

All-Vanadium Redox Flow Batteries Market Size study, by Type (Graphene Electrodes, Carbon Felt Electrodes), by End User (Photovoltaic Industry, Wind Power Industry, Others) and Regional Forecasts 2018-2025

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Abstracts

All-Vanadium Redox Flow Batteries Market to reach USD XXX billion by 2025.

All-Vanadium Redox Flow Batteries Market valued approximately USD XXX billion in 2017 is anticipated to grow with a healthy growth rate of more than XX% over the forecast period 2018-2025. Growing demand for technologically advanced batteries along with escalating utility for grid energy storage and power plants are the major factors driving the growth in the Global All-Vanadium Redox Flow Batteries Market. However, high cost associated with batteries hampers the market growth.

The All-Vanadium Redox Flow battery is one of the types of rechargeable flow battery in which vanadium ions are employed in different oxidation states to precisely store chemical potential energy. The vanadium has ability to exist in the solution in four diverse oxidation states. The vanadium redox flow batteries exploit this ability of vanadium & further utilize this property to produce a battery which contains only one electro active element instead of two. Vanadium redox flow battery has several other features such as long-life cycle, high-efficiency, flexible design and better safety, therefore vanadium redox flow battery products are being used vastly in applications where large-scale energy storage is required. Due to their large size, these batteries are currently used in electrical grids and power plants. These batteries are capable of operating even at 0% charge compared to lithium-ion batteries which operate between 20%-100%, and that makes it superior and ideal for energy storage applications in solar and wind power generation farms.

The regional analysis of All-Vanadium Redox Flow Batteries market is considered for the key regions such as Asia Pacific, North America, Europe, Latin America and Rest of the World. In region such as Asia-Pacific, Middle-East and Africa, rise in usage of passenger vehicles set the growth in All-Vanadium Redox Flow Batteries market over the forecasted period 2018-2025. Asia-Pacific is estimated to hold a prominent share of the All-Vanadium Redox Flow Batteries market. Developing countries, such as India and China, are significant players boosting the demand for the All-Vanadium Redox Flow Batteries. Europe, North America and the Middle East and Africa are continuously witnessing infrastructural growth which fueling the demand of All-Vanadium Redox Flow Batteries over the coming years. Asia Pacific region is contributing towards the growth of global All-Vanadium Redox Flow Batteries and anticipated to exhibit higher growth rate / CAGR over the forecast period 2018-2025.

The leading Market players mainly include-

Dalian Rongke Power Co Ltd

Sumitomo Electric Industries

Vinox Energy Corporation

RedT Energy Plc

ESS Inc

H2 Inc

The objective of the study is to define market sizes of different segments & countries in recent years and to forecast the values to the coming eight years. The report is designed to incorporate both qualitative and quantitative aspects of the industry within each of the regions and countries involved in the study. Furthermore, the report also caters the detailed information about the crucial aspects such as driving factors & challenges which will define the future growth of the market. Additionally, the report shall also incorporate available opportunities in micro markets for stakeholders to invest along with the detailed analysis of competitive landscape and product offerings of key players. The detailed segments and sub-segment of the market are explained below:

By Type:

Graphene Electrodes

Carbon Felt Electrodes

By End User:

Photovoltaic Industry

Wind Power Industry

Others

By Regions:

North America

U.S.

Canada

Europe

UK

Germany

Asia Pacific

China

India

Japan

Latin America

Brazil

Mexico

Rest of the World

Furthermore, years considered for the study are as follows:

Historical year – 2015, 2016

Base year – 2017

Forecast period – 2018 to 2025

Target Audience of the All-Vanadium Redox Flow Batteries in Market Study:

Key Consulting Companies & Advisors

Large, medium-sized, and small enterprises

Venture capitalists

Value-Added Resellers (VARs)

Third-party knowledge providers

Investment bankers

Investors

Contents

CHAPTER 1. EXECUTIVE SUMMARY

- 1.1. Market Snapshot
- 1.2. Key Trends
- 1.3. Global & Segmental Market Estimates & Forecasts, 2015-2025 (USD Billion)
 - 1.3.1. All-Vanadium Redox Flow Batteries, by Type, 2015-2025 (USD Billion)
 - 1.3.2. All-Vanadium Redox Flow Batteries, by End User, 2015-2025 (USD Billion)
 - 1.3.3. All-Vanadium Redox Flow Batteries, by Region, 2015-2025 (USD Billion)
- 1.4. Estimation Methodology
- 1.5. Research Assumption

CHAPTER 2. ALL-VANADIUM REDOX FLOW BATTERIES MARKET DEFINITION AND SCOPE

- 2.1. Objective of the Study
- 2.2. Market Definition & Scope
 - 2.2.1. Industry Evolution
 - 2.2.2. Scope of the Study
- 2.3. Years Considered for the Study
- 2.4. Currency Conversion Rates

CHAPTER 3. ALL-VANADIUM REDOX FLOW BATTERIES MARKET DYNAMICS

- 3.1. See Saw Analysis
 - 3.1.1. Market Drivers
 - 3.1.2. Market Challenges
 - 3.1.3. Market Opportunities

CHAPTER 4. ALL-VANADIUM REDOX FLOW BATTERIES MARKET INDUSTRY ANALYSIS

- 4.1. Porter's 5 Force Model
 - 4.1.1. Bargaining Power of Buyers
 - 4.1.2. Bargaining Power of Suppliers
 - 4.1.3. Threat of New Entrants
 - 4.1.4. Threat of Substitutes
 - 4.1.5. Competitive Rivalry

- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.2. PEST Analysis
 - 4.2.1. Political Scenario
 - 4.2.2. Economic Scenario
 - 4.2.3. Social Scenario
 - 4.2.4. Technological Scenario
- 4.3. Value Chain Analysis
 - 4.3.1. Supplier
 - 4.3.2. Manufacturers/Service Provider
 - 4.3.3. Distributors
 - 4.3.4. End-Users
- 4.4. Key Buying Criteria
- 4.5. Regulatory Framework
- 4.6. Cost Structure Analysis
 - 4.6.1. Raw Material Cost Analysis
 - 4.6.2. Manufacturing Cost Analysis
 - 4.6.3. Labour Cost Analysis
- 4.7. Investment Vs Adoption Scenario
- 4.8. Analyst Recommendation & Conclusion

CHAPTER 5. ALL-VANADIUM REDOX FLOW BATTERIES, BY TYPE

- 5.1. Market Snapshot
- 5.2. Market Performance - Potential Model
- 5.3. Key Market Players
- 5.4. All-Vanadium Redox Flow Batteries, Sub Segment Analysis
 - 5.4.1. Graphene Electrodes
 - 5.4.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 5.4.1.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 5.4.2. Carbon Felt Electrodes
 - 5.4.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 5.4.2.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

CHAPTER 6. ALL-VANADIUM REDOX FLOW BATTERIES, BY END USER

- 6.1. Market Snapshot
- 6.2. Market Performance - Potential Model
- 6.3. Key Market Players
- 6.4. All-Vanadium Redox Flow Batteries, Sub Segment Analysis

6.4.1. Photovoltaic Industry

6.4.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)

6.4.1.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

6.4.2. Wind Power Industry

6.4.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)

6.4.2.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

6.4.3. Others

6.4.3.1. Market estimates & forecasts, 2015-2025 (USD Billion)

6.4.3.2. Regional breakdown estimates & forecasts, 2015-2025 (USD Billion)

CHAPTER 7. ALL-VANADIUM REDOX FLOW BATTERIES, BY REGIONAL ANALYSIS

7.1. All-Vanadium Redox Flow Batteries, Regional Market Snapshot (2015-2025)

7.2. North America All-Vanadium Redox Flow Batteries Market Snapshot

7.2.1. U.S.

7.2.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)

7.2.1.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.2.1.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.2.2. Canada

7.2.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)

7.2.2.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.2.2.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.3. Europe All-Vanadium Redox Flow Batteries Market Snapshot

7.3.1. U.K.

7.3.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)

7.3.1.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.3.1.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.3.2. Germany

7.3.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)

7.3.2.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.3.2.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.3.3. France

7.3.3.1. Market estimates & forecasts, 2015-2025 (USD Billion)

7.3.3.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.3.3.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)

7.3.4. Rest of Europe

7.3.4.1. Market estimates & forecasts, 2015-2025 (USD Billion)

7.3.4.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)

- 7.3.4.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)
- 7.4. Asia All-Vanadium Redox Flow Batteries Market Snapshot
 - 7.4.1. China
 - 7.4.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 7.4.1.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 7.4.1.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 7.4.2. India
 - 7.4.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 7.4.2.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 7.4.2.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 7.4.3. Japan
 - 7.4.3.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 7.4.3.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 7.4.3.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 7.4.4. Rest of Asia Pacific
 - 7.4.4.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 7.4.4.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 7.4.4.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)
- 7.5. Latin America All-Vanadium Redox Flow Batteries Market Snapshot
 - 7.5.1. Brazil
 - 7.5.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 7.5.1.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 7.5.1.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 7.5.2. Mexico
 - 7.5.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 7.5.2.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 7.5.2.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)
- 7.6. Rest of The World
 - 7.6.1. South America
 - 7.6.1.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 7.6.1.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 7.6.1.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 7.6.2. Middle East and Africa
 - 7.6.2.1. Market estimates & forecasts, 2015-2025 (USD Billion)
 - 7.6.2.2. Type breakdown estimates & forecasts, 2015-2025 (USD Billion)
 - 7.6.2.3. End User breakdown estimates & forecasts, 2015-2025 (USD Billion)

CHAPTER 8. COMPETITIVE INTELLIGENCE

- 8.1. Company Market Share (Subject to Data Availability)
- 8.2. Top Market Strategies
- 8.3. Company Profiles
 - 8.3.1. Dalian Rongke Power Co Ltd
 - 8.3.1.1. Overview
 - 8.3.1.2. Financial (Subject to Data Availability)
 - 8.3.1.3. Product Summary
 - 8.3.1.4. Recent Developments
 - 8.3.2. Sumitomo Electric Industries
 - 8.3.3. Vinox Energy Corporation
 - 8.3.4. RedT Energy Plc
 - 8.3.5. ESS Inc
 - 8.3.6. H2 Inc

CHAPTER 9. RESEARCH PROCESS

- 9.1. Research Process
 - 9.1.1. Data Mining
 - 9.1.2. Analysis
 - 9.1.3. Market Estimation
 - 9.1.4. Validation
 - 9.1.5. Publishing
 - 9.1.6. Research Assumption

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