

The world s largest 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 much energy can a vanadium flow battery store?

A press release by the company states that the vanadium flow battery project has the ability to store and release 700MWh of energy. This system ensures extended energy storage capabilities for various applications. It is designed with scalability in mind, and is poised to support evolving energy demands with unmatched performance.

How long can a vanadium flow battery last?

Vanadium flow batteries provide continuous energy storage for up to 10+ hours, ideal for balancing renewable energy supply and demand. As per the company, they are highly recyclable and adaptable, and can support projects of all sizes, from utility-scale to commercial applications.

How does a vanadium flow battery work?

The key component of a vanadium flow battery is the stack, which consists of a series of cells that convert chemical energy into electrical energy. The cost of the stack is largely determined by its power density, which is the ratio of power output to stack volume. The higher the power density, the smaller and cheaper the stack.



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[Rongke Power completes grid-forming 175MW/700MWh vanadium flow battery](#)

Technology provider Rongke Power has completed a 175MW/700MWh vanadium redox flow battery project in China, the largest of its type in the world. The Dalian and Hong Kong ...

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

Jul 4, 2025 · 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.

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

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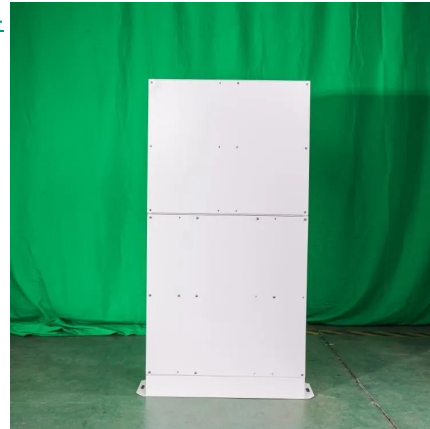
Dec 10, 2024 · The world's largest vanadium flow battery The facility, part of Rongke Power's efforts to transform the global energy landscape, aims to facilitate the integration of renewable ...





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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.



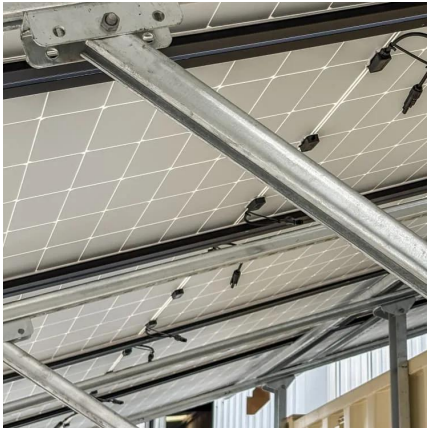
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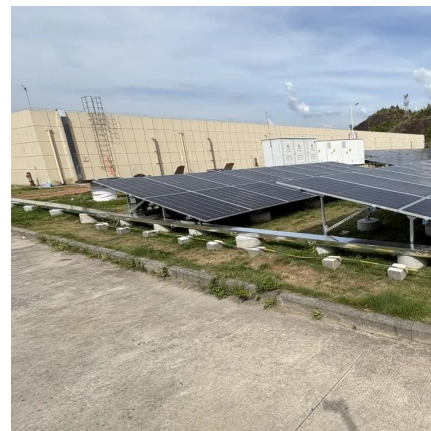


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