

Global Flywheel Energy Storage Market 2024 by Company, Regions, Type and Application, Forecast to 2030

<https://marketpublishers.com/r/G9DE25C346CFEN.html>

Date: June 2024

Pages: 107

Price: US\$ 3,480.00 (Single User License)

ID: G9DE25C346CFEN

Abstracts

According to our (Global Info Research) latest study, the global Flywheel Energy Storage market size was valued at USD 157.7 million in 2023 and is forecast to a readjusted size of USD 199.9 million by 2030 with a CAGR of 3.4% during review period.

Flywheel energy storage (FES) works by accelerating a rotor (flywheel) to a very high speed and maintaining the energy in the system as rotational energy. When energy is extracted from the system, the flywheel's rotational speed is reduced as a consequence of the principle of conservation of energy; adding energy to the system correspondingly results in an increase in the speed of the flywheel.

Most FES systems use electricity to accelerate and decelerate the flywheel, but devices that directly use mechanical energy are being developed.

The industry's leading producers are Piller, Calnetix Technologies and ABB, with revenue ratios of 45.61%, 16.73% and 5.93%, respectively, in 2019.

The Global Info Research report includes an overview of the development of the Flywheel Energy Storage industry chain, the market status of Transportation (Based on Synchronous Motor Type, Based on Reluctance Motor Type), UPS (Based on Synchronous Motor Type, Based on Reluctance Motor Type), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Flywheel Energy Storage.

Regionally, the report analyzes the Flywheel Energy Storage markets in key regions.

North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Flywheel Energy Storage market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Flywheel Energy Storage market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Flywheel Energy Storage industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the revenue generated, and market share of different by Type (e.g., Based on Synchronous Motor Type, Based on Reluctance Motor Type).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Flywheel Energy Storage market.

Regional Analysis: The report involves examining the Flywheel Energy Storage market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Flywheel Energy Storage market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Flywheel Energy Storage:

Company Analysis: Report covers individual Flywheel Energy Storage players, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Flywheel Energy Storage. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Transportation, UPS).

Technology Analysis: Report covers specific technologies relevant to Flywheel Energy Storage. It assesses the current state, advancements, and potential future developments in Flywheel Energy Storage areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Flywheel Energy Storage market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Flywheel Energy Storage market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of value.

Market segment by Type

Based on Synchronous Motor Type

Based on Reluctance Motor Type

Based on Induction Motor Type

Market segment by Application

Transportation

UPS

Distributed Power Generation

Others

Market segment by players, this report covers

EnSync Energy

Beacon Power

Siemens

GKN Hybrid Power

Active Power

Calnetix Technologies

Vycon Energy

Temporal Power Ltd

Pentadyne Power Corporation

Kinetech Power Company

Langley Holdings

Amber Kinetics

Market segment by regions, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, UK, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Australia and

Rest of Asia-Pacific)

South America (Brazil, Argentina and Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Flywheel Energy Storage product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Flywheel Energy Storage, with revenue, gross margin and global market share of Flywheel Energy Storage from 2019 to 2024.

Chapter 3, the Flywheel Energy Storage competitive situation, revenue and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Type and application, with consumption value and growth rate by Type, application, from 2019 to 2030.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2019 to 2024. and Flywheel Energy Storage market forecast, by regions, type and application, with consumption value, from 2025 to 2030.

Chapter 11, market dynamics, drivers, restraints, trends and Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Flywheel Energy Storage.

Chapter 13, to describe Flywheel Energy Storage research findings and conclusion.

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