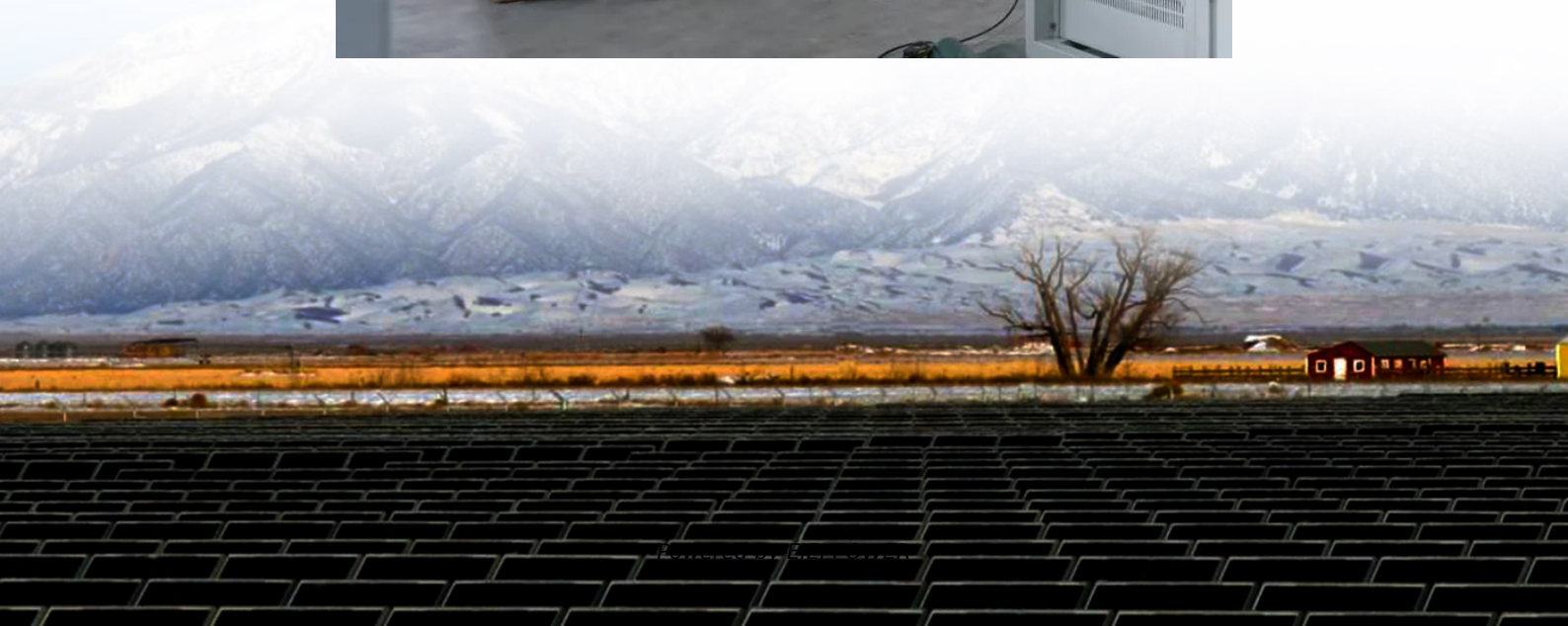


# Tokyo Vanadium Flow Battery 2025





## Overview

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Are vanadium redox flow batteries sustainable?

In the pursuit of sustainable and reliable energy storage solutions, Vanadium Redox Flow Batteries offer a compelling combination of safety, longevity, and recyclability - key attributes of any truly environmentally friendly and long-duration energy storage technology.

What is Sumitomo Electric's redox flow battery project?

According to Sumitomo Electric, it will be the first redox flow battery project to receive support through a government subsidy programme for large-scale energy storage, run by the Ministry of Economy, Trade & Industry (METI) and Agency for Natural Resources and Energy.

What is a vanadium redox flow battery (VRFB)?

In contrast, technologies like vanadium redox flow batteries (VRFBs) rely on reusable liquid electrolytes and recyclable hardware, enabling a more robust and predictable pathway toward circular energy storage.

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.



## Tokyo Vanadium Flow Battery 2025

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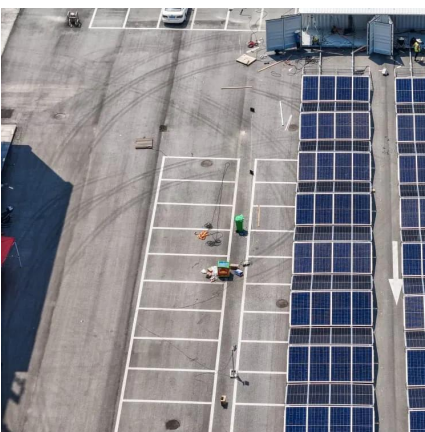


### [Sumitomo Electric Completes its First ...](#)

May 30, 2025 · Sumitomo Electric vanadium redox flow battery and SEMSA have been selected to power the Kurokiyama Solar Plant in Japan.

### **Vanadium Redox Flow Batteries: A Sustainable Solution for ...**

Jul 31, 2025 · Vanadium Redox Flow Batteries (VRFBs) have emerged as a promising long-duration energy storage solution, offering exceptional recyclability and serving as an ...



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

Mar 31, 2025 · According to Sumitomo Electric, it will be the first redox flow battery project to receive support through a government subsidy ...

### [Sumitomo Electric Successfully Completes its ...](#)

May 29, 2025 · Our RF battery (installed capacity of 1,125 kWh: 250 kW x 4.5 hours) will serve as the energy storage system at this power plant, storing ...



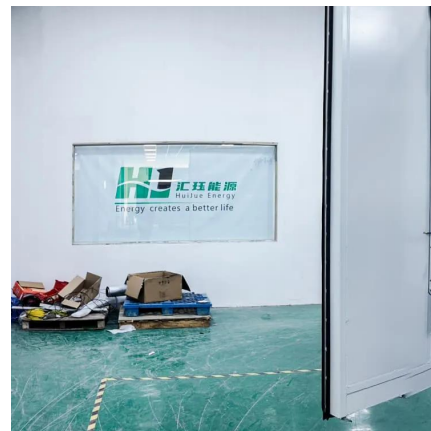
### Sumitomo Electric deploys first vanadium flow battery ...

Mar 31, 2025 · According to Sumitomo Electric, it will be the first redox flow battery project to receive support through a government subsidy programme for large-scale energy storage, run ...



### Vanadium Redox Flow Batteries: A ...

Jul 31, 2025 · Vanadium Redox Flow Batteries (VRFBs) have emerged as a promising long-duration energy storage solution, offering exceptional ...



### **Sumitomo Electric supplies flow battery for AI-led smart ...**

Aug 6, 2025 · 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 ...





## Sumitomo Electric Completes its First Vanadium Redox Flow Battery ...

May 30, 2025 · Sumitomo Electric vanadium redox flow battery and SEMSA have been selected to power the Kurokiyama Solar Plant in Japan.



## [Sumitomo Electric supplies flow battery for AI ...](#)

Aug 6, 2025 · Sumitomo Electric Industries has installed a vanadium redox flow battery at Osaka Metropolitan University as part of a trial to optimize ...

## [Why Japan and China Are Betting Big on Vanadium Energy ...](#)

You know how smartphone batteries degrade after a few years? Well, imagine grid-scale energy storage that lasts 20+ years without capacity loss. That's exactly why Japan and China are ...



## Top Public Companies Developing Flow Battery Technology in 2025

Nov 4, 2025 · Flow battery technologies (vanadium redox, iron flow, zinc-bromine, organic flow) are gaining attention for grid-scale applications because of durability, scalability and safety. ...



## [Development and Modelling of Large-scale Vanadium ...](#)

Jun 25, 2025 · Development and Modelling of Large-scale Vanadium Flow Batteries June, 2025  
Daisaku Taguchi, K. Fujikawa, T. Kanno, K. Yamanishi Sumitomo Electric Industries, Ltd.



## **Highly stable electrolyte enables wide temperature vanadium flow batteries**

Jul 1, 2025 · Vanadium flow batteries (VFB) offer an ideal solution to the issue of storing massive amounts of electricity produced from intermittent renewables. However, the historical ...

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

Mar 3, 2025 · Japanese manufacturer Sumitomo Electric has released a new vanadium redox flow battery (VRFB) suitable for a variety of long-duration configurations. Unveiled at Energy ...



## **Sumitomo Electric Successfully Completes its First Vanadium Redox Flow**

May 29, 2025 · Our RF battery (installed capacity of 1,125 kWh: 250 kW x 4.5 hours) will serve as the energy storage system at this power plant, storing excess power during the day and ...



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