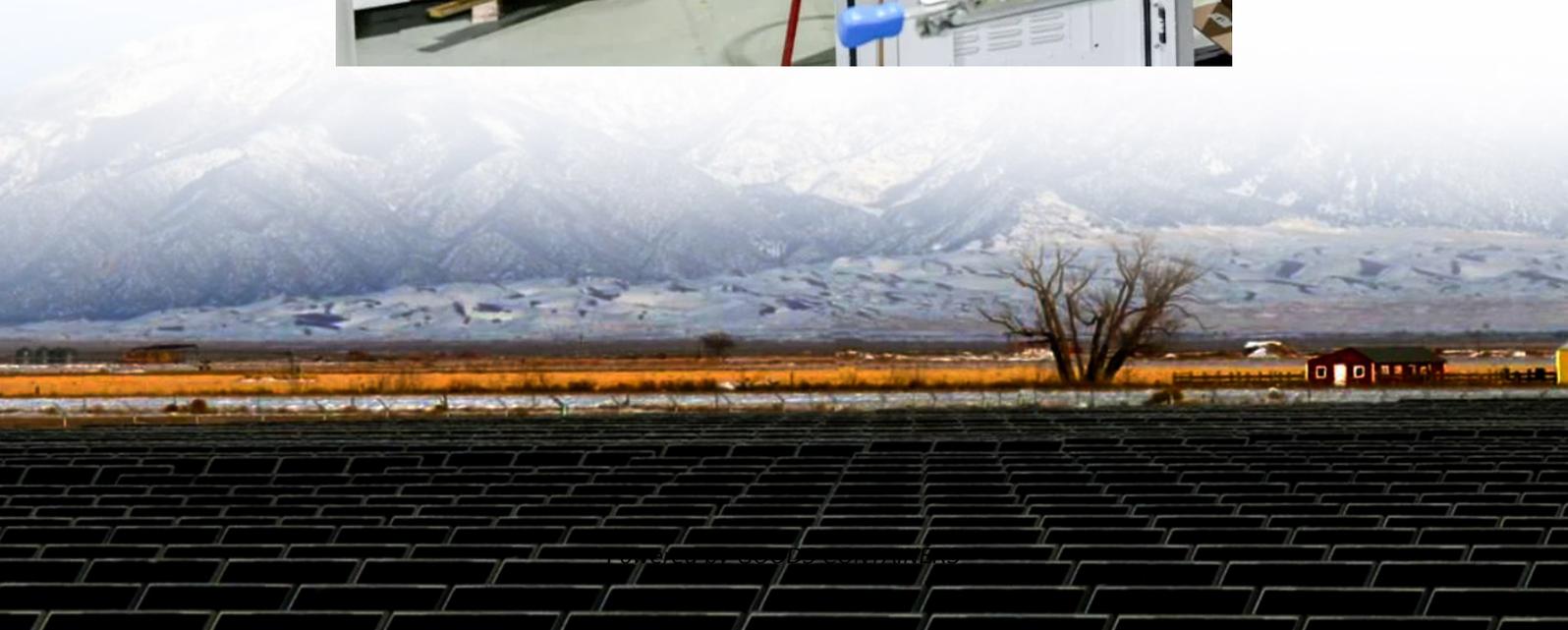


Indian all-vanadium liquid flow battery





Overview

What is India's first MWh-scale vanadium flow battery at NTPC Netra?

About India's First MWh-Scale Vanadium Flow Battery at NTPC NETRA: What it is?

The Vanadium Redox Flow Battery (VRFB) is an advanced liquid-electrolyte-based energy storage system, designed as a sustainable alternative to lithium-ion batteries for grid-scale storage.

What is a vanadium flow battery?

Unlike conventional chemistries that rely on scarce materials, vanadium flow batteries use a liquid electrolyte and are known for longer lifespan, safety, and scalability. The project diversifies India's storage ecosystem, reducing dependence on imported lithium while paving the way for indigenous battery manufacturing.

What is a vanadium redox flow battery?

The newly commissioned Vanadium Redox Flow Battery marks a significant technological advancement in India's renewable energy ecosystem. Unlike conventional lithium-ion batteries, vanadium flow batteries use liquid electrolytes, allowing them to store energy for extended durations with enhanced safety, longer life cycles, and scalability.

Who inaugurated India's largest vanadium redox flow battery system?

Power Minister Manohar Lal Khattar inaugurates India's largest Vanadium Redox Flow Battery system at NTPC NETRA, Greater Noida a breakthrough by public sector undertaking NTPC Ltd. in advancing renewable integration and grid resilience.



Indian all-vanadium liquid flow battery



[India's First 3 MWh Vanadium Flow Battery Project ...](#)

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[Why is India Gaining Traction in Vanadium Redox Flow Batteries?](#)

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[Indian Energy Storage Industry Calls for Alternative Battery](#)

Jul 10, 2025 · Speakers at India Energy Storage Week highlight alternative solutions including vanadium redox flow batteries and sodium-ion technology for renewable energy targets.

[India launches first MWh-scale Vanadium Flow Battery](#)

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