

# **Global (North America, Europe and Asia-Pacific, South America, Middle East and Africa) Ion Exchange Membrane of All-Vanadium Redox Flow Battery Market 2017 Forecast to 2022**

<https://marketpublishers.com/r/GC03F92DA3DEN.html>

Date: September 2017

Pages: 118

Price: US\$ 4,880.00 (Single User License)

ID: GC03F92DA3DEN

## **Abstracts**

The vanadium redox battery (VRB) (or Vanadium flow battery) is a type of rechargeable flow battery that employs vanadium ions in different oxidation states to store chemical potential energy. The vanadium redox battery exploits the ability of vanadium to exist in solution in four different oxidation states, and uses this property to make a battery that has just one electroactive element instead of two.

### **SCOPE OF THE REPORT:**

This report focuses on the Ion Exchange Membrane of All-Vanadium 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.

Market Segment by Manufacturers, this report covers

Chemours (DuPont)

FuMa-Tech

Golden Energy Fuel Cell

Dalian Institute of Chemical Physics

Market Segment by Regions, regional analysis covers

North America (USA, Canada and Mexico)

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

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

South America (Brazil, Argentina, Columbia etc.)

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

Market Segment by Type, covers

Full-fluorination Ion Exchange Membrane

Non-fluorination Ion Exchange Membrane

Others

Market Segment by Applications, can be divided into

Renewable Power Supply

Industrial Grid (Excluding Renewable Power) Adjustment and Management

There are 15 Chapters to deeply display the global Ion Exchange Membrane of All-Vanadium Redox Flow Battery market.

Chapter 1, to describe Ion Exchange Membrane of All-Vanadium Redox Flow Battery Introduction, product scope, market overview, market opportunities, market risk, market driving force;

Chapter 2, to analyze the top manufacturers of Ion Exchange Membrane of All-Vanadium Redox Flow Battery, with sales, revenue, and price of Ion Exchange Membrane of All-Vanadium 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 Ion Exchange Membrane of All-Vanadium Redox Flow Battery, for each region, from 2012 to 2017;

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 2012 to 2017;

Chapter 12, Ion Exchange Membrane of All-Vanadium Redox Flow Battery market forecast, by regions, type and application, with sales and revenue, from 2017 to 2022;

Chapter 13, 14 and 15, to describe Ion Exchange Membrane of All-Vanadium Redox Flow Battery sales channel, distributors, traders, dealers, Research Findings and Conclusion, appendix and data source

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