

Flow Battery Market based on By Type (Hybrid, Redox), By Application (Utility, Automotive, Residential, Industrial, Energy Storage, Others), Regional Outlook– Global Forecast up to 2030

<https://marketpublishers.com/r/FD34E7564E91EN.html>

Date: April 2024

Pages: 115

Price: US\$ 4,500.00 (Single User License)

ID: FD34E7564E91EN

Abstracts

In order to estimate the current size of the flow battery market, the study covered four primary actions. Complete secondary research has been conducted in order to gather data regarding the parent, peer, and market markets. The following stage involved conducting primary research to confirm these conclusions, hypotheses, and sizing with industry experts throughout the value chain. There have been top-down and bottom-up methods used to estimate the size of the entire market. Subsequently, the market size of segments and subsegments was estimated by the application of market breakdown and data triangulation techniques. For the purpose of conducting a thorough technical and commercial analysis of the flow battery industry, information has been gathered from two sources: primary and secondary.

A number of specialists from the core and associated industries, as well as distributors, alliances, standards-setting bodies, preferred flow battery suppliers, and organizations certifying different facets of this industry's value chain, make up the majority of the primary sources.

To gather qualitative and quantitative data about the market, a variety of primary sources from the supply and demand sides were questioned during the primary research process. Chief Experience Officers (CXOs), Vice Presidents (VPs), Directors from business development, marketing, and product development/innovation teams, as well as related key executives from flow battery providers like Sumitomo Electric Industries, Ltd. (Japan), ViZn Energy Systems (US), Primus Power Solutions (US), ESS Inc. (US), and Redflow Limited (Australia), were among the primary sources from the

supply side. Other primary sources included research organizations, distributors, industry associations, and key opinion leaders. Following is the breakdown of primary respondents.

Websites for businesses, periodicals, trade publications, associations, and databases (Factiva and Bloomberg) are examples of secondary sources. Annual reports, press announcements, investor presentations, white papers, certified publications, writings by renowned writers, trade directories, databases, regulatory agencies, and trade associations are some examples of these secondary sources. Identification of the major players, their product lines, and most recent advancements are aided by secondary research. It also helps in determining the main forces, obstacles, chances, and difficulties affecting market expansion.

The segmentation coverage of the study is provided below.

Flow Battery Market based on Type:

Hybrid

Redox

Flow Battery Market based on Application:

Utility

Automotive

Residential

Industrial

Energy Storage

Others

Flow Battery Market based on Geography:

North America

US

Canada

Europe

Germany

UK

France

Italy

Spain

Rest of Europe (RoE)

Asia Pacific (APAC)

China

Japan

India

Australia

South Korea

Rest of Asia Pacific (RoAPAC)

Latin America (LATAM)

Brazil

Argentina

Rest of South America

Middle East and Africa (MEA)

UAE

Turkey

Saudi Arabia

South Africa

Rest of Middle East & Africa

The market is examined for hybrid flow batteries, membrane-less flow batteries, and redox flow batteries based on type. In 2022, the Hybrid Flow Battery held the highest market share of 50.99%, with Redox Flow Battery following closely after.

Market research is conducted on vanadium and zinc-bromine based on material. Vanadium was the second-largest market share in 2022, with zinc-bromine accounting for 39.02%.

The market is examined across customer-owned, third-party-owned, and utility-owned entities based on ownership. In 2022, Utility Owned held the highest market share of 51.80%, with Third-party Owned following closely behind.

The market is examined on a compact and large scale based on storage. In 2022, the Large Scale held the most market share of 60.50%, with Compact coming in second.

Applications across Commercial & Industrial, EV Charging Station, and Utilities are investigated in the market. In 2022, Utilities held the most market share of 49.94%, with Commercial & Industrial coming in second.

Markets in the Americas, Asia-Pacific, Europe, Middle East, and Africa are examined based on region. More research is being done on the Americas in the United States, Argentina, Brazil, Canada, and Mexico. More research is done on the United States in the following states: Florida, Illinois, New York, Ohio, Pennsylvania, Texas, and

California. Further research is being done on Australia, China, India, Indonesia, Japan, Malaysia, Philippines, Singapore, South Korea, Taiwan, Thailand, and Vietnam, as well as the Asia-Pacific region. Denmark, Egypt, Finland, France, Germany, Israel, Italy, Netherlands, Nigeria, Norway, Poland, Qatar, Russia, Saudi Arabia, South Africa, Spain, Sweden, Switzerland, Turkey, United Arab Emirates, and United Kingdom are among the countries in Europe, the Middle East, and Africa that are examined further. In 2022, Europe, the Middle East, and Africa held the greatest market share (33.48%), with Asia-Pacific coming in second.

This report illustrates the most vital attributes of the Flow Battery Market, which are driving and providing opportunities.

This research gives an in-depth analysis of the Flow Battery Market growth on the basis of several segments in the market.

This report presents the predictions of the past and present trends of the Flow Battery Market.

This study also presents the competitive analysis, such as key strategies and capabilities of major players of the Flow Battery Market.

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