

## European Solar Energy Storage

# Japanese office building energy storage project



## Overview

---

That's Japan in a nutshell, and energy storage has become its not-so-secret weapon to balance renewable energy adoption with grid stability. The government's GX (Green Transformation) policy is driving this revolution, targeting 36-38% renewable energy by 2030 – and guess what makes this possible?

.

That's Japan in a nutshell, and energy storage has become its not-so-secret weapon to balance renewable energy adoption with grid stability. The government's GX (Green Transformation) policy is driving this revolution, targeting 36-38% renewable energy by 2030 – and guess what makes this possible?

.

Let's face it – Japan's energy landscape is undergoing a seismic shift. With giants like Sumitomo Corporation pouring ¥200 billion into battery storage facilities [1] [4] [10] and Tesla deploying its Megapack systems in Shiga Prefecture [6] [7], commercial buildings are now front-row spectators in.

“Japan is targeting a 46% reduction in greenhouse gas emissions by 2030, with a goal of 40-50% power supply from renewable energy by 2040, roughly doubling the 22.9% share in the 2023 fiscal year, and achieving net zero emissions by 2050,” says Andrew Kelley, APAC VP for digital and commercial.

Japan's energy storage sector is expanding, though growth remains uneven across segments. The overall market is expected to grow 11% annually, from USD 793.8 million in 2024 to USD 2.5 billion by 2035. Residential adoption is moving faster. Home lithium-ion battery systems generated USD 278.5.

The subsidy covers up to 2 billion yen per project. 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 government's document released in February 2025 shows. The subsidy covers

up to two.

ours (GWh) of electricity, or enough electricity to charge 50,000 electric vehicles. The BESS will more than double Japan's utility-scale lithium-ion battery capacity, and increase national energy storage capacity in megawatt hours by 220%. To be developed at a cost of 91 billion yen (USD 600 million).

Japan's energy storage market is experiencing a wave of significant growth, as ESN Premium hears from Eku Energy and BloombergNEF. In the past few months, Energy-Storage.news has reported on energy storage project development, new business divisions and strategic partnerships in Japan. These have. 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.

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.

Does Japan's energy storage rollout face structural headwinds?

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 west—limits electricity transfer and complicates nationwide deployment.

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.

Does Japan have a battery subsidy program?

As Japan works to expand battery storage amid growing solar and wind

capacity, METI also runs a similar subsidy scheme at the national level. In FY2024, it awarded 34.6 billion yen to 27 projects. Both programs are expected to continue in FY2025.

## Japanese office building energy storage project

---



### Japan: Large-scale battery storage opportunities in an evolving ...

Japan's energy storage market is experiencing a wave of significant growth, as ESN Premium hears from Eku Energy and BloombergNEF. In the past few months, Energy ...

### Japan Energy Storage Policies and Market Overview

Japan's energy storage policies, market statistics, and trends--from METI's strategic plans and subsidy programs to deployment challenges.



### Japan: Eku begins first BESS project, Gore Street raises funding

Eku Energy begins first battery project in Japan, Gore Street has raised funding for the country's first energy storage-dedicated fund.

### How Japan is Driving BESS Investment

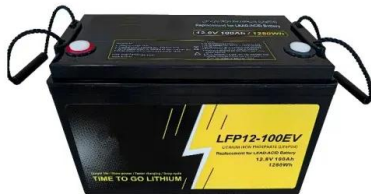
A Growing Need for Energy Storage The

increasing generation of renewables on the Japanese grid has led to various support policies and CAPEX subsidy schemes to support the deployment of grid ...



## Gur?n Energy enters Japanese market to develop 2GWh ...

TOKYO, Friday, 15 December 2023 - Pan-Asian renewable energy developer Gur?n Energy today announced plans to enter the Japanese market to develop, build and operate Japan's largest ...



## Japan: Large-scale battery storage opportunities in an evolving ...

In the past few months, Energy-Storage.news has reported on energy storage project development, new business divisions and strategic partnerships in Japan. These have ...



## Japan's First 100% Self-Sufficient Office Building in ...

This is the first attempt in Japan to operate an office building off-grid that supplies 100% of building energy usage on its own. The Office in the Forest is a midsize office that consists of six 2-floor buildings ...



## Energy Storage Research , NREL

NREL's multidisciplinary research, development, demonstration, and deployment drives technological innovation and commercialization of integrated energy ...



## **Ekus Energy breaks ground on 120 MWh battery storage project in Japan**

With curtailment rates of 30% and higher for renewable project owners and dire congestion issues in the northern and southernmost regions of Hokkaido and Kyushu, the ...

## Large-scale energy storage business

What& How Building a large storage battery system with reused batteries Beginning more than a decade ago, Sumitomo Corporation was among the first to work on social implementation of ...



## **Japanese Commercial Building Energy Storage: Trends, ...**

Why Japan's Commercial Buildings Are Betting Big on Energy Storage Let's face it - Japan's energy landscape is undergoing a seismic shift.



## Thermal Energy Storage , Buildings , NREL

An inter-office energy storage project in collaboration with the Department of Energy's Vehicle Technologies Office, Building Technologies Office, and Solar Energy Technologies Office to provide ...



## Energy Storage Research , NREL

NREL's multidisciplinary research, development, demonstration, and deployment drives technological innovation and commercialization of integrated energy conversion and storage solutions. ...

## 27 grid-scale BESS projects secure 34.6B yen ...

2 ???· A total of 27 projects was awarded 34.6 billion yen in subsidies through METI's FY2024 program for supporting the expansion of renewable energy through introduction of energy storage, Sustainable Open ...



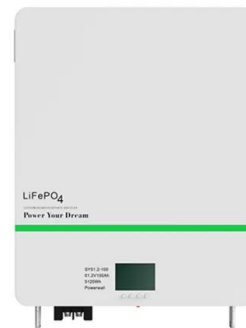


## 12 grid-scale BESS projects totaling ...

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 government's document released ...

## Japan: CATL JV orders Hitachi Energy BESS for grid-scale project

Construction is set to begin on a battery storage project in Japan through a joint venture (JV) involving CATL with utility Shikoku Electric Power. China-headquartered CATL - ...



## Japan: Strong fundamentals for energy storage drive expectations

Rendering of Eku Energy's 150MW/600MWh Eshi BESS project, awarded a 20-year LTDA capacity contract. Image: Eku Energy ESN Premium's deep dive into Japan ...

## Japan Energy Storage Projects: Powering a Sustainable Future ...

...

This 30MW/120MWH system in Miyazaki Prefecture (fun fact: home to Japan's best mangoes!) is like the Swiss Army knife of energy storage. Partnering with Tokyo Gas, it's ...



- LIQUID/AIR COOLING
- ON GRID/HYBRID
- PROTECTION IP54/IP55
- BATTERY /6000 CYCLES

## Ekus Energy Commits to Japan's Long-Term Energy Transition

...

Ekus Energy, a specialized provider of energy storage projects, is committed to advancing clean energy solutions in Japan and around the world. As global demand for energy ...

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

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



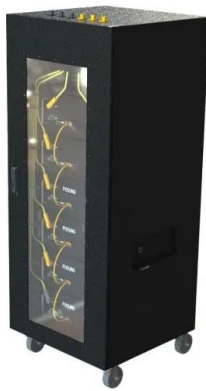
## Japan's 'increasing need, coupled with policy ...

The company is headquartered in New York and recently made its first investment in a 111MW/290MWh battery energy storage system (BESS) project in Australia, which is being developed by developer ZEN ...



## Japan: Eku begins first BESS project, Gore Street ...

Eku Energy begins first battery project in Japan, Gore Street has raised funding for the country's first energy storage-dedicated fund.



## Stonepeak and CHC Form Japanese Battery Energy Storage ...

About CHC CHC is a battery energy storage system ("BESS") project development and electricity data management company. With its dynamic team and the depth ...

## Initial Acquisition for Japan's First Energy Storage Fund

The approval of this project under the Tokyo Energy Storage Investment Limited Partnership marks an important step in supporting Japan's 2050 net zero commitment.



## Japan's Leading BESS Projects , Akaysha ...

Explore Akaysha Energy's large-scale Battery Energy Storage Systems (BESS) in Japan, enhancing grid stability and supporting renewable energy integration.



## PowerX and Hexa Energy Service Sign a ...

TOKYO, JAPAN - PowerX, Inc. (Head Office: Minato City, Tokyo, Japan; Director, President & CEO: Masahiro Ito) has signed a partnership agreement with Hexa Energy Service G.K. (Head Office: ...

HEAT DISSIPATION

Cold aisle containment, making optimal refrigeration effect:



## The Energy Storage Landscape in Japan

In Japan, one of the world's primary energy - and renewable energy- markets, as well as the current world leader in smart-grid and energy storage technology, the specific idiosyncratic ...



## Booming Battery Storage Pipeline Gives New ...

For many renewables developers and major power users, integrating Battery Energy Storage Systems (BESS) into the grid is becoming essential to accelerate clean energy projects and make them viable. ...





## Top five energy storage projects in Japan

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 ...

### Japan Battery Energy Storage System

Gur?n Energy is developing a pipeline of utility-scale battery energy storage system (BESS) projects to enable greater flexibility of the grid and support the increased use of renewable energy in Japan.



## Contact Us

---

For catalog requests, pricing, or partnerships, please visit:  
<https://bialydom.kolobrzeg.pl>