

# **Vanadium battery is the first choice for energy storage**





## Overview

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What is vanadium battery technology?

After 40 years of research, vanadium battery technology developed at UNSW is being used to ensure better resilience and reliability of renewable energy sources. While wind and solar generate affordable electricity, these energy sources are intermittent and rely on large-scale storage to avoid outages.

What is a vanadium redox flow battery?

To address this specific gap, Vanadium Redox Flow Batteries (VRFBs) have emerged as a powerful and promising technology tailored for large-scale energy storage. The defining characteristic of a VRFB is the unique decoupling of its power and energy capacity.

Are vanadium-based flow batteries a good choice for energy storage?

Strength: Vanadium-based flow batteries are well-established and trusted within the energy storage industry, with multiple vendors providing reliable systems. These batteries perform consistently well, and larger-scale installations are becoming more common, demonstrating their ability to meet growing demands.

Are vanadium flow batteries safe?

Vanadium flow batteries offer a high level of safety due to their non-flammable electrolyte. The vanadium electrolyte is chemically stable, reducing the risk of hazardous reactions. 4. Long Lifecycle Vanadium flow batteries can last 20 years or more with minimal degradation in performance.



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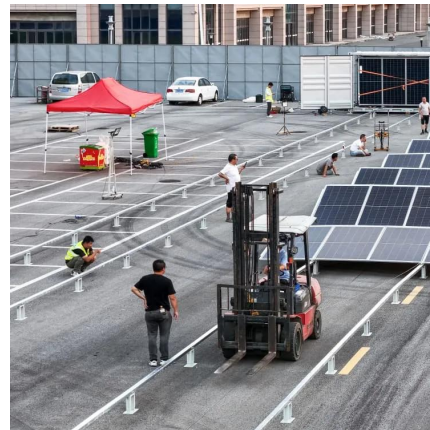


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