

# Global Redox Flow Cell Market Analysis 2016-2020 and Forecast 2021-2026

https://marketpublishers.com/r/G1DF4B6B505EN.html

Date: March 2021

Pages: 85

Price: US\$ 2,980.00 (Single User License)

ID: G1DF4B6B505EN

## **Abstracts**

## **SNAPSHOT**

The global Redox Flow Cell market size is estimated at xxx million USD with a CAGR xx% from 2016-2020 and is expected to reach xxx Million USD in 2021 with a CAGR xx% from 2021 to 2026. The report begins from overview of Industry Chain structure, and describes industry environment, then analyses market size and forecast of Redox Flow Cell by product, region and application, in addition, this report introduces market competition situation among the vendors and company profile, besides, market price analysis and value chain features are covered in this report.

Product Type Coverage (Market Size & Forecast, Major Company of Product Type etc.):

RFB Chemistries: Iron/Chromium

RFB Chemistries: PSB Flow Batteries

RFB Chemistries: Vanadium/Bromins

RFB Chemistries: All Vanadium (VRFB)

Hybrid RFBs: Zinc/Bromine

Hybrid RFBs: Hydrogen/Bromine

Hybrid RFBs: All Iron



Company Coverage (Company Profile, Sales Revenue, Price, Gross Margin, Main Products etc.):
Brine4power
Thyssenkrupp
Vanadis
Sumitomo Electric Industries, Ltd
ITN Energy Systems
SCHMID Energy Systems
UniEnergy Technologies (UET)
Primus Power
ESS Inc
Application Coverage (Market Size & Forecast, Different Demand Market by Region, Main Consumer Profile etc.):
Residential
Commercial
Industrial
Region Coverage (Regional Production, Demand & Forecast by Countries etc.):
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.)



## **Contents**

#### 1 INDUSTRY OVERVIEW

1.1 Redox Flow Cell Industry

Figure Redox Flow Cell Industry Chain Structure

- 1.1.1 Overview
- 1.1.2 Development of Redox Flow Cell
- 1.2 Market Segment
  - 1.2.1 Upstream

Table Upstream Segment of Redox Flow Cell

1.2.2 Downstream

Table Application Segment of Redox Flow Cell

Table Global Redox Flow Cell Market 2016-2026, by Application, in USD Million

1.2.3 COVID-19 Impact

1.3 Cost Analysis

## 2 INDUSTRY ENVIRONMENT (PEST ANALYSIS)

- 2.1 Policy
- 2.2 Economics
- 2.3 Sociology
- 2.4 Technology

## 3 REDOX FLOW CELL MARKET BY TYPE

- 3.1 By Type
  - 3.1.1 RFB Chemistries: Iron/Chromium

Table Major Company List of RFB Chemistries: Iron/Chromium

3.1.2 RFB Chemistries: PSB Flow Batteries

Table Major Company List of RFB Chemistries: PSB Flow Batteries

3.1.3 RFB Chemistries: Vanadium/Bromins

Table Major Company List of RFB Chemistries: Vanadium/Bromins

3.1.4 RFB Chemistries: All Vanadium (VRFB)

Table Major Company List of RFB Chemistries: All Vanadium (VRFB)

3.1.5 Hybrid RFBs: Zinc/Bromine

Table Major Company List of Hybrid RFBs: Zinc/Bromine

3.1.6 Hybrid RFBs: Hydrogen/Bromine

Table Major Company List of Hybrid RFBs: Hydrogen/Bromine



3.1.7 Hybrid RFBs: All Iron

Table Major Company List of Hybrid RFBs: All Iron

3.2 Market Size

Table Global Redox Flow Cell Market 2016-2020, by Type, in USD Million

Figure Global Redox Flow Cell Market Growth 2016-2020, by Type, in USD Million

Table Global Redox Flow Cell Market 2016-2020, by Type, in Volume

Figure Global Redox Flow Cell Market Growth 2016-2020, by Type, in Volume

3.3 Market Forecast

Table Global Redox Flow Cell Market Forecast 2021-2026, by Type, in USD Million

Table Global Redox Flow Cell Market Forecast 2021-2026, by Type, in Volume

#### **4 MAJOR COMPANIES LIST**

- 4.1 Brine4power (Company Profile, Sales Data etc.)
  - 4.1.1 Brine4power Profile

Table Brine4power Overview List

- 4.1.2 Brine4power Products & Services
- 4.1.3 Brine4power Business Operation Conditions

Table Business Operation of Brine4power (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

- 4.2 Thyssenkrupp (Company Profile, Sales Data etc.)
  - 4.2.1 Thyssenkrupp Profile

Table Thyssenkrupp Overview List

- 4.2.2 Thyssenkrupp Products & Services
- 4.2.3 Thyssenkrupp Business Operation Conditions

Table Business Operation of Thyssenkrupp (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

- 4.3 Vanadis (Company Profile, Sales Data etc.)
  - 4.3.1 Vanadis Profile

**Table Vanadis Overview List** 

- 4.3.2 Vanadis Products & Services
- 4.3.3 Vanadis Business Operation Conditions

Table Business Operation of Vanadis (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

- 4.4 Sumitomo Electric Industries, Ltd (Company Profile, Sales Data etc.)
  - 4.4.1 Sumitomo Electric Industries, Ltd Profile

Table Sumitomo Electric Industries, Ltd Overview List

- 4.4.2 Sumitomo Electric Industries, Ltd Products & Services
- 4.4.3 Sumitomo Electric Industries, Ltd Business Operation Conditions



Table Business Operation of Sumitomo Electric Industries, Ltd (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

4.5 ITN Energy Systems (Company Profile, Sales Data etc.)

4.5.1 ITN Energy Systems Profile

Table ITN Energy Systems Overview List

4.5.2 ITN Energy Systems Products & Services

4.5.3 ITN Energy Systems Business Operation Conditions

Table Business Operation of ITN Energy Systems (Sales Revenue, Sales Volume,

Price, Cost, Gross Margin)

4.6 SCHMID Energy Systems (Company Profile, Sales Data etc.)

4.6.1 SCHMID Energy Systems Profile

Table SCHMID Energy Systems Overview List

4.6.2 SCHMID Energy Systems Products & Services

4.6.3 SCHMID Energy Systems Business Operation Conditions

Table Business Operation of SCHMID Energy Systems (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

4.7 UniEnergy Technologies (UET) (Company Profile, Sales Data etc.)

4.7.1 UniEnergy Technologies (UET) Profile

Table UniEnergy Technologies (UET) Overview List

4.7.2 UniEnergy Technologies (UET) Products & Services

4.7.3 UniEnergy Technologies (UET) Business Operation Conditions

Table Business Operation of UniEnergy Technologies (UET) (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

4.8 Primus Power (Company Profile, Sales Data etc.)

4.8.1 Primus Power Profile

Table Primus Power Overview List

4.8.2 Primus Power Products & Services

4.8.3 Primus Power Business Operation Conditions

Table Business Operation of Primus Power (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

4.9 ESS Inc (Company Profile, Sales Data etc.)

4.9.1 ESS Inc Profile

Table ESS Inc Overview List

4.9.2 ESS Inc Products & Services

4.9.3 ESS Inc Business Operation Conditions

Table Business Operation of ESS Inc (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)

#### **5 MARKET COMPETITION**



## 5.1 Company Competition

Table Global Redox Flow Cell Sales Revenue 2016-2020, by Company, in USD Million Table Global Redox Flow Cell Sales Revenue Share 2016-2020, by Company, in USD Million

Figure Global Redox Flow Cell Sales Revenue Share in 2020, by Company, in USD Million

Table Global Redox Flow Cell Sales Volume 2016-2020, by Company, in Volume Table Global Redox Flow Cell Sales Volume Share 2016-2020, by Company, in Volume Figure Global Redox Flow Cell Sales Volume Share in 2020, by Company, in Volume 5.2 Regional Market by Company

Figure North America Redox Flow Cell Market Concentration, in 2020

Figure Europe Redox Flow Cell Market Market Concentration, in 2020

Figure Asia-Pacific Redox Flow Cell MMarket Concentration, in 2020

Figure South America Redox Flow Cell Market Concentration, in 2020

Figure Middle East & Africa Redox Flow Cell Market Concentration, in 2020

#### **6 DEMAND BY END MARKET**

## 6.1 Demand Situation

6.1.1 Demand in Residential

Figure Redox Flow Cell Demand in Residential, 2016-2020, in USD Million

Figure Redox Flow Cell Demand in Residential, 2016-2020, in Volume

6.1.2 Demand in Commercial

Figure Redox Flow Cell Demand in Commercial, 2016-2020, in USD Million

Figure Redox Flow Cell Demand in Commercial, 2016-2020, in Volume

6.1.3 Demand in Industrial

Figure Redox Flow Cell Demand in Industrial, 2016-2020, in USD Million

Figure Redox Flow Cell Demand in Industrial, 2016-2020, in Volume

6.2 Regional Demand Comparison

Table Regional Demand Comparison List

Table Major Application in Different Regions

6.3 Demand Forecast

Table Redox Flow Cell Demand Forecast 2021-2026, by Application, in USD Million

Figure Redox Flow Cell Market Growth 2021-2026, by Application, in USD Million

Figure Redox Flow Cell Market Share in 2026, by Application, in USD Million

Table Redox Flow Cell Demand Forecast 2021-2026, by Application, in Volume

Table Redox Flow Cell Market Growth 2021-2026, by Application, in Volume

Table Redox Flow Cell Market Share in 2026, by Application, in Volume



## 6.4 Impact of the COVID-19 on the Demand

#### **7 REGION OPERATION**

7.1 Regional Production

Table Redox Flow Cell Production 2016-2020, by Region, in USD Million

Table Redox Flow Cell Production 2016-2020, by Region, in Volume

7.2 Regional Market

Table Global Redox Flow Cell Market 2016-2020, by Region, in USD Million

Table Global Redox Flow Cell Market Share 2016-2020, by Region, in USD Million

Table Global Redox Flow Cell Market 2016-2020, by Region, in Volume

Table Global Redox Flow Cell Market Share 2016-2020, by Region, in Volume

7.3 by Region

7.3.1 North America

**7.3.1.1 Overview** 

Figure North America Redox Flow Cell Market Size and Growth 2016-2020, in USD Million

Figure North America Redox Flow Cell Market Size and Growth 2016-2020, in Volume 7.3.1.2 by Country (U.S., Canada, Mexico)

Table North America Redox Flow Cell Market Size 2016-2020, by Country, in USD Million

Table North America Redox Flow Cell Market Size 2016-2020, by Country, in Volume 7.3.2 Europe

7.3.2.1 Overview

Figure Europe Redox Flow Cell Market Size and Growth 2016-2020, in USD Million Figure Europe Redox Flow Cell Market Size and Growth 2016-2020, in Volume 7.3.2.2 by Country (Germany, U.K., France, Italy, Russia, Spain etc.)

Table Europe Redox Flow Cell Market Size 2016-2020, by Country, in USD Million Table Europe Redox Flow Cell Market Size 2016-2020, by Country, in Volume 7.3.3 Asia-Pacific

7.3.3.1 Overview

Figure Asia-Pacific Redox Flow Cell Market Size and Growth 2016-2020, in USD Million Figure Asia-Pacific Redox Flow Cell Market Size and Growth 2016-2020, in Volume 7.3.3.2 by Country (China, India, Japan, Southeast Asia etc.)

Table Asia-Pacific Redox Flow Cell Market Size 2016-2020, by Country, in USD Million Table Asia-Pacific Redox Flow Cell Market Size 2016-2020, by Country, in Volume 7.3.4 South America

7.3.4.1 Overview

Figure South America Redox Flow Cell Market Size and Growth 2016-2020, in USD



Million

Figure South America Redox Flow Cell Market Size and Growth 2016-2020, in Volume 7.3.4.2 by Country (Brazil, Argentina etc.)

Table South America Redox Flow Cell Market Size 2016-2020, by Country, in USD Million

Table South America Redox Flow Cell Market Size 2016-2020, by Country, in Volume 7.3.5 Middle East & Africa

**7.3.5.1** Overview

Figure Middle East & Africa Redox Flow Cell Market Size and Growth 2016-2020, in USD Million

Figure Middle East & Africa Redox Flow Cell Market Size and Growth 2016-2020, in Volume

7.3.5.2 by Country (Saudi Arabia, South Africa etc.)

Table Middle East & Africa Redox Flow Cell Market Size 2016-2020, by Country, in USD Million

Table Middle East & Africa Redox Flow Cell Market Size 2016-2020, by Country, in Volume

7.4 Regional Import & Export

7.5 Regional Forecast

Table Redox Flow Cell Market Forecast 2021-2026, by Region, in USD Million Table Redox Flow Cell Market Forecast 2021-2026, by Region, in Volume

#### **8 MARKETING & PRICE**

- 8.1 Price and Margin
  - 8.1.1 Price Trends
  - 8.1.2 Factors of Price Change

**Table Price Factors List** 

- 8.1.3 Manufacturers Gross Margin Analysis
- 8.2 Marketing Channel

Figure Marketing Channels Overview

#### 9 RESEARCH CONCLUSION



## **List Of Tables**

#### LIST OF TABLES

- 1. Table Upstream Segment of Redox Flow Cell
- 2. Table Application Segment of Redox Flow Cell
- 3. Table Global Redox Flow Cell Market 2016-2026, by Application, in USD Million
- 4. Table Major Company List of RFB Chemistries: PSB Flow Batteries
- 5. Table Major Company List of RFB Chemistries: Vanadium/Bromins
- 6. Table Major Company List of RFB Chemistries: All Vanadium (VRFB)
- 7. Table Major Company List of Hybrid RFBs: Zinc/Bromine
- 8. Table Major Company List of Hybrid RFBs: Hydrogen/Bromine
- 9. Table Major Company List of Hybrid RFBs: All Iron
- 10. Table Global Redox Flow Cell Market 2016-2020, by Type, in USD Million
- 11. Table Global Redox Flow Cell Market 2016-2020, by Type, in Volume
- 12. Table Global Redox Flow Cell Market Forecast 2021-2026, by Type, in USD Million
- 13. Table Global Redox Flow Cell Market Forecast 2021-2026, by Type, in Volume
- 14. Table Brine4power Overview List
- 15. Table Business Operation of Brine4power (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
- 16. Table Thyssenkrupp Overview List
- 17. Table Business Operation of Thyssenkrupp (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
- 18. Table Vanadis Overview List
- 19. Table Business Operation of Vanadis (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
- 20. Table Sumitomo Electric Industries, Ltd Overview List
- 21. Table Business Operation of Sumitomo Electric Industries, Ltd (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
- 22. Table ITN Energy Systems Overview List
- 23. Table Business Operation of ITN Energy Systems (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
- 24. Table SCHMID Energy Systems Overview List
- 25. Table Business Operation of SCHMID Energy Systems (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
- 26. Table UniEnergy Technologies (UET) Overview List
- 27. Table Business Operation of UniEnergy Technologies (UET) (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
- 28. Table Primus Power Overview List
- 29. Table Business Operation of Primus Power (Sales Revenue, Sales Volume, Price,



## Cost, Gross Margin)

- 30. Table ESS Inc Overview List
- 31. Table Business Operation of ESS Inc (Sales Revenue, Sales Volume, Price, Cost, Gross Margin)
- 32. Table Global Redox Flow Cell Sales Revenue 2016-2020, by Company, in USD Million
- 33. Table Global Redox Flow Cell Sales Revenue Share 2016-2020, by Company, in USD Million
- 34. Table Global Redox Flow Cell Sales Volume 2016-2020, by Company, in Volume
- 35. Table Global Redox Flow Cell Sales Volume Share 2016-2020, by Company, in Volume
- 36. Table Regional Demand Comparison List
- 37. Table Major Application in Different Regions
- 38. Table Redox Flow Cell Demand Forecast 2021-2026, by Application, in USD Million
- 39. Table Redox Flow Cell Demand Forecast 2021-2026, by Application, in Volume
- 40. Table Redox Flow Cell Market Growth 2021-2026, by Application, in Volume
- 41. Table Redox Flow Cell Market Share in 2026, by Application, in Volume
- 42. Table Redox Flow Cell Production 2016-2020, by Region, in USD Million
- 43. Table Redox Flow Cell Production 2016-2020, by Region, in Volume
- 44. Table Global Redox Flow Cell Market 2016-2020, by Region, in USD Million
- 45. Table Global Redox Flow Cell Market Share 2016-2020, by Region, in USD Million
- 46. Table Global Redox Flow Cell Market 2016-2020, by Region, in Volume
- 47. Table Global Redox Flow Cell Market Share 2016-2020, by Region, in Volume
- 48. Table North America Redox Flow Cell Market Size 2016-2020, by Country, in USD Million
- 49. Table North America Redox Flow Cell Market Size 2016-2020, by Country, in Volume
- 50. Table Europe Redox Flow Cell Market Size 2016-2020, by Country, in USD Million
- 51. Table Europe Redox Flow Cell Market Size 2016-2020, by Country, in Volume
- 52. Table Asia-Pacific Redox Flow Cell Market Size 2016-2020, by Country, in USD Million
- 53. Table Asia-Pacific Redox Flow Cell Market Size 2016-2020, by Country, in Volume
- 54. Table South America Redox Flow Cell Market Size 2016-2020, by Country, in USD Million
- 55. Table South America Redox Flow Cell Market Size 2016-2020, by Country, in Volume
- 56. Table Middle East & Africa Redox Flow Cell Market Size 2016-2020, by Country, in USD Million
- 57. Table Middle East & Africa Redox Flow Cell Market Size 2016-2020, by Country, in



## Volume

- 58. Table Redox Flow Cell Market Forecast 2021-2026, by Region, in USD Million
- 59. Table Redox Flow Cell Market Forecast 2021-2026, by Region, in Volume
- 60. Table Price Factors List



# **List Of Figures**

#### LIST OF FIGURES

- 1. Figure Redox Flow Cell Industry Chain Structure
- 2. Figure Global Redox Flow Cell Market Growth 2016-2020, by Type, in USD Million
- 3. Figure Global Redox Flow Cell Market Growth 2016-2020, by Type, in Volume
- 4. Figure Global Redox Flow Cell Sales Revenue Share in 2020, by Company, in USD Million
- 5. Figure Global Redox Flow Cell Sales Volume Share in 2020, by Company, in Volume
- 6. Figure North America Redox Flow Cell Market Concentration, in 2020
- 7. Figure Europe Redox Flow Cell Market Market Concentration, in 2020
- 8. Figure Asia-Pacific Redox Flow Cell MMarket Concentration, in 2020
- 9. Figure South America Redox Flow Cell Market Concentration, in 2020
- 10. Figure Middle East & Africa Redox Flow Cell Market Concentration, in 2020
- 11. Figure Redox Flow Cell Demand in Residential, 2016-2020, in USD Million
- 12. Figure Redox Flow Cell Demand in Residential, 2016-2020, in Volume
- 13. Figure Redox Flow Cell Demand in Commercial, 2016-2020, in USD Million
- 14. Figure Redox Flow Cell Demand in Commercial, 2016-2020, in Volume
- 15. Figure Redox Flow Cell Demand in Industrial, 2016-2020, in USD Million
- 16. Figure Redox Flow Cell Demand in Industrial, 2016-2020, in Volume
- 17. Figure Redox Flow Cell Market Growth 2021-2026, by Application, in USD Million
- 18. Figure Redox Flow Cell Market Share in 2026, by Application, in USD Million
- 19. Figure North America Redox Flow Cell Market Size and Growth 2016-2020, in USD Million
- 20. Figure North America Redox Flow Cell Market Size and Growth 2016-2020, in Volume
- 21. Figure Europe Redox Flow Cell Market Size and Growth 2016-2020, in USD Million
- 22. Figure Europe Redox Flow Cell Market Size and Growth 2016-2020, in Volume
- 23. Figure Asia-Pacific Redox Flow Cell Market Size and Growth 2016-2020, in USD Million
- 24. Figure Asia-Pacific Redox Flow Cell Market Size and Growth 2016-2020, in Volume
- 25. Figure South America Redox Flow Cell Market Size and Growth 2016-2020, in USD Million
- 26. Figure South America Redox Flow Cell Market Size and Growth 2016-2020, in Volume
- 27. Figure Middle East & Africa Redox Flow Cell Market Size and Growth 2016-2020, in USD Million
- 28. Figure Middle East & Africa Redox Flow Cell Market Size and Growth 2016-2020, in Volume



29. Figure Marketing Channels Overview



## I would like to order

Product name: Global Redox Flow Cell Market Analysis 2016-2020 and Forecast 2021-2026

Product link: https://marketpublishers.com/r/G1DF4B6B505EN.html

Price: US\$ 2,980.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer

Service:

info@marketpublishers.com

## **Payment**

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <a href="https://marketpublishers.com/r/G1DF4B6B505EN.html">https://marketpublishers.com/r/G1DF4B6B505EN.html</a>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:	
Last name:	
Email:	
Company:	
Address:	
City:	
Zip code:	
Country:	
Tel:	
Fax:	
Your message:	
	**All fields are required
	Custumer signature

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <a href="https://marketpublishers.com/docs/terms.html">https://marketpublishers.com/docs/terms.html</a>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970