



Japan's all-vanadium commercial solar container project factory is in operation

<div class="df_qntext">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(TM),*2 has been adopted as the energy storage system for the "Kurokiyama Solar Power Plant," which was developed by Minamikyushu City, Kagoshima Prefecture.

<div class="df_qntext">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.

<div class="df_qntext">When was Sumitomo Electric's new energy storage system installed?

The system was installed on September 30. Sumitomo Electric has already received a new order for an additional system of equivalent scale, underlining the growing interest in long-duration energy storage solutions.

<div class="df_qntext">When was the 'Kurokiyama solar power generation installation project' completed?

A completion ceremony for the "Kurokiyama Solar Power Generation Installation Project" was held on April 22, 2025, after the construction work by Mitaden Co., Ltd. (Headquarters: Kagoshima City, Kagoshima Prefecture; President: Izumi Hirose), which was contracted to design and construct the project.

<div class="df_qntext">Does Sumitomo Electric have a long-duration energy storage system?

Sumitomo Electric has already received a new order for an additional system of equivalent scale, underlining the growing interest in long-duration energy storage solutions. Kashiwazaki City, historically known and developed as a hub for the oil and nuclear industries, has played a significant role in the Japan's national energy policies.

<div class="df_qntext">How does Sumitomo Electric support sustainable local communities?

Sumitomo Electric is supporting the realization of sustainable local communities by leveraging the energy storage and supply capabilities of VRFBs.

In Japan, land has been an issue for renewable energy developers, especially for solar projects. However, Hokkaido island, despite having area available, faces the challenge of balancing ...

A microfluidic all-vanadium photoelectrochemical cell for solar energy storage Xiaohong Jiao^{a,b}, Rong Chen^{a,b*}, Xun Zhua^b, Qiang Liao^{a,b}, Dingding Yea^b, Biao Zhang^{a,b}, Liang Anc, Hao Feng^{a,b}, Wei ...



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Japan is the world leader in floating solar power, with over 60% of the world's floating solar capacity. Japan's Solar PV Industry is Set for Fresh Growth: Japan is a leader in solar PV ...

This study explores various approaches in a commercial 6 kW/43kAh VRFB system utilizing anion exchange membranes. (i) A comparative analysis between operation with and without ...

The project will be completed by the end of March 2022. Industrial equipment and engineering supplier Sumitomo Electric, a subsidiary of one of Japan's largest trading houses, ...

The solar container can be used for short-term use at events, for longer use, for example over the summer months, or as a long-term solution. To cover the wide range of requirements, we make a ...

The commercial development and current economic incentives associated with energy storage using redox flow batteries (RFBs) are summarised. The analysis is focused on the all ...

Taiyo Koko, Japanese major maker of molybdenum and vanadium product maker, held a completion ceremony of a new factory and an electron beam furnace to produce high-purity metallic vanadium on ...

It was also found that the photocurrent density was increased with the vanadium ion concentration as a result of the enhanced mass transfer. The results obtained in this work reveal that ...

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