

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global All-Vanadium Redox Flow Battery (VRFB) Electrolyte market size is expected to reach \$ 478 million by 2032, rising at a market growth of 14.2% CAGR during the forecast period (2026-2032).

All-Vanadium Redox Flow Battery Electrolyte is an acidic aqueous vanadium electrolyte solution used in all-vanadium redox flow battery systems. It typically consists of vanadium ions in different oxidation states, sulfuric acid or mixed-acid supporting electrolytes, and functional additives. The positive and negative electrolytes are stored in external tanks and circulated through the battery stack to complete charge and discharge reactions. The product directly determines the energy capacity, cycle life, safety profile, and system cost of a VRFB system, making it a key material for long-duration energy storage, grid-scale storage, and renewable energy storage applications.

From a supply-chain perspective, the major production and application regions include China, the United States, Canada, Australia, Europe, and Japan, with China developing a strong industrial base supported by vanadium resources, vanadium chemicals, electrolyte manufacturing, and energy storage project deployment. The product is mainly used in grid peak shaving, wind and solar energy storage, commercial and industrial storage, microgrids, data center backup power, and long-duration stationary storage projects where inherent safety, deep cycling, long service life, and recyclability are key requirements.

In 2025, global commercial sales of All-Vanadium Redox Flow Battery Electrolyte reached approximately 68,000 to 76,000 cubic meters, with mainstream FOB prices ranging from USD 2,350 to USD 2,800 per cubic meter. Driven by long-duration energy

storage projects, renewable energy integration, and fluctuations in vanadium raw material prices, the global market remained in the early stage of scale-up. However, as projects in China, North America, Europe, and Australia accelerated, electrolyte supply was shifting from demonstration-project matching to batch commercial delivery, and the price range was gradually stabilizing.

The global All-Vanadium Redox Flow Battery Electrolyte market is moving from demonstration-project supply toward scaled commercial delivery, with its core opportunity coming from rising demand for long-duration energy storage in power systems. Compared with short-duration technologies such as lithium-ion batteries, VRFBs offer inherent safety, long cycle life, independently scalable power and energy capacity, and stable deep-discharge performance, making them particularly suitable for grid peak shaving, renewable power smoothing, industrial park storage, and large microgrid applications. For electrolyte suppliers, market growth will come not only from new energy storage projects, but also from system expansion, maintenance of existing electrolyte assets, concentration upgrades, recycling, and long-term supply contracts. As power systems in major economies integrate higher shares of wind and solar energy, flow batteries capable of supporting storage durations above 6 hours are gaining stronger project attention, and electrolyte is becoming increasingly strategic as the core medium that determines energy capacity and material cost.

However, the market still faces significant uncertainties. Volatility in vanadium prices directly affects electrolyte manufacturing costs and influences the competitiveness of VRFBs against lithium-ion batteries, sodium-ion batteries, iron-based flow batteries, and other long-duration storage technologies. In addition, electrolyte concentration, impurity control, valence stability, temperature adaptability, and long-term cycling performance remain key competitive factors among suppliers. In high-temperature, low-temperature, and large-scale long-cycle operating environments, electrolyte stability directly affects system availability and project economics. Future downstream demand will continue to concentrate on large-capacity, high-safety, long-life, and recyclable storage projects. Utilities, renewable energy owners, commercial and industrial users, and energy storage system integrators will remain the main buyers, while market competition will gradually shift from simple product supply to integrated competition in resource security, cost control, formulation technology, quality consistency, and project delivery capability.

This report studies the global All-Vanadium Redox Flow Battery (VRFB) Electrolyte production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for All-

Vanadium Redox Flow Battery (VRFB) Electrolyte and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of All-Vanadium Redox Flow Battery (VRFB) Electrolyte that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte total production and demand, 2021-2032, (Cubic Meter)

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte total production value, 2021-2032, (USD Million)

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Cubic Meter), (based on production site)

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte consumption by region & country, CAGR, 2021-2032 & (Cubic Meter)

U.S. VS China: All-Vanadium Redox Flow Battery (VRFB) Electrolyte domestic production, consumption, key domestic manufacturers and share

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Cubic Meter)

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Cubic Meter)

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Cubic Meter)

This report profiles key players in the global All-Vanadium Redox Flow Battery (VRFB) Electrolyte market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Dalian Rongke Power Co., Ltd., Hunan Yinfeng New Energy Co., Ltd., Pangang Group Vanadium Titanium and Resources Co., Ltd., Hbis Company Limited, Beijing Star New Energy Technology Co., Ltd., Sichuan V-LiQuid Energy Co., Ltd., U.S. Vanadium LLC, Storion Energy LLC, VanadiumCorp Resource Inc., Australian Vanadium Limited, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World All-Vanadium Redox Flow Battery (VRFB) Electrolyte market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Cubic Meter) and average price (US\$/Cubic Meter) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte Market, Segmentation by Type:

New System Electrolyte

Expansion Electrolyte

Replacement Electrolyte

Others

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte Market, Segmentation by Electrolyte Chemistry:

Sulfate Based Electrolyte

Mixed Acid Electrolyte

Modified Additive Electrolyte

Others

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte Market, Segmentation by Electrolyte Form:

Ready to Use Liquid Electrolyte

Concentrated Liquid Electrolyte

Others

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte Market, Segmentation by Purity Grade:

Battery Grade Electrolyte

High Purity Electrolyte

Others

Global All-Vanadium Redox Flow Battery (VRFB) Electrolyte Market, Segmentation by Application:

Grid Scale Energy Storage

Renewable Energy Storage

Industrial and Commercial Energy Storage

Others

Companies Profiled:

Dalian Rongke Power Co., Ltd.

Hunan Yinfeng New Energy Co., Ltd.

Pangang Group Vanadium Titanium and Resources Co., Ltd.

Hbis Company Limited

Beijing Star New Energy Technology Co., Ltd.

Sichuan V-LiQuid Energy Co., Ltd.

U.S. Vanadium LLC

Storion Energy LLC

VanadiumCorp Resource Inc.

Australian Vanadium Limited

Vecco Group Pty Ltd

Bushveld Electrolyte Company Pty Ltd

LE System Co., Ltd.

Oxkem Limited

AMG Titanium GmbH

Hong Jing Metal Corporation

Delectrik Systems Pvt Ltd

Key Questions Answered:

1. How big is the global All-Vanadium Redox Flow Battery (VRFB) Electrolyte market?
2. What is the demand of the global All-Vanadium Redox Flow Battery (VRFB) Electrolyte market?
3. What is the year over year growth of the global All-Vanadium Redox Flow Battery (VRFB) Electrolyte market?
4. What is the production and production value of the global All-Vanadium Redox Flow Battery (VRFB) Electrolyte market?
5. Who are the key producers in the global All-Vanadium Redox Flow Battery (VRFB) Electrolyte market?
6. What are the growth factors driving the market demand?

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