

North America Flow Battery Market by Manufacturers, Countries, Type and Application, Forecast to 2023

<https://marketpublishers.com/r/N7F8064C573EN.html>

Date: March 2018

Pages: 106

Price: US\$ 4,480.00 (Single User License)

ID: N7F8064C573EN

Abstracts

A flow battery, or Flow Battery (after reduction–oxidation), is a type of rechargeable battery where recharge ability is provided by two chemical components dissolved in liquids contained within the system and separated by a membrane. Ion exchange (providing flow of electric current) occurs through the membrane while both liquids circulate in their own respective space. Cell voltage is chemically determined by the Nernst equation and ranges, in practical applications, from 1.0 to 2.2 volts. The performance of these devices is governed by the considerations of electrochemical engineering.

Scope of the Report:

This report focuses on the Flow Battery in North America market, especially in United States, Canada and Mexico. This report categorizes the market based on manufacturers, countries, type and application.

Market Segment by Manufacturers, this report covers

Sumitomo Electric

Dalian Rongke Power

Gildemeister

UniEnergy Technologies

Primus Power

redTENERGY Storage

EnSync

Market Segment by Countries, covering

Vanadium Flow Battery

Hybrid Flow Battery

Market Segment by Type, covers

Utility Facilities

Renewable Energy Integration

Others

Market Segment by Applications, can be divided into

Utility Facilities

Renewable Energy Integration

Others

There are 15 Chapters to deeply display the North America Flow Battery market.

Chapter 1, to describe Flow Battery 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 Flow Battery, 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, with profile, main business, news, sales, price, revenue and market share in 2016 and 2017;

Chapter 4, to show the North America market by countries, covering United States, Canada and Mexico, with sales, revenue and market share of Flow Battery, for each country, from 2013 to 2018;

Chapter 5 and 6, to show the market by type and application, with sales, price, revenue, market share and growth rate by type, application, from 2013 to 2018;

Chapter 7, 8 and 9, to analyze the segment market in United States, Canada and Mexico, by manufacturers, type and application, with sales, price, revenue and market share by manufacturers, types and applications;

Chapter 10, Flow Battery market forecast, by countries, type and application, with sales, price and revenue, from 2018 to 2023;

Chapter 11, to analyze the manufacturing cost, key raw materials and manufacturing process etc.

Chapter 12, to analyze the industrial chain, sourcing strategy and downstream end users (buyers);

Chapter 13, to describe sales channel, distributors, traders, dealers etc.

Chapter 14 and 15, to describe Flow Battery Research Findings and Conclusion, Appendix, methodology and data source

Contents

1 MARKET OVERVIEW

- 1.1 Flow Battery Introduction
- 1.2 Market Analysis by Type
 - 1.2.1 Vanadium Flow Battery
 - 1.2.2 Hybrid Flow Battery
- 1.3 Market Analysis by Applications
 - 1.3.1 Utility Facilities
 - 1.3.2 Renewable Energy Integration
 - 1.3.3 Others
- 1.4 Market Analysis by Countries
 - 1.4.1 United States Status and Prospect (2013-2023)
 - 1.4.2 Mexico Status and Prospect (2013-2023)
 - 1.4.3 Canada Status and Prospect (2013-2023)
- 1.5 Market Dynamics
 - 1.5.1 Market Opportunities
 - 1.5.2 Market Risk
 - 1.5.3 Market Driving Force

2 MANUFACTURERS PROFILES

- 2.1 Sumitomo Electric
 - 2.1.1 Business Overview
 - 2.1.2 Flow Battery Type and Applications
 - 2.1.2.1 Type
 - 2.1.2.2 Type
 - 2.1.3 Sumitomo Electric Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.2 Dalian Rongke Power
 - 2.2.1 Business Overview
 - 2.2.2 Flow Battery Type and Applications
 - 2.2.2.1 Type
 - 2.2.2.2 Type
 - 2.2.3 Dalian Rongke Power Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
- 2.3 Gildemeister
 - 2.3.1 Business Overview

2.3.2 Flow Battery Type and Applications

2.3.2.1 Type

2.3.2.2 Type

2.3.3 Gildemeister Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.4 UniEnergy Technologies

2.4.1 Business Overview

2.4.2 Flow Battery Type and Applications

2.4.2.1 Type

2.4.2.2 Type

2.4.3 UniEnergy Technologies Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.5 Primus Power

2.5.1 Business Overview

2.5.2 Flow Battery Type and Applications

2.5.2.1 Type

2.5.2.2 Type

2.5.3 Primus Power Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.6 redTENERGY Storage

2.6.1 Business Overview

2.6.2 Flow Battery Type and Applications

2.6.2.1 Type

2.6.2.2 Type

2.6.3 redTENERGY Storage Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

2.7 EnSync

2.7.1 Business Overview

2.7.2 Flow Battery Type and Applications

2.7.2.1 Type

2.7.2.2 Type

2.7.3 EnSync Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

3 NORTH AMERICA FLOW BATTERY MARKET COMPETITION, BY MANUFACTURER

3.1 North America Flow Battery Sales and Market Share by Manufacturer (2016-2017)

3.1.1 North America Flow Battery Sales by Manufacturer (2016-2017)

- 3.1.2 North America Flow Battery Sales Market Share by Manufacturer (2016-2017)
- 3.2 North America Flow Battery Revenue and Market Share by Manufacturer (2016-2017)
 - 3.2.1 North America Flow Battery Revenue by Manufacturer (2016-2017)
 - 3.2.2 North America Flow Battery Revenue Market Share by Manufacturer (2016-2017)
- 3.3 North America Flow Battery Price by Manufacturers (2016-2017)
- 3.4 Market Concentration Rate
 - 3.4.1 Top 3 Flow Battery Manufacturer Market Share (2016-2017)
 - 3.4.2 Top 5 Flow Battery Manufacturer Market Share (2016-2017)
- 3.5 Market Competition Trend

4 NORTH AMERICA FLOW BATTERY MARKET ANALYSIS BY COUNTRIES

- 4.1 North America Flow Battery Sales and Market Share by Countries (2013-2018)
 - 4.1.1 North America Flow Battery Sales by Countries (2013-2018)
 - 4.1.2 North America Flow Battery Sales Market Share by Countries (2013-2018)
- 4.2 North America Flow Battery Revenue (Value) and Market Share by Countries (2013-2018)
 - 4.2.1 North America Flow Battery Revenue by Countries (2013-2018)
 - 4.2.2 North America Flow Battery Revenue Market Share by Countries (2013-2018)

5 NORTH AMERICA MARKET SEGMENTATION FLOW BATTERY BY TYPE

- 5.1 North America Flow Battery Sales, Revenue and Market Share by Type (2013-2018)
 - 5.1.1 North America Flow Battery Sales and Market Share by Type (2013-2018)
 - 5.1.2 North America Flow Battery Revenue and Market Share by Type (2013-2018)
- 5.2 Type 1 Sales Growth Rate and Price
 - 5.2 Vanadium Flow Battery Sales Growth and Price
 - 5.2.1 North America Vanadium Flow Battery Sales Growth (2013-2018)
 - 5.2.2 North America Vanadium Flow Battery Price (2013-2018)
- 5.3 Hybrid Flow Battery Sales Growth and Price
 - 5.3.1 North America Hybrid Flow Battery Sales Growth (2013-2018)
 - 5.3.2 North America Hybrid Flow Battery Price (2013-2018)

6 NORTH AMERICA MARKET SEGMENTATION FLOW BATTERY BY APPLICATION

- 6.1 North America Flow Battery Sales Market Share by Application (2013-2018)
- 6.2 Utility Facilities Sales Growth (2013-2018)
- 6.3 Renewable Energy Integration Sales Growth (2013-2018)
- 6.4 Others Sales Growth (2013-2018)

7 UNITED STATES FLOW BATTERY SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS

- 7.1 United States Flow Battery Revenue, Sales and Growth Rate (2013-2018)
- 7.2 United States Flow Battery Sales and Market Share by Type
 - 7.2.1 United States Flow Battery Sales by Type (2013-2018)
 - 7.2.2 United States Flow Battery Sales Market Share by Type (2013-2018)
- 7.3 United States Flow Battery Sales and Market Share by Application
 - 7.3.1 United States Flow Battery Sales by Application (2013-2018)
 - 7.3.2 United States Flow Battery Sales Market Share by Application (2013-2018)
- 7.4 United States Flow Battery Sales, Revenue and Market Share by Manufacturer (2016-2017)
 - 7.4.1 United States Flow Battery Sales and Market Share by Manufacturer (2016-2017)
 - 7.4.2 United States Flow Battery Revenue and Market Share by Manufacturer (2016-2017)
- 7.5 United States Flow Battery Export and Import (2013-2018)

8 CANADA FLOW BATTERY SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS

- 8.1 Canada Flow Battery Revenue, Sales and Growth Rate (2013-2018)
- 8.2 Canada Flow Battery Sales and Market Share by Type
 - 8.2.1 Canada Flow Battery Sales by Type (2013-2018)
 - 8.2.2 Canada Flow Battery Sales Market Share by Type (2013-2018)
- 8.3 Canada Flow Battery Sales and Market Share by Application
 - 8.3.1 Canada Flow Battery Sales by Application (2013-2018)
 - 8.3.2 Canada Flow Battery Sales Market Share by Application (2013-2018)
- 8.4 Canada Flow Battery Sales, Revenue and Market Share by Manufacturer (2016-2017)
 - 8.4.1 Canada Flow Battery Sales and Market Share by Manufacturer (2016-2017)
 - 8.4.2 Canada Flow Battery Revenue and Market Share by Manufacturer (2016-2017)
- 8.5 Canada Flow Battery Export and Import (2013-2018)

9 MEXICO FLOW BATTERY SALES, REVENUE, BY TYPE, APPLICATION AND MANUFACTURERS

- 9.1 Mexico Flow Battery Revenue, Sales and Growth Rate (2013-2018)
- 9.2 Mexico Flow Battery Sales and Market Share by Type (2013-2018)
 - 9.2.1 Mexico Flow Battery Sales by Type (2013-2018)
 - 9.2.2 Mexico Flow Battery Sales Market Share by Type (2013-2018)
- 9.3 Mexico Flow Battery Sales and Market Share by Application (2013-2018)
 - 9.3.1 Mexico Flow Battery Sales by Application (2013-2018)
 - 9.3.2 Mexico Flow Battery Sales Market Share by Application (2013-2018)
- 9.4 Mexico Flow Battery Sales, Revenue and Market Share by Manufacturer (2016-2017)
 - 9.4.1 Mexico Flow Battery Sales and Market Share by Manufacturer (2016-2017)
 - 9.4.2 Mexico Flow Battery Revenue and Market Share by Manufacturer (2016-2017)
- 9.5 Mexico Flow Battery Export and Import (2013-2018)

10 FLOW BATTERY MARKET FORECAST (2018-2023)

- 10.1 North America Flow Battery Sales, Revenue and Growth Rate (2018-2023)
- 10.2 Flow Battery Market Forecast by Countries (2018-2023)
 - 10.2.1 North America Flow Battery Sales Forecast by Countries (2018-2023)
 - 10.2.2 United States Flow Battery Forecast (2018-2023)
 - 10.2.3 Canada Flow Battery Forecast (2018-2023)
 - 10.2.4 Mexico Flow Battery Forecast (2018-2023)
- 10.3 Flow Battery Market Forecast by Type (2018-2023)
 - 10.3.1 North America Flow Battery Sales Forecast by Type (2018-2023)
 - 10.3.2 North America Flow Battery Market Share Forecast by Type (2018-2023)
- 10.4 Flow Battery Market Forecast by Application (2018-2023)
 - 10.4.1 North America Flow Battery Sales Forecast by Application (2018-2023)
 - 10.4.2 North America Flow Battery Market Share Forecast by Application (2018-2023)

11 FLOW BATTERY MANUFACTURING COST ANALYSIS

- 11.1 Flow Battery Key Raw Materials Analysis
 - 11.1.1 Key Raw Materials
 - 11.1.2 Price Trend of Key Raw Materials
 - 11.1.3 Key Suppliers of Raw Materials
 - 11.1.4 Market Concentration Rate of Raw Materials
- 11.2 Proportion of Manufacturing Cost Structure

- 11.2.1 Raw Materials
- 11.2.2 Labor Cost
- 11.2.3 Manufacturing Expenses
- 11.3 Manufacturing Process Analysis of Flow Battery

12 INDUSTRIAL CHAIN, SOURCING STRATEGY AND DOWNSTREAM BUYERS

- 12.1 Flow Battery Industrial Chain Analysis
- 12.2 Upstream Raw Materials Sourcing
- 12.3 Raw Materials Sources of Flow Battery Major Manufacturers in 2017
- 12.4 Downstream Buyers

13 SALES CHANNEL, DISTRIBUTORS, TRADERS AND DEALERS

- 13.1 Sales Channel
 - 13.1.1 Direct Marketing
 - 13.1.2 Indirect Marketing
 - 13.1.3 Marketing Channel Future Trend
- 13.2 Distributors, Traders and Dealers

14 RESEARCH FINDINGS AND CONCLUSION

15 APPENDIX

- 15.1 Methodology
- 15.2 Data Source

List Of Tables

LIST OF TABLES AND FIGURES

Figure Flow Battery Picture

Table Product Specifications of Flow Battery

Figure North America Sales Market Share of Flow Battery by Types in 2017

Table Types of Flow Battery

Figure Vanadium Flow Battery Picture

Figure Hybrid Flow Battery Picture

Figure North America Flow Battery Sales Market Share by Applications in 2017

Table Applications of Flow Battery

Figure Utility Facilities Picture

Figure Renewable Energy Integration Picture

Figure Others Picture

Figure United States Flow Battery Revenue (Million USD) and Growth Rate (2013-2023)

Figure Mexico Flow Battery Revenue (Million USD) and Growth Rate (2013-2023)

Figure Canada Flow Battery Revenue (Million USD) and Growth Rate (2013-2023)

Table Sumitomo Electric Basic Information, Manufacturing Base and Competitors

Table Sumitomo Electric Flow Battery Type and Applications

Table Sumitomo Electric Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Dalian Rongke Power Basic Information, Manufacturing Base and Competitors

Table Dalian Rongke Power Flow Battery Type and Applications

Table Dalian Rongke Power Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Gildemeister Basic Information, Manufacturing Base and Competitors

Table Gildemeister Flow Battery Type and Applications

Table Gildemeister Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table UniEnergy Technologies Basic Information, Manufacturing Base and Competitors

Table UniEnergy Technologies Flow Battery Type and Applications

Table UniEnergy Technologies Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table Primus Power Basic Information, Manufacturing Base and Competitors

Table Primus Power Flow Battery Type and Applications

Table Primus Power Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)

Table redTENERGY Storage Basic Information, Manufacturing Base and Competitors

Table redTENERGY Storage Flow Battery Type and Applications
Table redTENERGY Storage Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
Table EnSync Basic Information, Manufacturing Base and Competitors
Table EnSync Flow Battery Type and Applications
Table EnSync Flow Battery Sales, Price, Revenue, Gross Margin and Market Share (2016-2017)
Table North America Flow Battery Sales by Manufacturer (2016-2017)
Table North America Flow Battery Sales Market Share by Manufacturer (2016-2017)
Figure North America Flow Battery Sales Market Share by Manufacturer in 2016
Figure North America Flow Battery Sales Market Share by Manufacturer in 2017
Table North America Flow Battery Revenue by Manufacturer (2016-2017)
Table North America Flow Battery Revenue Market Share by Manufacturer (2016-2017)
Figure North America Flow Battery Revenue Market Share by Manufacturer in 2016
Figure North America Flow Battery Revenue Market Share by Manufacturer in 2017
Table North America Flow Battery Price by Manufacturers (2016-2017)
Figure Top 3 Flow Battery Manufacturer Market Share in 2016
Figure Top 3 Flow Battery Manufacturer Market Share in 2017
Figure Top 5 Flow Battery Manufacturer Market Share in 2016
Figure Top 5 Flow Battery Manufacturer Market Share in 2017
Table North America Flow Battery Sales by Countries (2013-2018)
Figure North America Flow Battery Sales and Growth Rate (2013-2018)
Table North America Flow Battery Sales Market Share by Countries (2013-2018)
Figure North America 2013 Flow Battery Sales Market Share by Countries
Figure North America 2017 Flow Battery Sales Market Share by Countries
Table North America Flow Battery Revenue by Countries (2013-2018)
Figure North America Flow Battery Revenue and Growth Rate (2013-2018)
Table North America Flow Battery Revenue Market Share by Countries (2013-2018)
Figure North America 2013 Flow Battery Revenue Market Share by Countries
Figure North America 2017 Flow Battery Revenue Market Share by Countries
Table North America Flow Battery Sales by Type (2013-2018)
Table North America Flow Battery Sales Share by Type (2013-2018)
Table North America Flow Battery Revenue by Type (2013-2018)
Table North America Flow Battery Revenue Share by Type (2013-2018)
Figure North America Vanadium Flow Battery Sales Growth (2013-2018)
Figure North America Vanadium Flow Battery Price (2013-2018)
Figure North America Hybrid Flow Battery Sales Growth (2013-2018)
Figure North America Hybrid Flow Battery Price (2013-2018)
Table North America Flow Battery Sales by Application (2013-2018)

Table North America Flow Battery Sales Share by Application (2013-2018)
Figure North America Utility Facilities Sales Growth (2013-2018)
Figure North America Renewable Energy Integration Sales Growth (2013-2018)
Figure North America Others Sales Growth (2013-2018)
Figure United States Flow Battery Revenue and Growth Rate (2013-2018)
Figure United States Flow Battery Sales and Growth Rate (2013-2018)
Table United States Flow Battery Sales by Type (2013-2018)
Table United States Flow Battery Sales Market Share by Type (2013-2018)
Table United States Flow Battery Sales by Application (2013-2018)
Table United States Flow Battery Sales Market Share by Application (2013-2018)
Table United States Flow Battery Sales by Manufacturer (2016-2017)
Figure United States Flow Battery Sales Market Share by Manufacturer in 2016
Figure United States Flow Battery Sales Market Share by Manufacturer in 2017
Table United States Flow Battery Revenue by Manufacturer (2016-2017)
Figure United States Flow Battery Revenue Market Share by Manufacturer in 2016
Figure United States Flow Battery Revenue Market Share by Manufacturer in 2017
Table United States Flow Battery Export and Import (2013-2018)
Figure Canada Flow Battery Revenue and Growth Rate (2013-2018)
Figure Canada Flow Battery Sales and Growth Rate (2013-2018)
Table Canada Flow Battery Sales by Type (2013-2018)
Table Canada Flow Battery Sales Market Share by Type (2013-2018)
Table Canada Flow Battery Sales by Application (2013-2018)
Table Canada Flow Battery Sales Market Share by Application (2013-2018)
Table Canada Flow Battery Sales by Manufacturer (2016-2017)
Figure Canada Flow Battery Sales Market Share by Manufacturer in 2016
Figure Canada Flow Battery Sales Market Share by Manufacturer in 2017
Table Canada Flow Battery Revenue by Manufacturer (2016-2017)
Figure Canada Flow Battery Revenue Market Share by Manufacturer in 2016
Figure Canada Flow Battery Revenue Market Share by Manufacturer in 2017
Table Canada Flow Battery Export and Import (2013-2018)
Figure Mexico Flow Battery Revenue and Growth Rate (2013-2018)
Figure Mexico Flow Battery Sales and Growth Rate (2013-2018)
Table Mexico Flow Battery Sales by Type (2013-2018)
Table Mexico Flow Battery Sales Market Share by Type (2013-2018)
Table Mexico Flow Battery Sales by Application (2013-2018)
Table Mexico Flow Battery Sales Market Share by Application (2013-2018)
Table Mexico Flow Battery Sales by Manufacturer (2016-2017)
Figure Mexico Flow Battery Sales Market Share by Manufacturer in 2016
Figure Mexico Flow Battery Sales Market Share by Manufacturer in 2017

Table Mexico Flow Battery Revenue by Manufacturer (2016-2017)
Figure Mexico Flow Battery Revenue Market Share by Manufacturer in 2016
Figure Mexico Flow Battery Revenue Market Share by Manufacturer in 2017
Table Mexico Flow Battery Export and Import (2013-2018)
Figure North America Flow Battery Sales, Revenue and Growth Rate (2018-2023)
Table North America Flow Battery Sales Forecast by Countries (2018-2023)
Table North America Flow Battery Market Share Forecast by Countries (2018-2023)
Figure United States Flow Battery Sales Forecast (2018-2023)
Figure Canada Flow Battery Sales Forecast (2018-2023)
Figure Mexico Flow Battery Sales Forecast (2018-2023)
Table North America Flow Battery Sales Forecast by Type (2018-2023)
Table North America Flow Battery Market Share Forecast by Type (2018-2023)
Table North America Flow Battery Sales Forecast by Application (2018-2023)
Table North America Flow Battery Market Share Forecast by Application (2018-2023)
Table Sales Base and Market Concentration Rate of Raw Material
Figure Price Trend of Key Raw Materials
Table Key Suppliers of Raw Materials
Figure Manufacturing Cost Structure of Flow Battery
Figure Manufacturing Process Analysis of Flow Battery
Figure Flow Battery Industrial Chain Analysis
Table Raw Materials Sources of Flow Battery Major Manufacturers in 2017
Table Major Buyers of Flow Battery
Table Distributors/Traders/ Dealers List

I would like to order

Product name: North America Flow Battery Market by Manufacturers, Countries, Type and Application, Forecast to 2023

Product link: <https://marketpublishers.com/r/N7F8064C573EN.html>

Price: US\$ 4,480.00 (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 <https://marketpublishers.com/r/N7F8064C573EN.html>

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**

Customer signature _____

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

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

