

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

<https://marketpublishers.com/r/G8D84BD29AD0EN.html>

Date: January 2024

Pages: 111

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

ID: G8D84BD29AD0EN

## Abstracts

According to our (Global Info Research) latest study, the global Flywheel Energy Storage Systems market size was valued at USD 157.7 million in 2023 and is forecast to a readjusted size of USD 262.7 million by 2030 with a CAGR of 7.6% 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 Systems industry chain, the market status of UPS (Less than 500KW, 500-1000KW), Electricity Grid (Less than 500KW, 500-1000KW), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Flywheel Energy Storage Systems.

Regionally, the report analyzes the Flywheel Energy Storage Systems 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 Systems market, with robust domestic demand, supportive policies, and a strong manufacturing base.

#### Key Features:

The report presents comprehensive understanding of the Flywheel Energy Storage Systems 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 Systems 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., Less than 500KW, 500-1000KW).

**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 Systems market.

**Regional Analysis:** The report involves examining the Flywheel Energy Storage Systems 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 Systems 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 Systems:

**Company Analysis:** Report covers individual Flywheel Energy Storage Systems 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 Systems This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (UPS, Electricity Grid).

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

**Competitive Landscape:** By analyzing individual companies, suppliers, and consumers, the report present insights into the competitive landscape of the Flywheel Energy Storage Systems 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 Systems 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

Less than 500KW

500-1000KW

More than 1000KW

### Market segment by Application

UPS

Electricity Grid

Transportation

Market segment by players, this report covers

Piller

Calnetix Technologies

ABB

POWERTHRU

PUNCH Flybrid

Amber Kinetic

Beijing Qifeng

Bc New Energy

Kinetic Traction Systems

Stornetic

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 Systems product scope, market overview, market estimation caveats and base year.

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

Chapter 3, the Flywheel Energy Storage Systems 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 Systems 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 Systems.

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

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