

Japanese all-vanadium battery energy storage company





Overview

Does Sumitomo have a solar energy storage system?

Sumitomo Electric Industries, Ltd. is pleased to announce that its vanadium redox flow battery (hereinafter "RF battery*1"), together with its energy management system sEMSA™,*2 has been adopted as the energy storage system for the "Kurokiyama Solar Power Plant," which was developed by Minamikyushu City, Kagoshima Prefecture.

Does Sumitomo Electric have a vanadium redox flow battery?

Sumitomo Electric has been proceeding with a vanadium redox flow battery (VRFB) pilot project in coordination with San Diego Gas & Electric, stemming from a partnership between Japan's New Energy and Industrial Technology Development Organization (NEDO) and the California Governor's Office of Business and Economic Development (GO-Biz).

Which redox flow battery is subsidized by Japan's government?

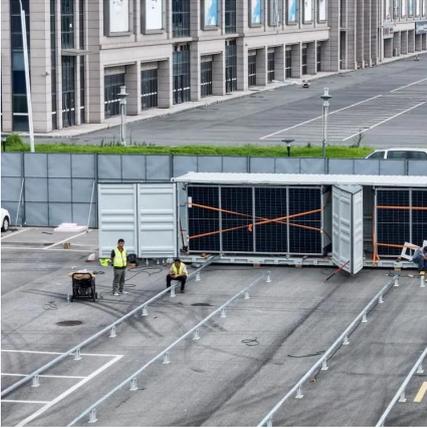
Japan's Sumitomo Electric is building the first redox flow battery to be approved for government subsidy in the country. The 2 MW/8 MWh facility, which is under construction on the island of Kyushu, will be subsidized under Japan's FY2024 Renewable Energy Expansion and Grid-Scale Energy Storage System Support Program.

Where is Sumitomo Electric launching a long-duration energy storage project?

In December, the company announced the start of commercial operations at a 1MW long-duration energy storage (LDES) project in Niigata prefecture, further north of the coast of the Sea of Japan. At the time of the announcement, Sumitomo Electric said it had reached a total installed capacity of 50MW/176MWh of VRFBs across Japan.



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Sumitomo Electric Successfully Completes its First Vanadium ...

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Sumitomo Electric deploys first vanadium flow battery for a ...

Image: Sumitomo Electric Sumitomo Electric has inaugurated a vanadium redox flow battery (VRFB) system at a community solar microgrid in southern Japan. A ceremony ...

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Shanghai Electric Energy Storage Technology signed a 2MW/8MWh vanadium

This project will be the first grid-connected energy storage project of Shanghai Electric Energy Storage in the Japanese market. It is also the first MW-level vanadium flow ...

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[Sumitomo Electric launches vanadium redox flow battery ...](#)

Japanese manufacturer Sumitomo Electric has released a new vanadium redox flow battery (VRFB) suitable for a variety of long-duration configurations. Unveiled at Energy ...



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The 8-hour duration (8MWh) flow battery purchased by municipal electric power company KASHIWAZAKI IR Energy has been deployed in Niigata's Kashiwazaki City, a historically significant hub for ...

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The Global All-Vanadium Redox Flow Batteries Market was valued at USD 168.60 million in 2023 and is projected to reach USD 276.09 million by 2030, growing at a Compound ...

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Vanadium Redox Flow Battery (VRFB) VRFB is a rechargeable battery that is charged and discharged by means of the oxidation-reduction reaction of vanadium ions. Sumitomo Electric ...

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Sumitomo Electric Completes its First Vanadium Redox Flow Battery in Japan

Sumitomo Electric Industries, Ltd., has announced that its vanadium redox flow battery, together with its energy management system SEMSA, has been adopted as the ...

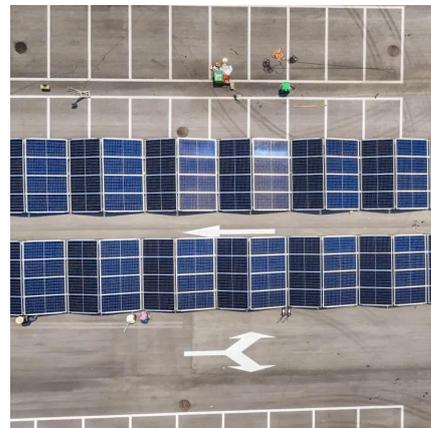
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[Japan's first subsidized flow battery under construction](#)

The site will be the Nagasu Energy Storage Facility, in the Tamana district of Kumamoto prefecture. Sumitomo's website indicates the company has more than 30 years' ...

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Image: Sumitomo Electric Sumitomo Electric has inaugurated a vanadium redox flow battery (VRFB) system at a community solar microgrid in southern Japan. A ceremony was held last month (22 April) to ...

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