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Global Carbon-based Electrode Materials for Flow Batteries Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Carbon-based Electrode Materials for Flow Batteries market size was valued at US$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Electrode material is one of the key materials for flow batteries. Unlike lithium-ion batteries, in flow batteries, the energy storage active material is stored in the form of electrolyte in a storage tank outside the stack, and the electrode itself does not participate in electrochemical reactions, only providing a reaction site for the oxidation-reduction reactions of the positive and negative energy storage active materials. The electrode materials of flow batteries are mainly metal and carbon. At present, carbon based electrodes are the most commonly used electrode materials for flow batteries, mainly including graphite felt, carbon felt, graphite carbon paper, and graphite carbon cloth.

This report is a detailed and comprehensive analysis for global Carbon-based Electrode Materials for Flow Batteries market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with

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market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Carbon-based Electrode Materials for Flow Batteries market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2020-2031

Global Carbon-based Electrode Materials for Flow Batteries market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2020-2031

Global Carbon-based Electrode Materials for Flow Batteries market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2020-2031

Global Carbon-based Electrode Materials for Flow Batteries market shares of main players, shipments in revenue ($ Million), sales quantity (Tons), and ASP (US$/Ton), 2020-2025

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries
To assess the growth potential for Carbon-based Electrode Materials for Flow Batteries
To forecast future growth in each product and end-use market
To assess competitive factors affecting the marketplace

This report profiles key players in the global Carbon-based Electrode Materials for Flow Batteries market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Mige New Material, Shenyang FLYING Carbon Fiber, Liaoning Jingu Carbon Material, CGT Carbon GmbH, SGL Carbon, CeTech, Sichuan Junrui Carbon Fiber Materials, CM Carbon, JNTG, ZH Energy Storage, etc.
This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

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Carbon-based Electrode Materials for Flow Batteries market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Carbon Felt (CF)

Graphite Felt (GF)

Other

Market segment by Application

Vanadium Redox Flow Battery

Mixed Flow Battery

Major players covered

Mige New Material

Shenyang FLYING Carbon Fiber

Liaoning Jingu Carbon Material

CGT Carbon GmbH

SGL Carbon

CeTech

Sichuan Junrui Carbon Fiber Materials

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CM Carbon

JNTG

ZH Energy Storage

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)
Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)
Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)
South America (Brazil, Argentina, Colombia, and Rest of South America)
Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:
Chapter 1, to describe Carbon-based Electrode Materials for Flow Batteries product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top manufacturers of Carbon-based Electrode Materials for Flow Batteries, with price, sales quantity, revenue, and global market share of Carbon-based Electrode Materials for Flow Batteries from 2020 to 2025.
Chapter 3, the Carbon-based Electrode Materials for Flow Batteries competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.
Chapter 4, the Carbon-based Electrode Materials for Flow Batteries breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.
Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.
Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025.and Carbon-based Electrode Materials for Flow Batteries market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.
Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.
Chapter 13, the key raw materials and key suppliers, and industry chain of Carbon-based Electrode Materials for Flow Batteries.
Chapter 14 and 15, to describe Carbon-based Electrode Materials for Flow Batteries

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sales channel, distributors, customers, research findings and conclusion.

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Contents

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3 COMPETITIVE ENVIRONMENT: CARBON-BASED ELECTRODE MATERIALS FOR FLOW BATTERIES BY MANUFACTURER

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List Of Tables

LIST OF TABLES

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List Of Figures

LIST OF FIGURES

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