

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.

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.

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.

What is the future of energy storage?

Local companies Toshiba, Itochu and Hitachi are among those betting on energy storage systems for growth. There is much potential in this relatively overlooked sector: the global battery energy storage market will reach as much as \$150bn by 2030, estimates McKinsey. Falling prices of battery cells should help wider adoption of home batteries.

Can Eku Energy commercialise large-scale batteries in Japan?

For Eku Energy, the LTDA is important to the business model of its Japanese projects but the developer, perhaps best known for projects in the UK and Australia, sees three pathways to commercialisation for large-scale batteries in Japan. The company secured a 20-year tolling agreement for its first Japan project, the 30MW/120MWh Hirohara BESS.

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 ...

The energy storage systems market in Japan is experiencing robust growth, driven by various compelling



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factors. Notably, the increasing need for ESS to address peak ...

The results of the first round convinced METI to double the capacity allocated for battery storage. As Japan takes a leading role in Asia's grid-scale energy storage market, it's ...

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

Japan energy storage systems market size reached 15.1 GW in 2024. Looking forward, IMARC Group expects the market to reach 29.4 GW by 2033, exhibiting a growth rate ...

Japan's expanding data center industry and the growth of digital infrastructure are driving up energy demand, spurring the adoption of ...

6 · Gurin Energy is developing a pipeline of utility-scale battery energy storage system (BESS) projects to enable greater flexibility of the grid and ...

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 ...

By 2025, Japan's energy storage scale is projected to skyrocket, driven by renewable energy adoption and post-Fukushima reforms. Let's unpack how this tech-savvy ...

HiTHIUM Energy Storage Japan, established on Sep 12, 2025, registered in Japan with company number 9010003045553. If you would like to know more information about HiTHIUM ...

Japan's energy storage market needs restructuring to balance the books. So, can new ancillary and capacity services bridge the feasibility ...

Home battery storage aggregation projects have launched with participation of Tokyo Electric Power Co, and Tokyo Gas, two major utility ...

ABSTRACT Japan faces a significant energy security risk as it imports nearly all of the fuel used in its power sector, with clean electricity accounting for only 24% of the total. This study shows ...

Why is Japan Interested in Battery Storage Now? We've discussed how battery storage is gaining attention for its role in stabilizing the power from Japan's widespread solar ...

Stonepeak and CHC launch platform for energy storage projects in Japan The platform secured a 20-year fixed revenue capacity market ...



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As Japan seeks to diversify its energy portfolio and enhance resilience against potential natural disasters, energy storage solutions have become crucial in ...

A render of the BESS project. Image: ORIX Corporation / PR Times. Tesla and Sumitomo Electric have both been selected to supply energy storage projects in Japan. Tesla ...

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 ...

Stonepeak and CHC launch platform for energy storage projects in Japan The platform secured a 20-year fixed revenue capacity market contract for four battery energy ...

The targeted increase in renewable generation is paired with broad encouragement of battery storage. According to Japan's 6th Strategic Energy Plan, battery ...

That's Japan in 2025 - a real-life "Godzilla of grid innovation" quietly rewriting the rules of sustainable power [3]. With its updated energy storage policy, Japan aims to ...

With strong ambitions towards the energy transition and a liberalised power market structure, Japan is one of the most promising markets ...

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 ...

Japan's energy storage market needs restructuring to balance the books. So, can new ancillary and capacity services bridge the feasibility gap? As part of its efforts to ...

London-headquartered Eku Energy has initiated the construction of the Hirohara Battery Energy Storage System (BESS) in Oh-Aza Hirohara, Miyazaki City, Miyazaki ...

The targeted increase in renewable generation is paired with broad encouragement of battery storage. According to Japan's 6th Strategic ...

Pacifico Energy's Shiroishi Energy Storage Plant in Hokkaido, Japan, one of the two projects recently brought online by the developer. ...

Japan is targeting for 36% to 38% of its electricity to come from renewable sources by 2030, up from about 20% today. Image: Andy Colthorpe ...

APAC& MEA??Levi Liu?? ...



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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).

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

The energy storage market is experiencing a wave of significant growth in Japan, as ESN Premium hears from Eku Energy and BloombergNEF.

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