

Global Vanadium Redox Battery (VRB) 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 electro active element instead of two. For several reasons, including their relatively bulky size, most vanadium batteries are currently used for grid energy storage, such as being attached to power plants or electrical grids.

The global Vanadium Redox Battery (VRB) market will reach Volume Million USD in 2018 with CAGR xx% 2018-2025. 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.)

Major Application

Major Type

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

Sumitomo Electric Industries

Rongke Power

UniEnergy Technologies

redT Energy

Vionx Energy

Big Power

Big Power

Golden Energy Fuel Cell

H2, Inc.

Major applications as follows:

Large-Scale Energy Storage

Uninterruptible Power Supply

Others

Major Type as follows:

Carbon Paper Electrode

Graphite Felt Electrode

Regional market size, production data and Trade:

Asia-Pacific

North America

Europe

South America

Middle East & Africa

Contents

1 GLOBAL MARKET OVERVIEW

- 1.1 Scope of Statistics
 - 1.1.1 Scope of Products
 - 1.1.2 Scope of Manufacturers
 - 1.1.3 Scope of Application
 - 1.1.5 Scope of Regions/Countries
- 1.2 Global Market Size

2 REGIONAL MARKET

- 2.1 Regional Production
- 2.2 Regional Demand
- 2.3 Regional Trade

3 KEY MANUFACTURERS

- 3.1 Sumitomo Electric Industries
 - 3.1.2 Company Information
 - 3.1.2 Product Specifications
 - 3.1.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 3.2 Rongke Power
 - 3.2.1 Company Information
 - 3.2.2 Product Specifications
 - 3.2.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 3.3 UniEnergy Technologies
 - 3.3.1 Company Information
 - 3.3.2 Product Specifications
 - 3.3.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 3.4 redT Energy
 - 3.4.1 Company Information
 - 3.4.2 Product Specifications
 - 3.4.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)
- 3.5 Vionx Energy
 - 3.5.1 Company Information
 - 3.5.2 Product Specifications
 - 3.5.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

3.6 Big Power

3.6.1 Company Information

3.6.2 Product Specifications

3.6.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

3.7 Big Power

3.7.1 Company Information

3.7.2 Product Specifications

3.7.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

3.8 Golden Energy Fuel Cell

3.8.1 Company Information

3.8.2 Product Specifications

3.8.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

3.9 H2, Inc.

3.9.1 Company Information

3.9.2 Product Specifications

3.9.3 Business Data (Capacity, Sales Revenue, Volume, Price, Cost and Margin)

4 MAJOR APPLICATION

4.1 Large-Scale Energy Storage

4.1.1 Overview

4.1.2 Large-Scale Energy Storage Market Size and Forecast

4.2 Uninterruptible Power Supply

4.2.1 Overview

4.2.2 Uninterruptible Power Supply Market Size and Forecast

4.3 Others

4.3.1 Overview

4.3.2 Others Market Size and Forecast

5 MARKET BY TYPE

5.1 Carbon Paper Electrode

5.1.1 Overview

5.1.2 Carbon Paper Electrode Market Size and Forecast

5.2 Graphite Felt Electrode

5.2.1 Overview

5.2.2 Graphite Felt Electrode Market Size and Forecast

6 CONCLUSION

List Of Tables

LIST OF TABLES

- Tab Regional Production 2011-2017 (Million USD)
- Tab Regional Production 2011-2017 (Volume)
- Tab Regional Demand and CAGR 2011-2017 (Million USD)
- Tab Regional Demand and CAGR 2011-2017 (Volume)
- Tab Regional Demand Forecast and CAGR 2018-2025 (Million USD)
- Tab Regional Demand Forecast and CAGR 2018-2025 (Volume)
- Tab Sales Revenue, Volume, Price, Cost and Margin of Sumitomo Electric Industries
- Tab Sales Revenue, Volume, Price, Cost and Margin of Rongke Power
- Tab Sales Revenue, Volume, Price, Cost and Margin of UniEnergy Technologies
- Tab Sales Revenue, Volume, Price, Cost and Margin of redT Energy
- Tab Sales Revenue, Volume, Price, Cost and Margin of Vionx Energy
- Tab Sales Revenue, Volume, Price, Cost and Margin of Big Power
- Tab Sales Revenue, Volume, Price, Cost and Margin of Big Power
- Tab Sales Revenue, Volume, Price, Cost and Margin of Golden Energy Fuel Cell
- Tab Sales Revenue, Volume, Price, Cost and Margin of H2, Inc.

List Of Figures

LIST OF FIGURES

Fig Global Vanadium Redox Battery (VRB) Market Size and CAGR 2011-2017 (Million USD)

Fig Global Vanadium Redox Battery (VRB) Market Size and CAGR 2011-2017 (Volume)

Fig Global Vanadium Redox Battery (VRB) Market Forecast and CAGR 2018-2025 (Million USD)

Fig Global Vanadium Redox Battery (VRB) Market Forecast and CAGR 2018-2025 (Volume)

Fig Large-Scale Energy Storage Market Size and CAGR 2011-2017 (Million USD)

Fig Large-Scale Energy Storage Market Size and CAGR 2011-2017 (Volume)

Fig Large-Scale Energy Storage Market Forecast and CAGR 2018-2025 (Million USD)

Fig Large-Scale Energy Storage Market Forecast and CAGR 2018-2025 (Volume)

Fig Uninterruptible Power Supply Market Size and CAGR 2011-2017 (Million USD)

Fig Uninterruptible Power Supply Market Size and CAGR 2011-2017 (Volume)

Fig Uninterruptible Power Supply Market Forecast and CAGR 2018-2025 (Million USD)

Fig Uninterruptible Power Supply Market Forecast and CAGR 2018-2025 (Volume)

Fig Others Market Size and CAGR 2011-2017 (Million USD)

Fig Others Market Size and CAGR 2011-2017 (Volume)

Fig Others Market Forecast and CAGR 2018-2025 (Million USD)

Fig Others Market Forecast and CAGR 2018-2025 (Volume)

Fig Carbon Paper Electrode Market Size and CAGR 2011-2017 (Million USD)

Fig Carbon Paper Electrode Market Size and CAGR 2011-2017 (Volume)

Fig Carbon Paper Electrode Market Forecast and CAGR 2018-2025 (Million USD)

Fig Carbon Paper Electrode Market Forecast and CAGR 2018-2025 (Volume)

Fig Graphite Felt Electrode Market Size and CAGR 2011-2017 (Million USD)

Fig Graphite Felt Electrode Market Size and CAGR 2011-2017 (Volume)

Fig Graphite Felt Electrode Market Forecast and CAGR 2018-2025 (Million USD)

Fig Graphite Felt Electrode Market Forecast and CAGR 2018-2025 (Volume)

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