

# India All-Vanadium Liquid Flow Energy Storage Power Station



## Overview

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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 MWh system designed to store renewable energy for long hours. It wasn't just a ribbon-cutting.

## India All-Vanadium Liquid Flow Energy Storage Power Station

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### India's First 3 MWh Vanadium Flow Battery Project

The project, inaugurated by Union Minister for Power Manohar Lal, represents a significant step in India's push for long-duration energy storage

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### Indian power utility invites bids for a 100 MWh

NTPC Renewable Energy Ltd (NTPC REL), an arm of India's largest integrated power utilities, NTPC Ltd, has invited bids for the engineering,



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India is a country that occupies the greater part of South Asia. It is a constitutional republic that represents a highly diverse population consisting of thousands of ethnic groups. It is made up of



[India Unveils First MWh-Scale Vanadium Flow Battery](#)

Shri Manohar Lal inaugurates India's first MWh-scale Vanadium Redox Flow Battery at NTPC NETRA, boosting renewable energy storage and

[All vanadium liquid flow energy storage enters the GWh era!](#)

On November 3rd, the bid for the 1GWh all vanadium flow battery energy storage system of CNNC Huineng was opened, and five companies were shortlisted!



**Can Vanadium Flow Batteries Fulfil India's 24/7**

India took a quiet but historic step on 11 November 2025, when NTPC NETRA inaugurated the country's first megawatt-hour scale vanadium

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[All-vanadium liquid flow energy storage demonstration power](#)

The intelligent production base of all-vanadium liquid flow energy storage equipment, new-type



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### India country profile

Provides an overview of India, including key events and facts about the world's largest democracy.



### VANADIUM FLOW BATTERIES: DURABLE / SAFE / SCALABLE

Vanadium flow technology, which uses a safe,

energy storage power stations of more than 2GW, and 7GW photovoltaic power generation



### [The construction of Hami's first 100MW/400MWh all-vanadium liquid](#)

On July 21, a 100MW/400MWh vanadium liquid flow energy storage power station was completed in Hami Shichengzi Photovoltaic Industrial Park.



### [NTPC REL Launches Tender For 100 MWh Vanadium Flow Battery](#)

This tender marks an important step toward building advanced storage infrastructure to support India's growing renewable energy capacity. The project aims to install a 16.7 MW / 100 MWh

non-flammable, water-based electrolyte to store energy, was first developed in the 1980's and is now the leading alternative to lithium-ion, with over 2200



#### India Maps & Facts

India is a large country located on the Indian subcontinent in south-central Asia. India is geographically positioned both in the Northern and Eastern hemispheres of the Earth.

#### [All-vanadium liquid flow battery energy storage technology](#)

All-vanadium liquid flow battery energy storage technology is a key material for batteries, which accounts for half of the total cost. A container with a



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