

Global Iron-based Flow Battery 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 Iron-based Flow Battery 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.

Iron-based liquid flow batteries are energy storage batteries that can convert electrical energy into chemical energy for storage, and then convert chemical energy into electrical energy for release when needed. Iron-based liquid flow batteries balance the load of the power grid by storing electrical energy, and release the stored electrical energy during peak energy demand periods, thereby providing a stable power supply for the power system. Therefore, iron-based liquid flow batteries play an important role in achieving a smooth power supply from renewable energy and improving the stability of the power grid. The price of an all-iron liquid flow battery will be 1/3 of that of an all-vanadium liquid flow battery, which can significantly reduce the cost of current liquid flow batteries. The all-iron liquid flow battery uses neutral ferrous chloride as the active material. It is low-cost, environmentally friendly, has high energy density, and has obvious resource advantages. It can meet the needs of large-scale, long-term energy storage at the future grid level and is beginning to stand out.

This report is a detailed and comprehensive analysis for global Iron-based Flow Battery 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 market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Iron-based Flow Battery market size and forecasts, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KW), 2020-2031

Global Iron-based Flow Battery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KW), 2020-2031

Global Iron-based Flow Battery market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (KWh), and average selling prices (US\$/KW), 2020-2031

Global Iron-based Flow Battery market shares of main players, shipments in revenue (\$ Million), sales quantity (KWh), and ASP (US\$/KW), 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 Iron-based Flow Battery

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 Iron-based Flow Battery 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 VoltStorage GmbH, Form Energy, Electric Fuel Energy (EFE), ESS Tech, Shanghai Electric, WeView, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Market Segmentation

Iron-based Flow Battery 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

Pure Iron Flow Battery

Iron Hybrid Flow Battery

Market segment by Application

Power Generation Side

Grid Side

User Side

Major players covered

VoltStorage GmbH

Form Energy

Electric Fuel Energy (EFE)

ESS Tech

Shanghai Electric

WeView

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 Iron-based Flow Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Iron-based Flow Battery, with price, sales quantity, revenue, and global market share of Iron-based Flow Battery from 2020 to 2025.

Chapter 3, the Iron-based Flow Battery competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Iron-based Flow Battery 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 Iron-based Flow Battery 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 Iron-based Flow Battery.

Chapter 14 and 15, to describe Iron-based Flow Battery sales channel, distributors, customers, research findings and conclusion.

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