

Why is Sumitomo launching a battery storage initiative?

As resource-poor Japan expands renewable energy to meet decarbonization goals and enhance energy security, battery usage is expected to rise to smooth out the intermittent supply of solar and wind energy. Sumitomo's battery storage initiative is part of the Japanese trading house's broader efforts to bolster its energy transformation business.

Does Sumitomo have an energy storage center business?

When completed, the energy storage center business can spread on a full scale across mainland Japan as well. Additionally, Sumitomo Corporation started demonstration projects for batteries for "virtual power plant" (VPP) technologies in locations such as Isahaya, Nagasaki from the end of 2017.

What is a Sumitomo Electric battery?

The battery offered by Sumitomo Electric features long lifetime, unlimited cycle life, easy operation, and low maintenance. It is a safe and flexible energy storage solution that can be used for grid support, renewable integration, wholesale electricity market participation, and microgrids.

When did Sumitomo start using lithium-ion batteries?

The major turning point for the raw materials business came around 2008. Predicting that EVs and hybrid cars would replace traditional gasoline engine vehicles, Sumitomo Corporation started to explore possibilities for new businesses using lithium-ion batteries.

Can lithium-ion batteries be used for energy storage?

One such potential use is energy storage. For energy storage business using lithium-ion batteries, there are two main possibilities. One is the smoothing of renewable energy generation. One of the disadvantages of solar and wind power generation is the output instability caused by weather effects.

Sumitomo Corporation's goal is to build a reliable energy storage business model in anticipation of the coming new age in electricity. Sumitomo Corporation does not only own and manage solar, wind, and biomass power plants within the group, it is also involved in electricity retailing through Summit Energy Corporation, mobility services to ...

This has led some flow battery companies like Austria's CellCube and others to focus on the commercial and industrial (C&I) and microgrid segment of the energy storage market, at least for the time being. ...

Energy-Storage.news reported on the project back in 2017, which sought to show how the technology can reliably help the grid integrate renewables and improve flexibility, and the research has shown high long-term operating rates and capacity retention rates.. The ex-post evaluation by external experts was concluded in December 2022 with a results ...

Sodium-ion batteries are set to disrupt the LDES market within the next few years, according to new research - exclusively seen by Power Technology's sister publication Energy Monitor - by GetFocus, an AI-based analysis platform that predicts technological breakthroughs based on global patent data. Sodium-ion batteries are not only improving at a ...

Sumitomo Electric Industries, Ltd. has launched an energy management solution that enables multiple uses for grid storage batteries using SEMSA(TM)* technology. Amid an increasing number of projects being planned ...

The project has been commissioned in line with a schedule announced by the company in July 2020, as reported by Energy-Storage.news at the time. It will directly contribute to decarbonisation and increased renewable energy penetration on Hokkaido. Due to large areas of suitable land, Hokkaido has become a hotspot for clean energy but has struggled to ...

SFW is committed to developing energy practices that support decarbonisation and regularly undertakes scientific studies to quantify the potential impact of its technologies on various energy systems. Our latest ...

Energy generation knowledge is advancing every day, with new decarbonization pathways opening up for the industry. Wind and solar capacity is growing, with new energy-storage capabilities making these renewables increasingly viable. ...

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New power and energy services businesses such as the large-scale energy storage business and green power platform business; Environmental value creation businesses such as forestry, as well as methanation*1, CCS*2, carbon credit and other businesses related to carbon dioxide (CO2) capture, storage and utilization.

Idemitsu Kosan, Japan's biggest petroleum producer, has launched an energy storage business and announced its first lithium battery project. ... (JV) Himeji Energy Storage Facility together with SMFL Mirau Partners, a subsidiary of Sumitomo Mitsui Finance and Leasing Corp, chemicals trading firm NAGASE and renewable energy developer RENOVA ...

Long-term vision "Sumitomo Electric Group 2030 VISION"; Mid-term Management Plan 2025; Corporate Governance; Get in Touch. Exhibitions; ... Environment & Energy. Info - communications. Automotive. Electronics. Industrial Materials. Company. Company Top. Company Profile; At a Glance; History; Corporate Philosophy;

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Guam sumitomo energy storage

its first lithium battery project. ... (JV) Himeji Energy Storage Facility together with SMFL Mirau ...

There are two such energy storage systems on Guam and they have been operating since March. A 24 megawatt system is located at the Hagåtña Substation. It will primarily be used to alleviate ...

Idemitsu, an energy company best known in the oil and gas sector, will market and deploy the batteries, while Sumitomo Electric, a diversified company which has been one of the world's predominant vanadium flow battery makers to date, will make them with Veeco, the Queensland company's managing director Tom Northcott said.

Sumitomo SHI FW (SFW) and Siemens Energy have signed a Memorandum of Understanding (MoU) to collaborate on the development of Liquid Air Energy Storage (LAES) solutions for the global market. SFW and ...

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