

Global Ion Exchange Membrane of All-Vanadium Redox Flow Battery Market Professional Survey Report 2018

<https://marketpublishers.com/r/G7486578524EN.html>

Date: July 2018

Pages: 103

Price: US\$ 3,500.00 (Single User License)

ID: G7486578524EN

Abstracts

This report studies the global Ion Exchange Membrane of All-Vanadium Redox Flow Battery market status and forecast, categorizes the global Ion Exchange Membrane of All-Vanadium Redox Flow Battery market size (value & volume) by manufacturers, type, application, and region. This report focuses on the top manufacturers in North America, Europe, Japan, China, India, Southeast Asia and other regions (Central & South America, and Middle East & Africa).

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.

As the schematic shown in Fig, a vanadium redox-flow battery has two chambers, a positive chamber and a negative chamber, separated by an ion-exchange membrane.

These two chambers are circulated with electrolytes containing active species of vanadium in different valence states, VO_2^+/VO_2^+ in the positive electrolyte and V^{2+}/V^{3+} in the negative electrolyte. During discharge process, VO_2^+ is reduced to VO_2 at the positive electrode and V^{2+} is oxidized to V^{3+} at the negative electrode, as shown in Equation(1) and (2). The reactions proceed in the opposite direction during charge process. The active species are normally dissolved in a strong acid, and the protons transport across the ion-exchange membrane to balance the charge.

In our report, we cover the ion exchange membrane of all-vanadium redox flow battery. Commercial ion-exchange membranes should have high proton conductivity, good selectivity, and especially low cost. At present, ion-exchange membrane prices are still too high. This affects the installed capacity of vanadium redox flow battery.

The global Ion Exchange Membrane of All-Vanadium Redox Flow Battery market is valued at 10 million US\$ in 2017 and will reach 39 million US\$ by the end of 2025, growing at a CAGR of 19.0% during 2018-2025.

The major manufacturers covered in this report

Chemours (DuPont)

FuMa-Tech

Golden Energy Fuel Cell

Dalian Institute of Chemical Physics

Geographically, this report studies the top producers and consumers, focuses on product capacity, production, value, consumption, market share and growth opportunity in these key regions, covering

North America

Europe

China

Japan

India

Southeast Asia

Other regions (Central & South America, Middle East & Africa)

We can also provide the customized separate regional or country-level reports, for the following regions:

North America

United States

Canada

Mexico

Asia-Pacific

China

India

Japan

South Korea

Australia

Indonesia

Singapore

Rest of Asia-Pacific

Europe

Germany

France

UK

Italy

Spain

Russia

Rest of Europe

Central & South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Saudi Arabia

Turkey

Rest of Middle East & Africa

On the basis of product, this report displays the production, revenue, price, market share and growth rate of each type, primarily split into

Full-fluorination Ion Exchange Membrane

Non-fluorination Ion Exchange Membrane

Others

By Application, the market can be split into

Renewable Power Supply

Industrial Grid (Excluding Renewable Power) Adjustment and Management

The study objectives of this report are:

To analyze and study the global Ion Exchange Membrane of All-Vanadium Redox Flow Battery capacity, production, value, consumption, status

(2013-2017) and forecast (2018-2025);

Focuses on the key Ion Exchange Membrane of All-Vanadium Redox Flow Battery manufacturers, to study the capacity, production, value, market share and development plans in future.

Focuses on the global key manufacturers, to define, describe and analyze the market competition landscape, SWOT analysis.

To define, describe and forecast the market by type, application and region.

To analyze the global and key regions market potential and advantage, opportunity and challenge, restraints and risks.

To identify significant trends and factors driving or inhibiting the market growth.

To analyze the opportunities in the market for stakeholders by identifying the high growth segments.

To strategically analyze each submarket with respect to individual growth trend and their contribution to the market.

To analyze competitive developments such as expansions, agreements, new product launches, and acquisitions in the market.

To strategically profile the key players and comprehensively analyze their growth strategies.

In this study, the years considered to estimate the market size of Ion Exchange Membrane of All-Vanadium Redox Flow Battery are as follows:

History Year: 2013-2017

Base Year: 2017

Estimated Year: 2018

Forecast Year 2018 to 2025

For the data information by region, company, type and application, 2017 is considered as the base year. Whenever data information was unavailable for the base year, the prior year has been considered.

Key Stakeholders

Ion Exchange Membrane of All-Vanadium Redox Flow Battery Manufacturers

Ion Exchange Membrane of All-Vanadium Redox Flow Battery

Distributors/Traders/Wholesalers

Ion Exchange Membrane of All-Vanadium Redox Flow Battery Subcomponent
Manufacturers

Industry Association

Downstream Vendors

Available Customizations

With the given market data, QYResearch offers customizations according to the company's specific needs. The following customization options are available for the report:

Regional and country-level analysis of the Ion Exchange Membrane of All-Vanadium Redox Flow Battery market, by end-use.

Detailed analysis and profiles of additional market players.

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