



WALMER ENERGY

# Lome vanadium flow battery





## Overview

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What is the capacity of the world's largest vanadium flow battery?

It has a capacity of 175 MW/700 MWh. On December 5, 2024, Rongke Power (RKP) completed the installation of the world's largest vanadium flow battery . With a capacity of 175 MW and 700 MWh, this innovative energy storage system, located in Ushi, China, sets a new standard in long-duration energy storage solutions.

How does a vanadium flow battery work?

VFB's can operate for well over 20,000 discharge cycles, as much as 5 times that of lithium systems. Therefore, the cost of ownership is lower over the life of the battery. Power and energy are decoupled or separated inside a vanadium flow battery. Power is expressed by the size of the stack; the energy by the volume of electrolyte in the tanks.

What is a vanadium flow battery (VFB)?

Our innovative vanadium flow batteries (VFBs) are designed to provide reliable, long-lasting energy storage for a greener tomorrow. Accelerating global progress towards net-zero targets with advanced vanadium flow battery (VFB) energy storage solutions. Water-based electrolyte, no thermal runway.

Why is Rongke Power a global leader in vanadium flow batteries?

With this achievement, Rongke Power reaffirms its position as a global leader in vanadium flow battery technology. The project also serves as a model for future installations worldwide, proving that vanadium flow batteries are a viable option for large-scale energy management. Follow us on social networks and don't miss any of our publications!



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Rongke Power

Jun 23, 2025 · Welcome to Rongke Power. Discover our world-leading vanadium flow battery with unmatched efficiency, sustainability, and reliability. Explore key features and applications of ...

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A comprehensive review of vanadium redox flow batteries: ...

Dec 1, 2025 · The Vanadium Redox Flow Battery (VRFB) has recently attracted considerable attention as a promising energy storage solution, known for its high efficiency, scalability, and ...

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World's largest vanadium redox flow project ...

Dec 10, 2024 · Dalian-headquartered Rongke Power has completed the construction of the 175 MW/700 MWh vanadium flow battery project in ...

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What's Behind China's Massive New Flow Battery ...

Dec 10, 2024 · China has established itself as a global leader in energy storage technology by completing the world's largest vanadium redox flow battery project.

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Vanadium Flow Batteries: Industry Growth & Potential

Aug 22, 2025 · Explore the rise of vanadium flow batteries in energy storage, their advantages, and future potential as discussed by Vanitec CEO John Hilbert.

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World's largest vanadium redox flow project completed

Dec 10, 2024 · Dalian-headquartered Rongke Power has completed the construction of the 175 MW/700 MWh vanadium flow battery project in China, growing its global fleet of utility-scale ...

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Rongke Power Completes World's First Grid-Connected GWh-Scale Vanadium

May 29, 2025 · The world's first GWh-scale, fully grid-connected vanadium flow battery energy storage project officially went online on May 28 in Jimsar County, Changji Prefecture, Xinjiang.

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Enerflow plans 1.2 GWh vanadium flow battery project for ...

2 days ago · China's Enerflow will partner with Perth-based firm Jenmi Investments to jointly develop a 350 MW / 1,200 MWh long-duration storage project, marking a major step for ...

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UK Flow Battery To Be Tested In US

1 day ago · Vanadium flow battery technology from the UK will be the first to go through its paces at a new energy storage test facility in the US.

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Enerflow plans 1.2 GWh vanadium flow ...

2 days ago · China's Enerflow will partner with Perth-based firm Jenmi Investments to jointly develop a 350 MW / 1,200 MWh long-duration ...

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Western Australia's 500MWh vanadium flow battery initiative ...

15 hours ago · Vanadium flow battery stacks are also degradation-free over many cycles, versus Li-ion BESS installations, where increased power and cycling demand could result in voided ...

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The world's largest vanadium flow battery was completed

On December 5, 2024, Rongke Power (RKP) completed the installation of the world's largest vanadium flow battery . With a capacity of 175 MW and 700 MWh, this innovative energy ...

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Vanadium Flow Batteries: Industry Growth

Aug 22, 2025 · Explore the rise of vanadium flow batteries in energy storage, their advantages, and future potential as discussed by Vanitec CEO John ...

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