

Europe Vanadium Redox Battery (VRB) Market by Manufacturers, Countries, Type and Application, Forecast to 2022

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Abstracts

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.

Scope of the Report:

This report focuses on the Vanadium Redox Battery (VRB) in Europe market, especially in Germany, UK, France, Russia, and Italy. This report categorizes the market based on manufacturers, countries, type and application.

Market Segment by Manufacturers, this report covers

UniEnergy Technologies

Rongke Power

Sumitomo Electric Industries

Gildemeister

Vionxenergy

RedT

Big Power

Golden Energy Fuel Cell

H2, Inc.

Market Segment by Countries, covering

Germany

UK

France

Russia

Italy

Market Segment by Type, covers

Carbon Paper Electrode

Graphite Felt Electrode

Market Segment by Applications, can be divided into

Large-Scale Energy Storage

Uninterruptible Power Supply

Others

There are 17 Chapters to deeply display the Europe Vanadium Redox Battery (VRB) market.

Chapter 1, to describe Vanadium Redox Battery (VRB) Introduction, product type and application, market overview, market analysis by countries, market opportunities, market risk, market driving force;

Chapter 2, to analyze the manufacturers of Vanadium Redox Battery (VRB), with profile, main business, news, sales, price, revenue and market share in 2016 and 2017;

Chapter 3, to display the competitive situation among the top manufacturers in Europe, with sales, revenue and market share in 2016 and 2017;

Chapter 4, to show the Europe market by countries, covering Germany, UK, France, Italy and Russia, with sales, price, revenue and market share of Vanadium Redox Battery (VRB), for each country, from 2012 to 2017;

Chapter 5 and 6, to show the market by type and application, with sales, price, revenue, market share and growth rate by type and application, from 2012 to 2017;

Chapter 7, 8, 9, 10 and 11, to analyze the key countries by manufacturers, Type and Application, covering Germany, UK, France, Italy and Russia, with sales, revenue and market share by manufacturers, types and applications;

Chapter 12, Vanadium Redox Battery (VRB) market forecast, by countries, type and application, with sales, price, revenue and growth rate forecast, from 2017 to 2022;

Chapter 13, to analyze the manufacturing cost, key raw materials and manufacturing process etc.

Chapter 14, to analyze the industrial chain, sourcing strategy and downstream end users (buyers);

Chapter 15, to describe Vanadium Redox Battery (VRB) sales channel, distributors, traders, dealers etc.

Chapter 16 and 17, to describe Vanadium Redox Battery (VRB) Research Findings and Conclusion, Appendix, methodology and data source

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