



# Japanese all-vanadium battery energy storage company





## Overview

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With over 30 years of development history and more than 180 MWh of energy storage systems deployed/contracted, Sumitomo Electric brings reliable energy storage solutions to customers around the world.

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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.

Sumitomo Electric has operated a 2 MW/8 MWh pilot vanadium flow battery in San Diego since December 2018 and is constructing a similarly sized facility on the island of Kyushu. Japan's Sumitomo Electric is building the first redox flow battery to be approved for government subsidy in the country.

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 celebrate completion of the energy storage system at Kurokiyama Solar Power Plant in Minamikyushu City, Kagoshima prefecture.

Sumitomo Electric Industries, Ltd., has announced that its vanadium redox flow battery, together with its energy management system SEMSA, has been adopted as the energy storage system for the "Kurokiyama Solar Power Plant," which was developed by Minamikyushu City, Kagoshima Prefecture. A.

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 Annual Growth Rate (CAGR) of 7.3% during the forecast period (2023-2030). This growth is driven by accelerating renewable energy.

Sumitomo Electric's new system comes in three versions, providing up to 10 hours of storage. It achieves improvements in output and energy density, through component enhancements, thereby reducing cost and physical footprint. From ESS



News Japanese manufacturer Sumitomo Electric has released a new.



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### [Sumitomo Electric Launches Japan's First Vanadium Flow ...](#)

Sumitomo Electric has launched its first vanadium redox flow battery (VRFB) system at a community solar microgrid in southern Japan. A ceremony took place on April 22 to ...

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### [Sumitomo Electric Completes its First Vanadium ...](#)

Sumitomo Electric Industries, Ltd., has announced that its vanadium redox flow battery, together with its energy management ...

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

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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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## Sumitomo Electric Successfully Completes its First Vanadium ...

In selecting the energy storage system, our RF battery was selected due to its long lifespan and its low risks of both degradation from long-term operation and fire due to ...

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## Top 10 Companies in the All-Vanadium Redox Flow Batteries ...

In this analysis, we profile the Top 10 Companies in the All-Vanadium Redox Flow Batteries Industry --technology innovators and project developers who are commercializing ...

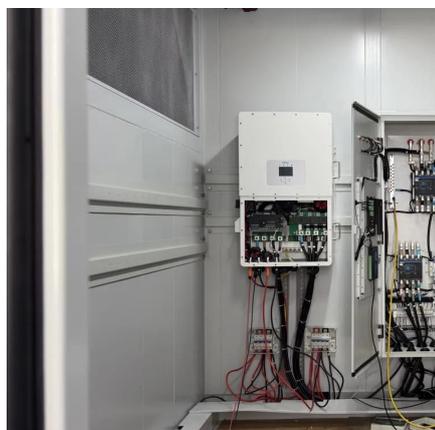
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## Sumitomo Electric launches vanadium redox flow battery with 30 ...

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Sumitomo Electric Industries has installed a vanadium redox flow battery at Osaka Metropolitan University as part of a trial to optimize ...

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## **Sumitomo Electric Launches Japan's First Vanadium Flow Battery ...**

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### [Top 10 Companies in the All-Vanadium Redox ...](#)

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## **Sumitomo Electric supplies flow**



## battery for AI-led smart energy ...

Sumitomo Electric Industries has installed a vanadium redox flow battery at Osaka Metropolitan University as part of a trial to optimize solar use and energy storage with AI. The ...

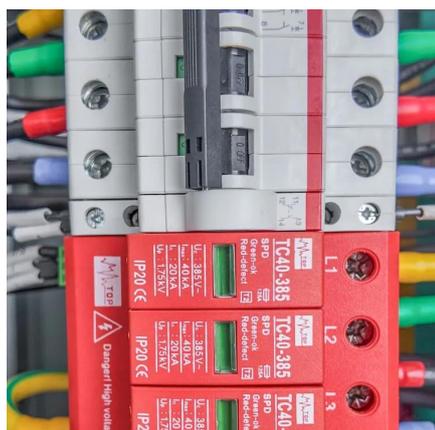
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## [Sumitomo Electric launches vanadium redox flow ...](#)

Sumitomo Electric's new system comes in three versions, providing up to 10 hours of storage. It achieves improvements in output ...

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## LE System Expands Global Footprint with Large-Scale Export of ...

In a major step towards strengthening the global energy storage market, Japan's leading vanadium flow battery electrolyte manufacturer, LE System, has embarked on a large ...

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## [Sumitomo Electric deploys first vanadium flow ...](#)

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## ICS Website



The battery offered by Sumitomo Electric features long lifetime, unlimited cycle life, easy operation, and low maintenance. It is ...

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

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### Sumitomo Electric Successfully Completes its First ...

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### ICS Website

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 ...

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### LE System Expands Global Footprint



## with Large-Scale Export of Vanadium

In a major step towards strengthening the global energy storage market, Japan's leading vanadium flow battery electrolyte manufacturer, LE System, has embarked on a large ...

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For catalog requests, pricing, or partnerships, please visit:

<https://www.energyinnovationday.pl>

Phone: +48 22 335 1273

Email: [info@energyinnovationday.pl](mailto:info@energyinnovationday.pl)

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