

Global Redox Flow Battery Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G28A47E3727EN.html>

Date: September 2024

Pages: 95

Price: US\$ 3,480.00 (Single User License)

ID: G28A47E3727EN

Abstracts

A flow battery, or redox flow battery (after reduction–oxidation), is a type of rechargeable battery where recharge ability is provided by two chemical components dissolved in liquids contained within the system and separated by a membrane. Ion exchange (providing flow of electric current) occurs through the membrane while both liquids circulate in their own respective space. Cell voltage is chemically determined by the Nernst equation and ranges, in practical applications, from 1.0 to 2.2 volts. The performance of these devices is governed by the considerations of electrochemical engineering.

According to our (Global Info Research) latest study, the global Redox Flow Battery market size was valued at US\$ 319 million in 2023 and is forecast to a readjusted size of USD 642 million by 2030 with a CAGR of 10.6% during review period.

The industry's leading producers are Sumitomo Electric, Dalian Rongke Power and UniEnergy Technologies, which accounted for 21.51%, 21.19% and 11.28% of revenues respectively in 2019.

This report is a detailed and comprehensive analysis for global Redox 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 2024, are provided.

Key Features:

Global Redox Flow Battery market size and forecasts, in consumption value (\$ Million), sales quantity (GWh), and average selling prices (USD/KWh), 2019-2030

Global Redox Flow Battery market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (GWh), and average selling prices (USD/KWh), 2019-2030

Global Redox Flow Battery market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (GWh), and average selling prices (USD/KWh), 2019-2030

Global Redox Flow Battery market shares of main players, shipments in revenue (\$ Million), sales quantity (GWh), and ASP (USD/KWh), 2019-2024

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 Redox 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 Redox 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 Sumitomo Electric, Dalian Rongke Power, UniEnergy Technologies, Gildemeister, Primus Power, redTENERGY Storage, EnSync, etc.

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

Market Segmentation

Redox Flow Battery market is split by Type and by Application. For the period

2019-2030, 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

Vanadium Redox Flow Battery

Hybrid Flow Battery

Market segment by Application

Utility Facilities

Renewable Energy Integration

Others

Major players covered

Sumitomo Electric

Dalian Rongke Power

UniEnergy Technologies

Gildemeister

Primus Power

redTENERGY Storage

EnSync

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 Redox Flow Battery product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Redox Flow Battery, with price, sales quantity, revenue, and global market share of Redox Flow Battery from 2019 to 2024.

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

Chapter 4, the Redox Flow Battery breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2019 to 2030.

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 2019 to 2030.

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 2019 to 2024. and Redox Flow Battery market forecast, by regions, by Type, and by Application, with sales and revenue, from 2025 to 2030.

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 Redox Flow Battery.

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

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