

# India s all-vanadium flow battery



## Overview

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The Minister of Power and Housing & Urban Affairs inaugurated India's largest and first MWh-scale Vanadium Redox Flow Battery (VRFB) system of 3 MWh capacity. It wasn't just a ribbon-cutting. This marks a major step towards long-duration energy storage (LDES) solutions, enhancing renewable energy integration and grid resilience. Read here to learn more about the breakthrough in India's energy storage mission.

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### India Launches First Megawatt-Scale Vanadium Flow Battery

Developed by NTPC's R& D centre, the VRFB represents an innovative alternative to lithium-ion batteries. India took a decisive step toward energy independence with the inauguration of ...

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### India Unveils First MWh-Scale Vanadium Flow Battery at NTPC ...

Shri Manohar Lal inaugurates India's first MWh-scale Vanadium Redox Flow Battery at NTPC NETRA, boosting renewable energy storage and grid stability. India has achieved a major ...



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### India's largest and first MWh-Scale Vanadium Redox Flow Battery ...

Flow Batteries, along with solid state batteries, are one of the next generation battery technologies and are emerging as an alternative to lithium-ion for grid-scale applications, offering ...



## India's First 3 MWh Vanadium Flow Battery Project Commissioned at ...

India's first MWh-scale Vanadium Redox Flow Battery (VRFB) project has been commissioned by NTPC at its research and development center, the NTPC Energy Technology ...



## India's First MWh-Scale Vanadium Flow Battery

The Minister of Power and Housing & Urban Affairs inaugurated India's largest and first MWh-scale Vanadium Redox Flow Battery (VRFB) system of 3 MWh capacity. This marks a major ...

## India Launches Its First 3 MWh Vanadium Redox Flow Battery

The 3 MWh VRFB system marks India's largest and first-of-its-kind deployment of flow battery technology, capable of providing long-duration energy storage (LDES) solutions. This ...



## Vanadium Redox Flow Battery (VRFB) System

India has inaugurated its largest and first megawatt-hour (MWh)-scale Vanadium Redox Flow Battery (VRFB) system,



boasting a 3 MWh capacity. Read here to learn more about the ...

## Can Vanadium Flow Batteries Fulfil India's 24/7 Renewable Dream

India took a quiet but historic step on 11 November 2025, when NTPC NETRA inaugurated the country's first megawatt-hour scale vanadium redox flow batteries (VRFB) -- a 3 ...



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