

# **2017-2025 World Ion Exchange Membrane for All-Vanadium Redox Flow Battery Market Research Report (by Product Type, End-User/Application and Regions/Countries)**

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## **Abstracts**

### **SUMMARY**

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.

This report includes market status and forecast of global and major regions, with introduction of vendors, regions, product types and end industries; and this report counts product types and end industries in global and major regions.

The report includes as follows:

The report provides current data, historical overview and future forecast.

The report includes an in-depth analysis of the Global market for Ion Exchange Membrane for All-Vanadium Redox Flow Battery , covering Global total and major region markets.

The data of 2017-2025 are included. All-inclusive market are given through data on sales, consumption, and prices (Global total and by major regions).

The report provides introduction of leading Global manufacturers.

Ion Exchange Membrane for All-Vanadium Redox Flow Battery market prospects to 2025 are included (in sales, consumption and price).

Market Segment as follows:

#### By Region / Countries

North America (U.S., Canada, Mexico)

Europe (Germany, U.K., France, Italy, Russia, Spain etc)

Asia-Pacific (China, India, Japan, Southeast Asia etc)

South America (Brazil, Argentina etc)

Middle East & Africa (Saudi Arabia, South Africa etc)

#### By Type

Full-fluorination Ion Exchange Membrane

Non-fluorination Ion Exchange Membrane

Others

#### By End-User / Application

Renewable Power Supply

Industrial Grid (Excluding Renewable Power) Adjustment and Management

#### By Company

FuMa-Tech

Chemours (DuPont)

Golden Energy Fuel Cell

Dalian Institute of Chemical Physics

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