

Global (North America, Europe, Asia-Pacific, South America, Middle East and Africa) Redox Flow Battery Market 2018, Forecast to 2023

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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.

SCOPE OF THE REPORT:

This report focuses on the Redox Flow Battery in global market, especially in North America, Europe and Asia-Pacific, South America, Middle East and Africa. This report categorizes the market based on manufacturers, regions, type and application.

North America and Asia-Pacific are the two largest countries with flow batteries Installation Capacity in the world, both the two countries take more than 80% of the world in 2017. Europe behind them, with about 15.09% market share.

There are more than seven main types of flow batteries in mass production or development stage in the market now. Vanadium Flow Battery is the main types, which can occupied about 70 percent revenue market share.

Currently, Sumitomo Electric, Dalian Rongke Power are the top two companies and lead in flow batteries with 29.33% and 19.29% revenue market share in 2017, respectively.

The worldwide market for Redox Flow Battery is expected to grow at a CAGR of roughly

14.1% over the next five years, will reach 280 million US\$ in 2023, from 130 million US\$ in 2017, according to a new GIR (Global Info Research) study.

Market Segment by Manufacturers, this report covers

Sumitomo Electric

Dalian Rongke Power

UniEnergy Technologies

Gildemeister

Primus Power

redTENERGY Storage

EnSync

Market Segment by Regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia and Italy)

Asia-Pacific (China, Japan, Korea, India and Southeast Asia)

South America (Brazil, Argentina, Colombia etc.)

Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria and South Africa)

Market Segment by Type, covers

Vanadium Redox Flow Battery

Hybrid Flow Battery

Market Segment by Applications, can be divided into

Utility Facilities

Renewable Energy Integration

Others

There are 15 Chapters to deeply display the global Redox Flow Battery market.

Chapter 1, to describe Redox Flow Battery Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Redox Flow Battery, with sales, revenue, and price of Redox Flow Battery, in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the global market by regions, with sales, revenue and market share of Redox Flow Battery, for each region, from 2013 to 2018;

Chapter 5, 6, 7, 8 and 9, to analyze the market by countries, by type, by application and by manufacturers, with sales, revenue and market share by key countries in these regions;

Chapter 10 and 11, to show the market by type and application, with sales market share and growth rate by type, application, from 2013 to 2018;

Chapter 12, Redox Flow Battery market forecast, by regions, type and application, with sales and revenue, from 2018 to 2023;

Chapter 13, 14 and 15, to describe Redox Flow Battery sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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