

Flow Battery Market - Forecasts from 2018 to 2023

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Abstracts

Global flow battery market is projected to witness a CAGR of 28.61% during the forecast period to reach a total market size of US\$987.758 million by 2023, increasing from US\$218.250 million in 2017. Flow battery is a rechargeable electrochemical device which converts the chemical energy in the electro-active materials directly to electrical energy, similar to a conventional battery and fuel cells. The rechargeability is provided by two chemical components dissolved in liquids contained within the system and most commonly separated by a membrane. The market is driven by the more stable and durable performance of the flow batteries as compared to the conventional batteries because the electrodes in flow batteries do not undergo physical and chemical changes during operation (because they do not contain active materials). In a flow battery there is also inherent safety of storing the active materials separately from the reactive point source. Other advantages are quick response times (common to all battery systems), high electricity-to-electricity conversion efficiency, no cell-to-cell equalization requirement, simple state-of-charge indication (based on electro-active concentrations), low maintenance, tolerance to overcharge and over discharge, and perhaps most importantly, the ability for deep discharges without affecting cycle life.

This research study examines the current market trends related to the demand, supply, and sales, in addition to the recent developments. Major drivers, restraints, and opportunities have been covered to provide an exhaustive picture of the market. The analysis presents in-depth information regarding the development, trends, and industry policies and regulations implemented in each of the geographical regions. Further, the overall regulatory framework of the market has been exhaustively covered to offer stakeholders a better understanding of the key factors affecting the overall market environment.

Identification of key industry players in the industry and their revenue contribution to the overall business or relevant segment aligned to the study have been covered as a part

of competitive intelligence done through extensive secondary research. Various studies and data published by industry associations, analyst reports, investor presentations, press releases and journals among others have been taken into consideration while conducting the secondary research. Both bottom-up and top-down approaches have been utilized to determine the market size of the overall market and key segments. The values obtained are correlated with the primary inputs of the key stakeholders in the global flow battery value chain. The last step involves complete market engineering which includes analyzing the data from different sources and existing proprietary datasets while using various data triangulation methods for market breakdown and forecasting.

Market intelligence is presented in the form of analysis, charts, and graphics to help the clients in gaining faster and efficient understanding of the global Flow Battery market.

Major industry players profiled as part of the report are Kemwatt, Primus Power, Vanadis Power GmbH and Vionx Energy Corporation among others.

Segmentation

By Type

Redox Flow Battery

Organic Flow Battery

Hybrid Flow Battery

Membraneless Flow Battery

By Application

Commercial and Industrial

Utilities

Defense

Others

By Geography

North America

United States

Canada

Mexico

South America

Brazil

Argentina

Others

Europe

United Kingdom

Germany

France

Italy

Others

Middle East and Africa

Asia Pacific

China

India

Australia

South Korea

Others

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