

High energy storage vanadium battery project



Overview

China has launched the world's first gigawatt-hour scale vanadium flow battery energy storage project, marking a major milestone in long-duration grid-scale storage. The flow battery installation is co-located with a PV plant. Located in Jimusar County, Xinjiang, the project provides a total installed capacity of 200 MW / 1,000 MWh, enabling up to five hours. At 11:16 on 25 January 2026, the Phase-1 “verification base” (12MW/60MWh) — dispatched under the name Panyuan Energy Storage Power Station — cleared the dispatch center's continuous trial-run requirements.

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World's Largest Vanadium Flow Battery Project Operational

The Jimusar project demonstrates the unique advantages of vanadium flow batteries for utility-scale applications: Liquid electrolytes in external tanks separate power from energy capacity, ...

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China's Vanadium Flow Battery Storage Sector Updates (Jun-Jul 2025)

Jimsar, Xinjiang: China's largest all-vanadium flow energy storage project (100 MW/400 MWh) was completed, reducing annual CO2 emissions by 1.6 million tons and enhancing grid ...

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Energy storage(KWH)

102.4kWh

Nominal voltage(Vdc)

512V

Outdoor All-in-one ESS cabinet



China connects world's largest vanadium flow battery project

The world's first gigawatt-hour scale vanadium flow battery energy storage project has entered operation in China, with total installed capacity of 200 MW/ 1,000 MWh.

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SPIC Sichuan's Panzhihua 100MW/500MWh Vanadium Flow Battery ...

The project is one of Sichuan's first batch of new-type energy storage demonstration projects, and is described as the province's first grid-side independent vanadium flow battery station ...



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World's first gigawatt-hour-scale flow battery project goes into

The start of operation of Jimusaer Vanadium Flow Battery Energy Storage Project, a 5-hour duration, 200MW (1,000MWh) vanadium redox flow battery (VRFB) project in China's Xinjiang ...

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Vanadium ion battery (VIB) for grid-scale energy storage

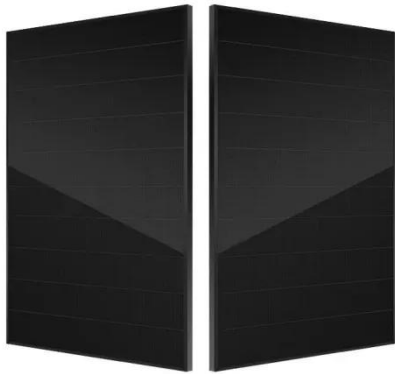
With the aim to address these challenges, we herein present the vanadium ion battery (VIB), an advanced energy storage technology tailored to meet the stringent demands of large-scale ...

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Rongke Power Delivers the World's First GWh-Scale

Vanadium Flow ...



The project is also one of the world's largest vanadium flow battery energy storage projects to date. The project provides a total installed capacity of 200 MW / 1,000 MWh, enabling up ...

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Recently, Shanghai Electric Energy Storage Technology Co., Ltd

Recently, Shanghai Electric Energy Storage Technology Co., Ltd. successfully won the bid for the 10mW/40MWh all-vanadium liquid flow energy storage project at the Fengxian Spark comprehensive ...

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CE UN38.3 MSDS



Sumitomo Electric Develops Advanced Vanadium Redox Flow Battery

Sumitomo Electric is pleased to introduce its advanced vanadium redox flow battery (VRFB) at Energy Storage North America (ESNA), held at the San Diego Convention Center from ...

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Vanadis Energy , Vanadium Solid-state Battery ...

Vanadis Energy delivers advanced vanadium solid-state batteries offering superior safety, long life, and scalable performance for next-generation energy storage.

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