

# Global Vanadium Redox Flow Battery (VRFB) Felt Market Growth 2026-2032

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## Abstracts

The global Vanadium Redox Flow Battery (VRFB) Felt market size is predicted to grow from US\$ 24.35 million in 2025 to US\$ 113 million in 2032; it is expected to grow at a CAGR of 25.0% from 2026 to 2032.

In 2024, global Vanadium Redox Flow Battery (VRFB) Felt production reached approximately 422 k sqm, with an average global market price of around US\$45 per sqm. Vanadium redox flow battery (VRFB) felt is a core electrode material used in VRFB systems, mainly comprising carbon felt and graphite felt. It is made from carbon fibers forming a porous structure, processed through needling, thermal treatment, or graphitization. The felt provides abundant electrochemical reaction sites, facilitates electron conduction, and ensures effective electrolyte penetration, while maintaining chemical stability and corrosion resistance. Carbon felt is flexible with high porosity, supporting efficient ion transport, whereas graphite felt, after high-temperature graphitization, offers higher electrical conductivity and durability. As a critical component of VRFBs, the felt significantly influences the efficiency, energy output, and long-term cycling stability of the battery.

Vanadium redox flow batteries (VRFBs), valued for their long lifespan, high safety, and scalable design, are emerging as a leading technology in large-scale energy storage. Carbon felt and graphite felt, as core electrode materials, play a critical role in determining battery efficiency and durability. The global expansion of the energy storage market is driving continuous growth in demand for VRFB felts. Future market prospects are shaped by two key trends: first, the advancement of commercial deployments, including large-scale power stations and distributed storage projects, will expand material demand; second, ongoing material innovations, such as surface modification, optimized porous structures, and enhanced corrosion resistance, will

improve electrochemical performance and cycling stability. Overall, as VRFB commercialization accelerates, the felt market is expected to benefit, promoting a transition from basic carbon materials to high-performance, high-value products and contributing to a more integrated and mature supply chain.

LP Information, Inc. (LPI) ' newest research report, the "Vanadium Redox Flow Battery (VRFB) Felt Industry Forecast" looks at past sales and reviews total world Vanadium Redox Flow Battery (VRFB) Felt sales in 2025, providing a comprehensive analysis by region and market sector of projected Vanadium Redox Flow Battery (VRFB) Felt sales for 2026 through 2032. With Vanadium Redox Flow Battery (VRFB) Felt sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Vanadium Redox Flow Battery (VRFB) Felt industry.

This Insight Report provides a comprehensive analysis of the global Vanadium Redox Flow Battery (VRFB) Felt landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Vanadium Redox Flow Battery (VRFB) Felt portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Vanadium Redox Flow Battery (VRFB) Felt market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Vanadium Redox Flow Battery (VRFB) Felt and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Vanadium Redox Flow Battery (VRFB) Felt.

This report presents a comprehensive overview, market shares, and growth opportunities of Vanadium Redox Flow Battery (VRFB) Felt market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Graphite Felt

Carbon Felt

### Segmentation by Application:

Large-Scale Energy Storage Battery

Uninterruptible Power Supply (UPS)

Others

### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

SGL Carbon

AvCarb

CGT Carbon

Sinotek Materials

JNTG

BWF Tec

Liaoning JinGu Carbon Materials

Shenzhen Zhonghe Energy Storage Technology

Sichuan Jiangyou Runsheng Graphite Felting

Jiangsu Mige New Material

Chemshine Carbon

Jiangsu Puxang EP Sci-Tech

Jiaxing Nike New Materials

Shenyang Fulai Carbon Fiber

Hangzhou Lingken New Material Technology

Dalian LONGTIAN Tech

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global Vanadium Redox Flow Battery (VRFB) Felt market?

What factors are driving Vanadium Redox Flow Battery (VRFB) Felt market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Vanadium Redox Flow Battery (VRFB) Felt market opportunities vary by end market size?

How does Vanadium Redox Flow Battery (VRFB) Felt break out by Type, by Application?

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