

# Global Ion Exchange Membrane for All-Vanadium Redox Flow Battery Market Data Survey Report 2025

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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.

The main contents of the report including:

Global market size and forecast

Regional market size, production data and export & import

Key manufacturers (manufacturing sites, capacity and production, product specifications etc.)

Average market price by SUK

Major applications

Key manufacturers are included based on manufacturing sites, capacity and production, product specifications etc.:

FuMa-Tech

Chemours (DuPont)

Golden Energy Fuel Cell

Dalian Institute of Chemical Physics

Major applications  
as follows:

Renewable Power Supply

Industrial Grid (Excluding Renewable Power) Adjustment and Management

Regional market size, production data and export & import:

Asia-Pacific

North America

Europe

South America

Middle East & Africa

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