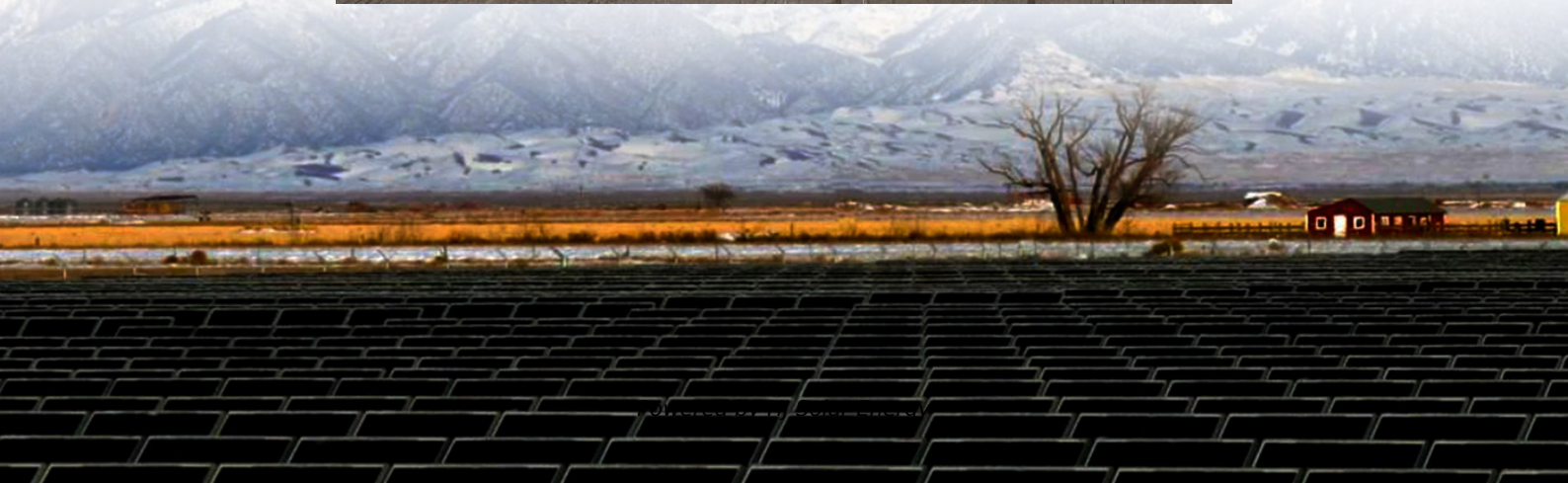


Successful bid price of VRFB energy storage project in Singapore 2025





Overview

What is a VRFB battery?

By providing long-lasting, efficient, and safe energy storage, VRFBs are an ideal solution for integrating renewable energy sources into the power grid for a stable, green energy future. Where have you deployed these batteries in Singapore?

.

Why did Enterprise Singapore support vflowtech?

Mr Geoffrey Yeo, Assistant Managing Director, EnterpriseSG, said, “Enterprise Singapore is happy to have supported VFlowTech in the development of its innovative battery energy storage solution, leading to this latest milestone for large-scale deployment at Advario’s terminal.

What makes a VRFB a standout feature?

A standout feature of VRFBs is how power and energy storage capacity are separate. Their power output is defined by the electrochemical stack, whereas their energy storage capacity is determined by the size of the external tanks.

How much did vflowtech raise?

The Singapore-headquartered tech company has raised US\$20.5 million in its latest funding round, VFlowTech said in a statement sent to Energy-Storage.news this morning. VFlowTech’s modular VRFB product, the Powercube, designed for long-duration energy storage (LDES) applications, comes in two models: 50kW/250kWh and 100kW/500kWh.

How do vflowtech batteries work on Jurong Island?

We have a 1 megawatt-hour (MWh) energy storage system at Pulau Ubin, where our batteries provide round the clock energy to residents on the island. VFlowTech’s energy storage system at Pulau Ubin. We are also working on



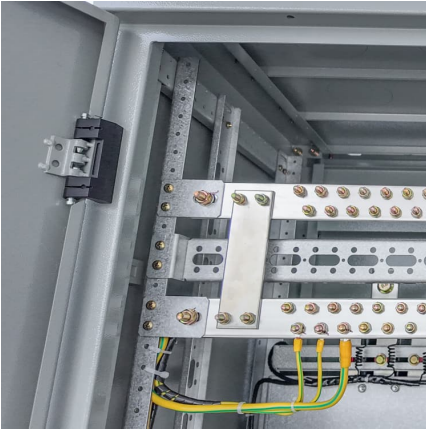
another project to use vanadium flow batteries in industrial tanks on Jurong Island.

Why should you choose a VRFB?

This design means VRFBs can be adjusted to meet different energy and power needs independently, making them flexible to the needs of individual projects. Safety is another key advantage of VRFBs. Unlike lithium-ion batteries, which rely on flammable organic electrolytes, VRFBs use non-flammable aqueous solutions, reducing fire risks significantly.



Successful bid price of VRFB energy storage project in Singapore 20

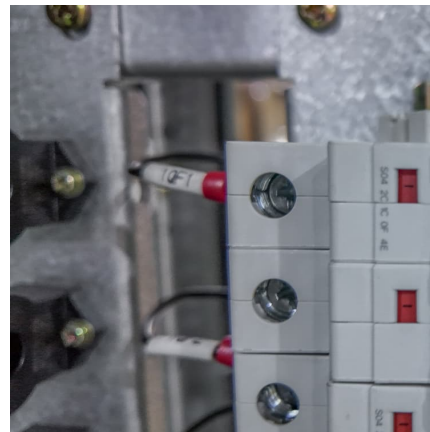


[Singapore Vanadium Redox Flow Battery \(VRFB\) Market](#)

The Singapore Vanadium Redox Flow Battery (VRFB) market is currently experiencing significant shifts driven by both global innovation and local strategic initiatives.

[VFlowTech bags US\\$10 million for 200MWh ...](#)

Singapore-based VFlowTech has raised a US\$10 million Series A to set up a manufacturing facility and scale up production of its 250kWh vanadium flow battery product.



VFlowTech Secures \$20.5M to Accelerate Global Clean Energy

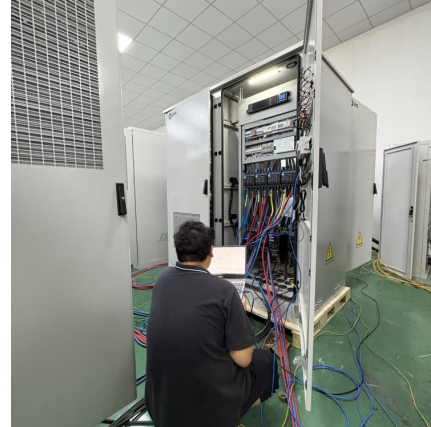
Established in 2018, VFlowTech has quickly become a leader in the development and manufacturing of long-duration energy storage systems, with a specialized ...

[Vanadium Redox Battery Market Size, Share, CAGR ...](#)

Report Overview Global Vanadium Redox Battery Market is expected to be worth around USD 4,971.8 million by 2034, up from USD 809.7



million in 2024, and grow at a CAGR of 19.9% from 2025 to 2034. Asia-Pacific's Vanadium Redox ...



[Energy Storage Cost and Performance Database](#)

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storage For more information about each, as well
as the related cost estimates, please click on ...



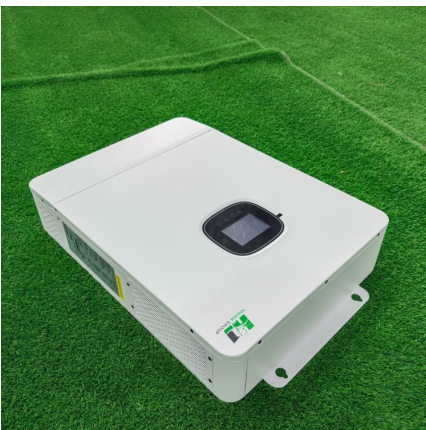
[Redox Flow Battery Market Size to Worth USD ...](#)

The redox flow battery market is gaining momentum as global demand for efficient energy storage rises alongside renewable energy adoption. Driven by supportive green policies and growing grid stability needs, the ...



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June Highlights State Energy Groups VRFB System Success, Xinjiang VRFB

? Summary ? In June, State Energy Groups 2MW/8MWh vanadium redox flow battery VRFB system passed grid connection tests, showcasing advanced technologies and exceeding ...



JTC, VFT, Advorio sign MoU for energy storage in Jurong Island

It aims to optimise the storage of excess electricity from renewables. JTC, VFlowTech (VFT), and Advorio Asia Pacific have signed a memorandum of understanding ...

[Vanadium producer Bushveld invests in scale up of](#)

South African vanadium producer Bushveld Minerals is investing US\$7.5 million in vanadium redox flow battery (VRFB) energy storage company Enerox, which is planning to scale up its manufacturing capabilities. Bushveld ...



Vanadium redox battery

Schematic design of a vanadium redox flow battery system [5] 1 MW 4 MWh containerized vanadium flow battery owned by Avista Utilities and manufactured by UniEnergy Technologies A vanadium redox flow battery located at the ...



VFlowTech's Revolutionizing Renewable Energy Storage with VRFB ...

To provide safe, sustainable, and scalable energy storage solutions, Avishek Kumar and Arjun Bhattarai founded VFlowTech in 2018. The company provides vanadium ...



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

Japanese manufacturer Sumitomo Electric has released a new vanadium redox flow battery (VRFB) suitable for a variety of long-duration configurations. Unveiled at Energy Storage North America (ESNA), held in San ...

Redox recap: New flow battery JV in US, Japanese utility adds ...

"Storion Energy's competitive VRFB pricing model is expected to challenge the dominance of lithium for utility-scale deployments, increase the adoption of this technology and ...



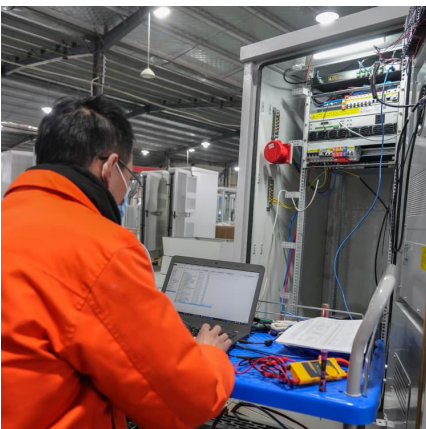


World's largest vanadium flow battery goes online in ...

A giant solar-plus-vanadium flow battery project in Xinjiang has completed construction, marking a milestone in China's pursuit of long-duration, utility-scale energy storage.

Guizhou Zhixi Technology Signed A Contract With Baiyang City, ...

On March 19, Li Keqiong, mayor of Baiyang, the 9th Division, and Gao Lijiang, vice president of Hebei Institute of China Power Construction and general manager of ...



NTPC Calls for Bids on VRFB Storage System at its NETRA ...

NTPC Calls for Bids on VRFB Storage System at its NETRA Facility in Greater Noida This project involves a 600 kW/3000 kWh VRFB system, and the bidding process will ...

[VFlowTech bags US\\$10 million for 200MWh ...](#)

The company's VRFB at the CleanTech One business park in Singapore. Image: VFlowTech. Singapore-based VFlowTech has raised a US\$10 million Series A to set up a manufacturing facility and scale up production of its ...



[Delectrik Systems Wins NTPC Tender to Deploy 3 MWh ...](#)

Delectrik Systems Pvt. Ltd. has bagged a tender from NTPC for its NETRA division (NTPC Energy Technology Research Alliance) to deploy a 3 MWh Vanadium Redox ...



[World's largest vanadium flow battery in China ...](#)

The Xinhua Ushi ESS Project is a 4-hour duration project using vanadium redox flow battery (VRFB) technology, one of the more commercially mature long-duration energy storage (LDES) technologies available on the ...



Singapore flow battery maker VFlowTech raises US\$20.5 million

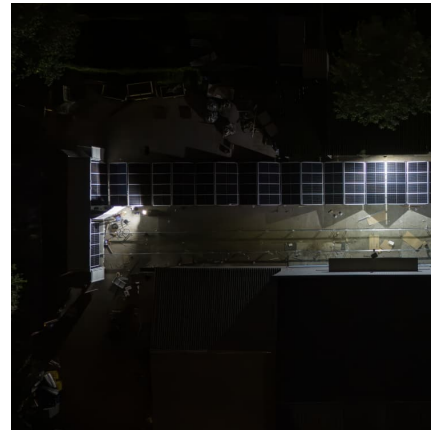
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[Energy Storage Cost and Performance Database](#)

hydrogen energy storage pumped storage
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compressed air energy storage thermal energy
storage For more information about each, as well
as the ...



Singapore's Energy Transition

Singapore is bringing in large-scale imports of 4 GW by 2035, ~30% of Singapore's energy supply. In Mar and Sep this year respectively, EMA announced the granting of conditional ...

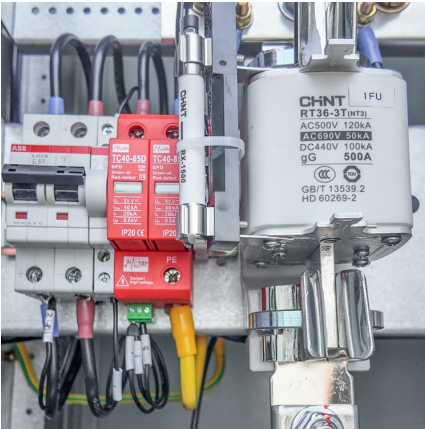
[226MWh of vanadium flow batteries on the way for](#)

California's largest VRFB project to date, supplied by Japan's Sumitomo Electric Industries (SEI), has been participating in wholesale market opportunities since 2018. Image: SDG& E / Ted Walton. Four new grid-scale ...



VFlowTech Secures \$20.5 Million in Funding Led by Granite Asia ...

Singapore-based energy storage startup VFlowTech has announced a significant milestone in its journey towards revolutionizing the energy sector. The company has ...



China completes world's largest vanadium flow battery ...

A giant solar-plus-vanadium flow battery project in Xinjiang has completed construction, marking a milestone in China's pursuit of long-duration, utility-scale energy storage.



[India's NTPC tenders for 3MWh flow battery at ...](#)

E22's vanadium flow battery installation for Bharat Heavy Electrical in Gujarat, installed in 2022. Image: E22 NTPC, India's biggest electric power utility with a 76GW generation fleet, has opened a tender for a long ...

REopt Models Optimal Battery Dispatch Strategies for Sumitomo ...

Sumitomo Electric's utility-scale vanadium redox flow battery energy storage system. Photo by Dylan Cutler, NREL NREL collaborated with Sumitomo Electric to provide ...



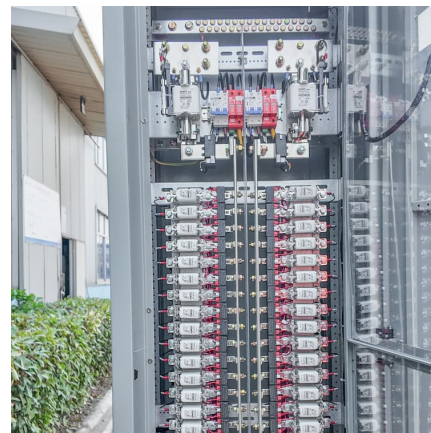


JTC, Advario, VFlowTech sign MOU to scale clean energy storage ...

JTC has signed a memorandum of understanding (MOU) with energy infrastructure firm Advario Asia Pacific (Advario) and Singapore-headquartered energy storage ...

Energising Change: VFlowTech's Innovative ...

Deploying energy storage systems underground sounds interesting. How will this be significant for Singapore if successful, and what challenges do you anticipate?



JTC, Advario, VFlowTech sign MOU to scale clean ...

JTC has signed a memorandum of understanding (MOU) with energy infrastructure firm Advario Asia Pacific (Advario) and Singapore-headquartered energy storage firm VFlowTech to collaborate on scaling up ...

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