

Lome vanadium flow battery





Overview

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 runaway.

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

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

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World's largest vanadium redox flow project ...

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Vanadium Flow Batteries: Industry Growth & Potential

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World's largest vanadium redox flow project completed

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The world's largest vanadium flow battery was completed

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