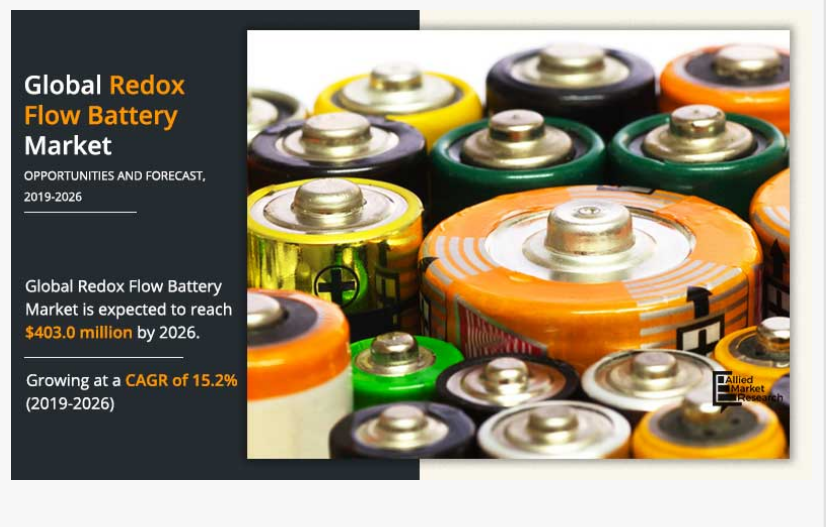


# Redox Flow Battery Market Poised for Strong Growth Driven by Renewable Energy Storage

▣ *Redox Flow Battery Market to Reach \$403 Million by 2026, Growing at 15.2% CAGR*

WILMINGTON, DE, UNITED STATES,  
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According to a new report published by Allied Market Research, the global [redox flow battery market](#) was valued at \$130.4 million in 2018 and is projected to reach \$403.0 million by 2026, growing at a strong CAGR of 15.2% from 2019 to 2026.



Redox flow batteries (RFBs) are emerging as a highly promising energy storage technology due to their scalability, recyclability, and suitability for renewable energy storage. Currently, the vanadium redox flow battery is the only commercially developed version available, but ongoing research and innovations are paving the way for new variants.



Redox flow battery market to hit \$403M by 2026, driven by renewable energy storage demand, UPS adoption & utility applications. ▣▣"

*Allied Market Research*

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Market Drivers

Several factors are fueling the rapid growth of the redox flow battery market:

- ▣ Low-cost energy storage solutions compared to alternatives.
- ▣ High adoption in utility applications, especially for large-scale projects.
- ▣ Increasing use in UPS systems for backup power reliability.

□ Growing integration with renewable energy to support clean and sustainable energy storage.

Redox flow batteries are particularly attractive for the renewable sector since they are 100% recyclable and do not pose major environmental concerns compared to other battery chemistries.

### Role in Renewable Energy Storage □

The shift toward clean and renewable energy is creating a huge demand for efficient [energy storage systems](#). Unlike conventional batteries, redox flow batteries use recirculating electrolytes that store energy electrochemically, offering:

- Decoupled energy density and power capacity, making them highly flexible.
- Scalable system design, suitable for small to large-scale renewable projects.
- Sustainability, as they can be recycled and reused without harming the environment.

As renewable adoption accelerates, RFBs are expected to play a critical role in stabilizing grids, storing solar and wind energy, and ensuring energy reliability.

### Segment Analysis

#### By Type

[Vanadium redox flow batteries](#) dominated the market in 2018 with nearly 80% share and are expected to retain their lead throughout the forecast period.

Their dominance stems from being the only fully developed redox flow technology, widely deployed in large-scale energy storage applications.

#### By Application

The utility facilities segment held the largest share in 2018 due to a high number of operational projects.

The renewable energy integration segment is projected to grow at the fastest pace, driven by government renewable targets and mandatory clean energy policies.

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## Regional Outlook □

The Asia-Pacific region emerged as the largest market for redox flow batteries in 2018 and is expected to continue its dominance. Countries like China, Japan, and South Korea are leading adoption due to massive renewable energy investments and supportive government initiatives.

Other regions, including North America and Europe, are also witnessing growth, fueled by rising grid modernization efforts and energy storage mandates.

## Competitive Landscape □

The global redox flow battery market is moderately consolidated, with key players focusing on expansion, product development, and partnerships to strengthen their presence.

Major companies profiled include:

Sumitomo Electric Industries, Ltd.

Dalian Rongke Power

UniEnergy Technologies

CELLCUBE

Avalon Battery Corporation

HydraRedox

VRB ENERGY

Vionx Energy

These players are investing in next-generation redox flow systems to meet growing demand for renewable energy storage worldwide.

## Key Findings of the Study □

Vanadium redox flow batteries held 80% market share in 2018 and will remain dominant.

Utility facilities were the largest application segment in 2018.

Asia-Pacific continues to be the leading regional market for redox flow batteries.

Renewable energy integration is expected to witness the fastest growth during the forecast period.

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## Conclusion □

The redox flow battery market is still in a developing phase but is showing remarkable potential as the world shifts toward sustainable and clean energy. With its unique advantages of scalability, recyclability, and cost-effectiveness, RFB technology is expected to play a pivotal role in renewable energy storage and grid stability.

By 2026, the market is forecasted to nearly triple in size, driven by strong demand from the utility sector, renewable energy integration, and backup power applications. As governments push for greener policies and renewable adoption, the redox flow battery market offers significant opportunities for investors, innovators, and energy providers alike. □□

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David Correa

Allied Market Research

+ +1 800-792-5285

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