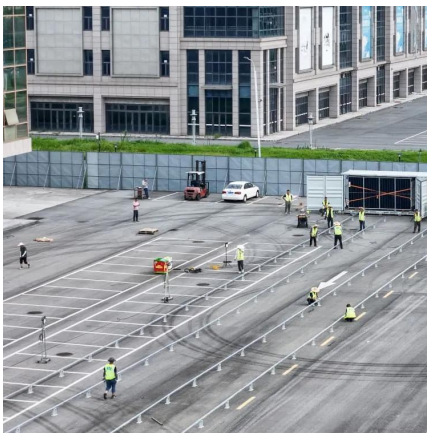
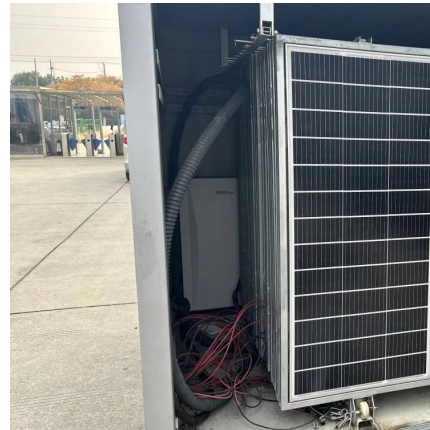
This benefit is facilitated by the decreasing costs of energy storage systems, primarily those utilizing lithium batteries, in tandem with subsidies ...





## Powering Up Japan: NTT's Big Bet on Battery Storage Sparks a ...

Japan installed about 190 MW of new energy storage capacity in 2022, doubling its 2021 total of 92 MW. Projections indicate that Japan's cumulative storage capacity could ...



## Japan Rail Pass Calculator

A simple calculator to compare regular JR fares with the cost of the Japan Rail Pass.

## [Japan Energy Storage Policies and Market Overview](#)

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 ...



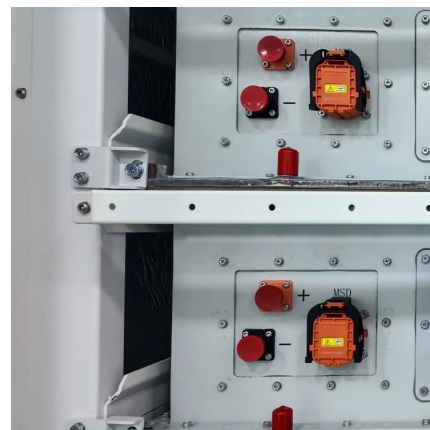
## Japan Incentivizes Battery Storage Projects Amid Growing Demand

As of May 2023, about 1.1 GW of supply has been contracted for grid-scale storage batteries nationwide, with contracts for an additional 12 GW under consideration, ...



## Japan: 1.67GW of energy storage wins in capacity auction

Over a gigawatt of bids from battery storage project developers have been successful in the first-ever competitive auctions for low-carbon energy capacity held in Japan.



## Rail Passes in Japan

Besides the well known Japan Rail Pass, there exists a large variety of regional rail passes that provide unlimited travel in a certain area of the country. The interactive map below indicates ...

## [Global energy storage market: review and outlook](#)

The global energy storage market added 175.4 GWh of installed capacity in 2024, with the three major regional markets--China, the Americas, and Europe--continuing to ...





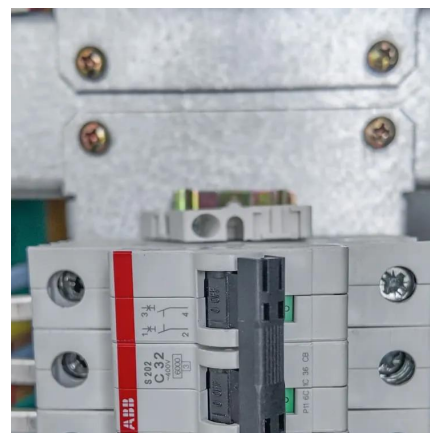


## Japan scales up batteries but companies worry rule changes may ...

2 days ago· Investors commit at least \$2.6 billion to Japan's battery storage projects Proposed changes to capacity auctions may reduce battery storage attractiveness Analysts worry ...

## Japan's High-Capacity Energy Storage: Powering a Sustainable ...

But here's the kicker: This island nation is quietly revolutionizing high-capacity energy storage like a ninja perfecting stealth technology. With 6.4 GWh of installed battery ...



## [Top 20 Countries by Battery Storage Capacity](#)

Visualizing the Top 20 Countries by Battery Storage Capacity Over the past three years, the Battery Energy Storage System (BESS) market ...

## Powering Up Japan: NTT's Big Bet on Battery Storage ...

Japan installed about 190 MW of new energy storage capacity in 2022, doubling its 2021 total of 92 MW. Projections indicate that Japan's ...





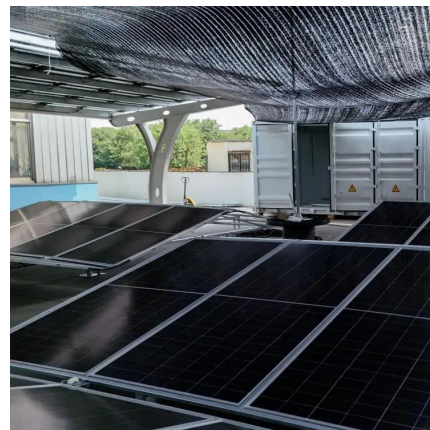
## Kansai Travel Guide

The Kinki Region (????, Kinki Chih?), also commonly known as Kansai (??, literally "west of the border"), encompasses the Osaka Plain and consists of seven prefectures. It used to be ...



## [Japan Confirms Five New Battery Storage Projects](#)

Stonepeak and CHC's energy storage platform will develop five new battery storage projects in Japan. These projects have a combined capacity of 348 megawatts (MW).



## [Public Holidays and Annual Events in Japan](#)

The following are Japanese national holidays and some of the most important other annual nationwide events. In addition, there are countless local annual festivals. Shops, restaurants ...



## Battery Energy Storage Systems Report

This information was prepared as an account of work sponsored by an agency of the U.S. Government. Neither the U.S. Government nor any agency thereof, nor any of their ...



## Tokyo City Guide

Tokyo (??, T?ky?) is Japan's capital and the world's most populous metropolis. It is also one of Japan's 47 prefectures, consisting of 23 central city wards and multiple cities, towns and ...

## Japan: 1.67GW of energy storage wins in capacity ...

Over a gigawatt of bids from battery storage project developers have been successful in the first-ever competitive auctions for low-carbon ...



## U.S. battery storage capacity expected to nearly double in 2024

U.S. battery storage capacity has been growing since 2021 and could increase by 89% by the end of 2024 if developers bring all of the energy storage systems they have ...



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