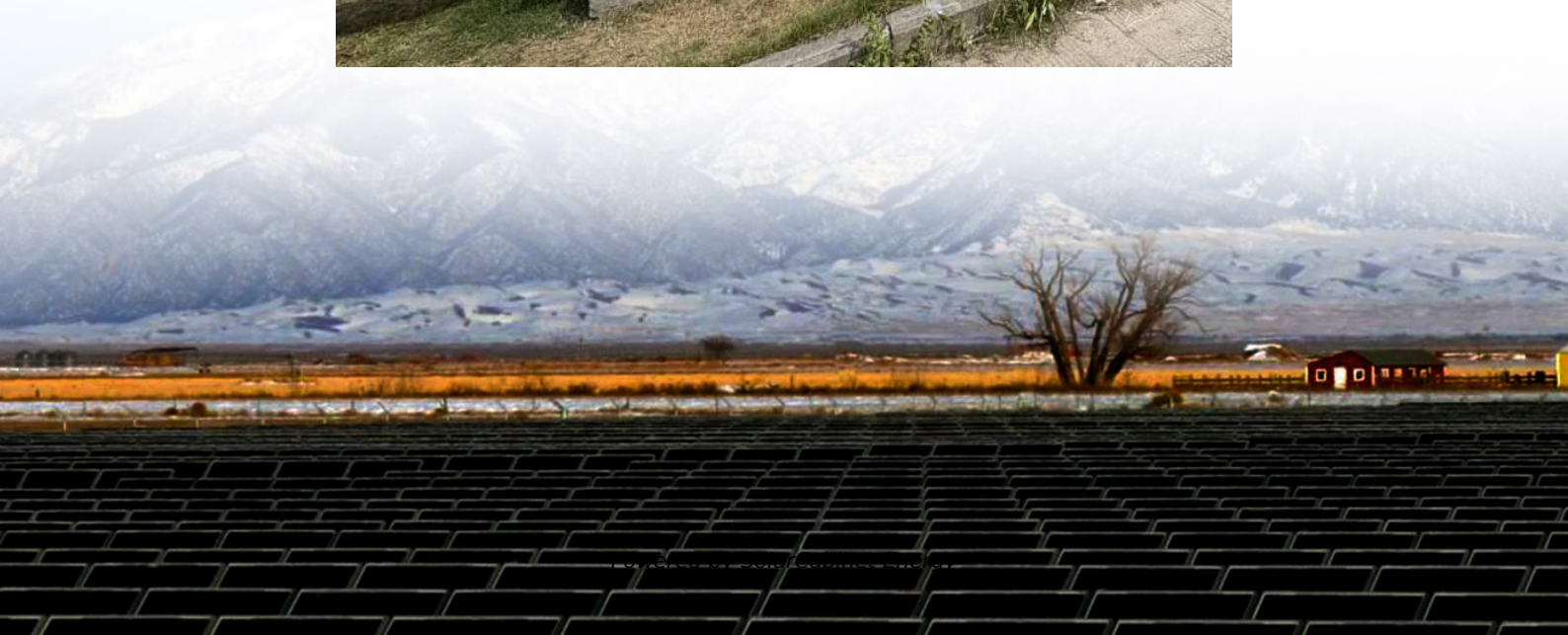


Japan s energy storage installed capacity prices





Overview

The research firm found the system costs excluding taxes to have increased 26.5% from 49,000 yen/kWh in FY2022 to 62,000 yen/kWh in FY2023. The majority of the increase was driven by the increase in the cost of the batteries themselves. 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.

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 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.

Is Japan a good market for grid-scale storage?

With strong ambitions towards the energy transition and a liberalised power market structure, Japan is one of the most promising markets for grid-scale storage in Asia Pacific. The country's electricity consumption per capita is twice the Asia Pacific average, and there is a race to keep up.

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 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.



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