

Global Flywheel Energy Storage FES Market Research Report 2025(Status and Outlook)

<https://marketpublishers.com/r/G012AA7466C2EN.html>

Date: July 2025

Pages: 156

Price: US\$ 3,200.00 (Single User License)

ID: G012AA7466C2EN

Abstracts

Report Overview

Flywheel energy storage (FES) is a mechanical energy storage system that stores electricity in the form of kinetic energy by accelerating a rotor (flywheel) to very high speeds, maintaining the energy as rotational inertia until it is discharged by slowing the flywheel and converting the kinetic energy back into electricity. FES systems are known for their high power density, rapid response times (milliseconds), long operational lifespans (up to decades with minimal degradation), and ability to withstand frequent charge-discharge cycles without efficiency loss, making them ideal for short-duration, high-power applications such as grid stabilization, frequency regulation, and uninterruptible power supply (UPS) systems. Unlike chemical batteries, flywheels require no hazardous materials, have lower environmental impact, and perform reliably across a wide temperature range, though their energy density is typically lower than electrochemical storage solutions. Advanced FES designs incorporate magnetic bearings and vacuum enclosures to minimize friction and energy loss, improving round-trip efficiency to 85-95%. The technology is particularly competitive in markets demanding fast, high-cycle energy storage with minimal maintenance.

The global Flywheel Energy Storage FES market size was estimated at USD 271.57 million in 2024 and is projected to grow at a compound annual growth rate (CAGR) of 5.05% during the forecast period.

This report provides a deep insight into the global Flywheel Energy Storage FES market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Flywheel Energy Storage FES Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are planning to foray into the Flywheel Energy Storage FES market in any manner.

Global Flywheel Energy Storage FES Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

Beacon Power

Active Power

Siemens

Calnetix Technologies

Alstom Transport

POWERTHRU

AFS Trinity Power

Amber Kinetics

CCM

GKN Hybrid Power

Gloyer-Taylor Laboratories LLC

Kinetic Traction Systems

Piller Group

STORNETIC

Temporal Power

Market Segmentation (by Type)

Steel Rims
Composite Rims
Others

Market Segmentation (by Application)

Transportation
UPS
Wind Turbines
Automobile
Others

Geographic Segmentation

North America (USA, Canada, Mexico)
Europe (Germany, UK, France, Russia, Italy, Rest of Europe)
Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)
South America (Brazil, Argentina, Columbia, Rest of South America)
The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments
Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Flywheel Energy Storage FES Market
Overview of the regional outlook of the Flywheel Energy Storage FES Market:

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product

type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Flywheel Energy Storage FES Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Flywheel Energy Storage FES, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Flywheel Energy Storage FES

1.2 Key Market Segments

1.2.1 Flywheel Energy Storage FES Segment by Type

1.2.2 Flywheel Energy Storage FES Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 FLYWHEEL ENERGY STORAGE FES MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Flywheel Energy Storage FES Market Size (M USD) Estimates and Forecasts (2020-2033)

2.1.2 Global Flywheel Energy Storage FES Sales Estimates and Forecasts (2020-2033)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

3 FLYWHEEL ENERGY STORAGE FES MARKET COMPETITIVE LANDSCAPE

3.1 Company Assessment Quadrant

3.2 Global Flywheel Energy Storage FES Product Life Cycle

3.3 Global Flywheel Energy Storage FES Sales by Manufacturers (2020-2025)

3.4 Global Flywheel Energy Storage FES Revenue Market Share by Manufacturers (2020-2025)

3.5 Flywheel Energy Storage FES Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.6 Global Flywheel Energy Storage FES Average Price by Manufacturers (2020-2025)

3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types

3.8 Flywheel Energy Storage FES Market Competitive Situation and Trends

3.8.1 Flywheel Energy Storage FES Market Concentration Rate

3.8.2 Global 5 and 10 Largest Flywheel Energy Storage FES Players Market Share by

Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 FLYWHEEL ENERGY STORAGE FES INDUSTRY CHAIN ANALYSIS

4.1 Flywheel Energy Storage FES Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF FLYWHEEL ENERGY STORAGE FES MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Flywheel Energy Storage FES Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Flywheel Energy Storage FES Market

5.7 ESG Ratings of Leading Companies

6 FLYWHEEL ENERGY STORAGE FES MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Flywheel Energy Storage FES Sales Market Share by Type (2020-2025)

6.3 Global Flywheel Energy Storage FES Market Size Market Share by Type (2020-2025)

6.4 Global Flywheel Energy Storage FES Price by Type (2020-2025)

7 FLYWHEEL ENERGY STORAGE FES MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Flywheel Energy Storage FES Market Sales by Application (2020-2025)

7.3 Global Flywheel Energy Storage FES Market Size (M USD) by Application (2020-2025)

7.4 Global Flywheel Energy Storage FES Sales Growth Rate by Application (2020-2025)

8 FLYWHEEL ENERGY STORAGE FES MARKET SALES BY REGION

8.1 Global Flywheel Energy Storage FES Sales by Region

8.1.1 Global Flywheel Energy Storage FES Sales by Region

8.1.2 Global Flywheel Energy Storage FES Sales Market Share by Region

8.2 Global Flywheel Energy Storage FES Market Size by Region

8.2.1 Global Flywheel Energy Storage FES Market Size by Region

8.2.2 Global Flywheel Energy Storage FES Market Size Market Share by Region

8.3 North America

8.3.1 North America Flywheel Energy Storage FES Sales by Country

8.3.2 North America Flywheel Energy Storage FES Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Flywheel Energy Storage FES Sales by Country

8.4.2 Europe Flywheel Energy Storage FES Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Spain Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Flywheel Energy Storage FES Sales by Region

8.5.2 Asia Pacific Flywheel Energy Storage FES Market Size by Region

8.5.3 China Market Overview

8.5.4 Japan Market Overview

- 8.5.5 South Korea Market Overview
- 8.5.6 India Market Overview
- 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Flywheel Energy Storage FES Sales by Country
 - 8.6.2 South America Flywheel Energy Storage FES Market Size by Country
 - 8.6.3 Brazil Market Overview
 - 8.6.4 Argentina Market Overview
 - 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Flywheel Energy Storage FES Sales by Region
 - 8.7.2 Middle East and Africa Flywheel Energy Storage FES Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 FLYWHEEL ENERGY STORAGE FES MARKET PRODUCTION BY REGION

- 9.1 Global Production of Flywheel Energy Storage FES by Region(2020-2025)
- 9.2 Global Flywheel Energy Storage FES Revenue Market Share by Region (2020-2025)
- 9.3 Global Flywheel Energy Storage FES Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Flywheel Energy Storage FES Production
 - 9.4.1 North America Flywheel Energy Storage FES Production Growth Rate (2020-2025)
 - 9.4.2 North America Flywheel Energy Storage FES Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Flywheel Energy Storage FES Production
 - 9.5.1 Europe Flywheel Energy Storage FES Production Growth Rate (2020-2025)
 - 9.5.2 Europe Flywheel Energy Storage FES Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Flywheel Energy Storage FES Production (2020-2025)
 - 9.6.1 Japan Flywheel Energy Storage FES Production Growth Rate (2020-2025)
 - 9.6.2 Japan Flywheel Energy Storage FES Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Flywheel Energy Storage FES Production (2020-2025)

- 9.7.1 China Flywheel Energy Storage FES Production Growth Rate (2020-2025)
- 9.7.2 China Flywheel Energy Storage FES Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

10.1 Beacon Power

- 10.1.1 Beacon Power Basic Information
- 10.1.2 Beacon Power Flywheel Energy Storage FES Product Overview
- 10.1.3 Beacon Power Flywheel Energy Storage FES Product Market Performance
- 10.1.4 Beacon Power Business Overview
- 10.1.5 Beacon Power SWOT Analysis
- 10.1.6 Beacon Power Recent Developments

10.2 Active Power

- 10.2.1 Active Power Basic Information
- 10.2.2 Active Power Flywheel Energy Storage FES Product Overview
- 10.2.3 Active Power Flywheel Energy Storage FES Product Market Performance
- 10.2.4 Active Power Business Overview
- 10.2.5 Active Power SWOT Analysis
- 10.2.6 Active Power Recent Developments

10.3 Siemens

- 10.3.1 Siemens Basic Information
- 10.3.2 Siemens Flywheel Energy Storage FES Product Overview
- 10.3.3 Siemens Flywheel Energy Storage FES Product Market Performance
- 10.3.4 Siemens Business Overview
- 10.3.5 Siemens SWOT Analysis
- 10.3.6 Siemens Recent Developments

10.4 Calnetix Technologies

- 10.4.1 Calnetix Technologies Basic Information
- 10.4.2 Calnetix Technologies Flywheel Energy Storage FES Product Overview
- 10.4.3 Calnetix Technologies Flywheel Energy Storage FES Product Market Performance
- 10.4.4 Calnetix Technologies Business Overview
- 10.4.5 Calnetix Technologies Recent Developments

10.5 Alstom Transport

- 10.5.1 Alstom Transport Basic Information
- 10.5.2 Alstom Transport Flywheel Energy Storage FES Product Overview
- 10.5.3 Alstom Transport Flywheel Energy Storage FES Product Market Performance
- 10.5.4 Alstom Transport Business Overview

10.5.5 Alstom Transport Recent Developments

10.6 POWERTHRU

10.6.1 POWERTHRU Basic Information

10.6.2 POWERTHRU Flywheel Energy Storage FES Product Overview

10.6.3 POWERTHRU Flywheel Energy Storage FES Product Market Performance

10.6.4 POWERTHRU Business Overview

10.6.5 POWERTHRU Recent Developments

10.7 AFS Trinity Power

10.7.1 AFS Trinity Power Basic Information

10.7.2 AFS Trinity Power Flywheel Energy Storage FES Product Overview

10.7.3 AFS Trinity Power Flywheel Energy Storage FES Product Market Performance

10.7.4 AFS Trinity Power Business Overview

10.7.5 AFS Trinity Power Recent Developments

10.8 Amber Kinetics

10.8.1 Amber Kinetics Basic Information

10.8.2 Amber Kinetics Flywheel Energy Storage FES Product Overview

10.8.3 Amber Kinetics Flywheel Energy Storage FES Product Market Performance

10.8.4 Amber Kinetics Business Overview

10.8.5 Amber Kinetics Recent Developments

10.9 CCM

10.9.1 CCM Basic Information

10.9.2 CCM Flywheel Energy Storage FES Product Overview

10.9.3 CCM Flywheel Energy Storage FES Product Market Performance

10.9.4 CCM Business Overview

10.9.5 CCM Recent Developments

10.10 GKN Hybrid Power

10.10.1 GKN Hybrid Power Basic Information

10.10.2 GKN Hybrid Power Flywheel Energy Storage FES Product Overview

10.10.3 GKN Hybrid Power Flywheel Energy Storage FES Product Market

Performance

10.10.4 GKN Hybrid Power Business Overview

10.10.5 GKN Hybrid Power Recent Developments

10.11 Gloyer-Taylor Laboratories LLC

10.11.1 Gloyer-Taylor Laboratories LLC Basic Information

10.11.2 Gloyer-Taylor Laboratories LLC Flywheel Energy Storage FES Product Overview

10.11.3 Gloyer-Taylor Laboratories LLC Flywheel Energy Storage FES Product Market Performance

10.11.4 Gloyer-Taylor Laboratories LLC Business Overview

- 10.11.5 Gloyer-Taylor Laboratories LLC Recent Developments
- 10.12 Kinetic Traction Systems
 - 10.12.1 Kinetic Traction Systems Basic Information
 - 10.12.2 Kinetic Traction Systems Flywheel Energy Storage FES Product Overview
 - 10.12.3 Kinetic Traction Systems Flywheel Energy Storage FES Product Market Performance
 - 10.12.4 Kinetic Traction Systems Business Overview
 - 10.12.5 Kinetic Traction Systems Recent Developments
- 10.13 Piller Group
 - 10.13.1 Piller Group Basic Information
 - 10.13.2 Piller Group Flywheel Energy Storage FES Product Overview
 - 10.13.3 Piller Group Flywheel Energy Storage FES Product Market Performance
 - 10.13.4 Piller Group Business Overview
 - 10.13.5 Piller Group Recent Developments
- 10.14 STORNETIC
 - 10.14.1 STORNETIC Basic Information
 - 10.14.2 STORNETIC Flywheel Energy Storage FES Product Overview
 - 10.14.3 STORNETIC Flywheel Energy Storage FES Product Market Performance
 - 10.14.4 STORNETIC Business Overview
 - 10.14.5 STORNETIC Recent Developments
- 10.15 Temporal Power
 - 10.15.1 Temporal Power Basic Information
 - 10.15.2 Temporal Power Flywheel Energy Storage FES Product Overview
 - 10.15.3 Temporal Power Flywheel Energy Storage FES Product Market Performance
 - 10.15.4 Temporal Power Business Overview
 - 10.15.5 Temporal Power Recent Developments

11 FLYWHEEL ENERGY STORAGE FES MARKET FORECAST BY REGION

- 11.1 Global Flywheel Energy Storage FES Market Size Forecast
- 11.2 Global Flywheel Energy Storage FES Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Flywheel Energy Storage FES Market Size Forecast by Country
 - 11.2.3 Asia Pacific Flywheel Energy Storage FES Market Size Forecast by Region
 - 11.2.4 South America Flywheel Energy Storage FES Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Flywheel Energy Storage FES by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2033)

12.1 Global Flywheel Energy Storage FES Market Forecast by Type (2026-2033)

12.1.1 Global Forecasted Sales of Flywheel Energy Storage FES by Type (2026-2033)

12.1.2 Global Flywheel Energy Storage FES Market Size Forecast by Type
(2026-2033)

12.1.3 Global Forecasted Price of Flywheel Energy Storage FES by Type (2026-2033)

12.2 Global Flywheel Energy Storage FES Market Forecast by Application (2026-2033)

12.2.1 Global Flywheel Energy Storage FES Sales (K Units) Forecast by Application

12.2.2 Global Flywheel Energy Storage FES Market Size (M USD) Forecast by
Application (2026-2033)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

Table 1. Introduction of the Type

Table 2. Introduction of the Application

Table 3. Market Size (M USD) Segment Executive Summary

Table 4. Flywheel Energy Storage FES Market Size Comparison by Region (M USD)

Table 5. Global Flywheel Energy Storage FES Sales (K Units) by Manufacturers
(2020-2025)

Table 6. Global Flywheel Energy Storage FES Sales Market Share by Manufacturers
(2020-2025)

Table 7. Global Flywheel Energy Storage FES Revenue (M USD) by Manufacturers
(2020-2025)

Table 8. Global Flywheel Energy Storage FES Revenue Share by Manufacturers
(2020-2025)

Table 9. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in
Flywheel Energy Storage FES as of 2024)

Table 10. Global Market Flywheel Energy Storage FES Average Price (USD/Unit) of
Key Manufacturers (2020-2025)

Table 11. Manufacturers? Manufacturing Sites, Areas Served

Table 12. Manufacturers? Product Type

Table 13. Global Flywheel Energy Storage FES Manufacturers Market Concentration
Ratio (CR5 and HHI)

Table 14. Mergers & Acquisitions, Expansion Plans

Table 15. Market Overview of Key Raw Materials

Table 16. Midstream Market Analysis

Table 17. Downstream Customer Analysis

Table 18. Key Development Trends

Table 19. Driving Factors

Table 20. Flywheel Energy Storage FES Market Challenges

Table 21. Goldman Sachs' forecast real GDP growth rate for 2024-2026

Table 22. S&P Global ' Forecast Real GDP Growth Rate For 2024-2027

Table 23. World Bank ' Forecast Real GDP Growth Rate For 2024-2026

Table 24. The Tariff Rates Imposed by the United States on Major Commodity Trading
Countries

Table 25. Global Flywheel Energy Storage FES Sales by Type (K Units)

Table 26. Global Flywheel Energy Storage FES Market Size by Type (M USD)

Table 27. Global Flywheel Energy Storage FES Sales (K Units) by Type (2020-2025)

Table 28. Global Flywheel Energy Storage FES Sales Market Share by Type (2020-2025)

Table 29. Global Flywheel Energy Storage FES Market Size (M USD) by Type (2020-2025)

Table 30. Global Flywheel Energy Storage FES Market Size Share by Type (2020-2025)

Table 31. Global Flywheel Energy Storage FES Price (USD/Unit) by Type (2020-2025)

Table 32. Global Flywheel Energy Storage FES Sales (K Units) by Application

Table 33. Global Flywheel Energy Storage FES Market Size by Application

Table 34. Global Flywheel Energy Storage FES Sales by Application (2020-2025) & (K Units)

Table 35. Global Flywheel Energy Storage FES Sales Market Share by Application (2020-2025)

Table 36. Global Flywheel Energy Storage FES Market Size by Application (2020-2025) & (M USD)

Table 37. Global Flywheel Energy Storage FES Market Share by Application (2020-2025)

Table 38. Global Flywheel Energy Storage FES Sales Growth Rate by Application (2020-2025)

Table 39. Global Flywheel Energy Storage FES Sales by Region (2020-2025) & (K Units)

Table 40. Global Flywheel Energy Storage FES Sales Market Share by Region (2020-2025)

Table 41. Global Flywheel Energy Storage FES Market Size by Region (2020-2025) & (M USD)

Table 42. Global Flywheel Energy Storage FES Market Size Market Share by Region (2020-2025)

Table 43. North America Flywheel Energy Storage FES Sales by Country (2020-2025) & (K Units)

Table 44. North America Flywheel Energy Storage FES Market Size by Country (2020-2025) & (M USD)

Table 45. Europe Flywheel Energy Storage FES Sales by Country (2020-2025) & (K Units)

Table 46. Europe Flywheel Energy Storage FES Market Size by Country (2020-2025) & (M USD)

Table 47. Asia Pacific Flywheel Energy Storage FES Sales by Region (2020-2025) & (K Units)

Table 48. Asia Pacific Flywheel Energy Storage FES Market Size by Region (2020-2025) & (M USD)

Table 49. South America Flywheel Energy Storage FES Sales by Country (2020-2025) & (K Units)

Table 50. South America Flywheel Energy Storage FES Market Size by Country (2020-2025) & (M USD)

Table 51. Middle East and Africa Flywheel Energy Storage FES Sales by Region (2020-2025) & (K Units)

Table 52. Middle East and Africa Flywheel Energy Storage FES Market Size by Region (2020-2025) & (M USD)

Table 53. Global Flywheel Energy Storage FES Production (K Units) by Region(2020-2025)

Table 54. Global Flywheel Energy Storage FES Revenue (US\$ Million) by Region (2020-2025)

Table 55. Global Flywheel Energy Storage FES Revenue Market Share by Region (2020-2025)

Table 56. Global Flywheel Energy Storage FES Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 57. North America Flywheel Energy Storage FES Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 58. Europe Flywheel Energy Storage FES Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 59. Japan Flywheel Energy Storage FES Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 60. China Flywheel Energy Storage FES Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)

Table 61. Beacon Power Basic Information

Table 62. Beacon Power Flywheel Energy Storage FES Product Overview

Table 63. Beacon Power Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 64. Beacon Power Business Overview

Table 65. Beacon Power SWOT Analysis

Table 66. Beacon Power Recent Developments

Table 67. Active Power Basic Information

Table 68. Active Power Flywheel Energy Storage FES Product Overview

Table 69. Active Power Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 70. Active Power Business Overview

Table 71. Active Power SWOT Analysis

Table 72. Active Power Recent Developments

Table 73. Siemens Basic Information

Table 74. Siemens Flywheel Energy Storage FES Product Overview
Table 75. Siemens Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 76. Siemens Business Overview
Table 77. Siemens SWOT Analysis
Table 78. Siemens Recent Developments
Table 79. Calnetix Technologies Basic Information
Table 80. Calnetix Technologies Flywheel Energy Storage FES Product Overview
Table 81. Calnetix Technologies Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 82. Calnetix Technologies Business Overview
Table 83. Calnetix Technologies Recent Developments
Table 84. Alstom Transport Basic Information
Table 85. Alstom Transport Flywheel Energy Storage FES Product Overview
Table 86. Alstom Transport Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 87. Alstom Transport Business Overview
Table 88. Alstom Transport Recent Developments
Table 89. POWERTHRU Basic Information
Table 90. POWERTHRU Flywheel Energy Storage FES Product Overview
Table 91. POWERTHRU Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 92. POWERTHRU Business Overview
Table 93. POWERTHRU Recent Developments
Table 94. AFS Trinity Power Basic Information
Table 95. AFS Trinity Power Flywheel Energy Storage FES Product Overview
Table 96. AFS Trinity Power Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 97. AFS Trinity Power Business Overview
Table 98. AFS Trinity Power Recent Developments
Table 99. Amber Kinetics Basic Information
Table 100. Amber Kinetics Flywheel Energy Storage FES Product Overview
Table 101. Amber Kinetics Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
Table 102. Amber Kinetics Business Overview
Table 103. Amber Kinetics Recent Developments
Table 104. CCM Basic Information
Table 105. CCM Flywheel Energy Storage FES Product Overview
Table 106. CCM Flywheel Energy Storage FES Sales (K Units), Revenue (M USD),

Price (USD/Unit) and Gross Margin (2020-2025)

Table 107. CCM Business Overview

Table 108. CCM Recent Developments

Table 109. GKN Hybrid Power Basic Information

Table 110. GKN Hybrid Power Flywheel Energy Storage FES Product Overview

Table 111. GKN Hybrid Power Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 112. GKN Hybrid Power Business Overview

Table 113. GKN Hybrid Power Recent Developments

Table 114. Gloyer-Taylor Laboratories LLC Basic Information

Table 115. Gloyer-Taylor Laboratories LLC Flywheel Energy Storage FES Product Overview

Table 116. Gloyer-Taylor Laboratories LLC Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 117. Gloyer-Taylor Laboratories LLC Business Overview

Table 118. Gloyer-Taylor Laboratories LLC Recent Developments

Table 119. Kinetic Traction Systems Basic Information

Table 120. Kinetic Traction Systems Flywheel Energy Storage FES Product Overview

Table 121. Kinetic Traction Systems Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 122. Kinetic Traction Systems Business Overview

Table 123. Kinetic Traction Systems Recent Developments

Table 124. Pillar Group Basic Information

Table 125. Pillar Group Flywheel Energy Storage FES Product Overview

Table 126. Pillar Group Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 127. Pillar Group Business Overview

Table 128. Pillar Group Recent Developments

Table 129. STORNETIC Basic Information

Table 130. STORNETIC Flywheel Energy Storage FES Product Overview

Table 131. STORNETIC Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 132. STORNETIC Business Overview

Table 133. STORNETIC Recent Developments

Table 134. Temporal Power Basic Information

Table 135. Temporal Power Flywheel Energy Storage FES Product Overview

Table 136. Temporal Power Flywheel Energy Storage FES Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

Table 137. Temporal Power Business Overview

Table 138. Temporal Power Recent Developments

Table 139. Global Flywheel Energy Storage FES Sales Forecast by Region
(2026-2033) & (K Units)

Table 140. Global Flywheel Energy Storage FES Market Size Forecast by Region
(2026-2033) & (M USD)

Table 141. North America Flywheel Energy Storage FES Sales Forecast by Country
(2026-2033) & (K Units)

Table 142. North America Flywheel Energy Storage FES Market Size Forecast by
Country (2026-2033) & (M USD)

Table 143. Europe Flywheel Energy Storage FES Sales Forecast by Country
(2026-2033) & (K Units)

Table 144. Europe Flywheel Energy Storage FES Market Size Forecast by Country
(2026-2033) & (M USD)

Table 145. Asia Pacific Flywheel Energy Storage FES Sales Forecast by Region
(2026-2033) & (K Units)

Table 146. Asia Pacific Flywheel Energy Storage FES Market Size Forecast by Region
(2026-2033) & (M USD)

Table 147. South America Flywheel Energy Storage FES Sales Forecast by Country
(2026-2033) & (K Units)

Table 148. South America Flywheel Energy Storage FES Market Size Forecast by
Country (2026-2033) & (M USD)

Table 149. Middle East and Africa Flywheel Energy Storage FES Sales Forecast by
Country (2026-2033) & (Units)

Table 150. Middle East and Africa Flywheel Energy Storage FES Market Size Forecast
by Country (2026-2033) & (M USD)

Table 151. Global Flywheel Energy Storage FES Sales Forecast by Type (2026-2033)
& (K Units)

Table 152. Global Flywheel Energy Storage FES Market Size Forecast by Type
(2026-2033) & (M USD)

Table 153. Global Flywheel Energy Storage FES Price Forecast by Type (2026-2033) &
(USD/Unit)

Table 154. Global Flywheel Energy Storage FES Sales (K Units) Forecast by
Application (2026-2033)

Table 155. Global Flywheel Energy Storage FES Market Size Forecast by Application
(2026-2033) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Flywheel Energy Storage FES
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Flywheel Energy Storage FES Market Size (M USD), 2024-2033
- Figure 5. Global Flywheel Energy Storage FES Market Size (M USD) (2020-2033)
- Figure 6. Global Flywheel Energy Storage FES Sales (K Units) & (2020-2033)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Flywheel Energy Storage FES Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Flywheel Energy Storage FES Product Life Cycle
- Figure 13. Flywheel Energy Storage FES Sales Share by Manufacturers in 2024
- Figure 14. Global Flywheel Energy Storage FES Revenue Share by Manufacturers in 2024
- Figure 15. Flywheel Energy Storage FES Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2024
- Figure 16. Global Market Flywheel Energy Storage FES Average Price (USD/Unit) of Key Manufacturers in 2024
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Flywheel Energy Storage FES Revenue in 2024
- Figure 18. Industry Chain Map of Flywheel Energy Storage FES
- Figure 19. Global Flywheel Energy Storage FES Market PEST Analysis
- Figure 20. Global Flywheel Energy Storage FES Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Flywheel Energy Storage FES Market Share by Type
- Figure 27. Sales Market Share of Flywheel Energy Storage FES by Type (2020-2025)
- Figure 28. Sales Market Share of Flywheel Energy Storage FES by Type in 2024
- Figure 29. Market Size Share of Flywheel Energy Storage FES by Type (2020-2025)
- Figure 30. Market Size Share of Flywheel Energy Storage FES by Type in 2024
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

Figure 32. Global Flywheel Energy Storage FES Market Share by Application

Figure 33. Global Flywheel Energy Storage FES Sales Market Share by Application (2020-2025)

Figure 34. Global Flywheel Energy Storage FES Sales Market Share by Application in 2024

Figure 35. Global Flywheel Energy Storage FES Market Share by Application (2020-2025)

Figure 36. Global Flywheel Energy Storage FES Market Share by Application in 2024

Figure 37. Global Flywheel Energy Storage FES Sales Growth Rate by Application (2020-2025)

Figure 38. Global Flywheel Energy Storage FES Sales Market Share by Region (2020-2025)

Figure 39. Global Flywheel Energy Storage FES Market Size Market Share by Region (2020-2025)

Figure 40. North America Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 41. North America Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 42. North America Flywheel Energy Storage FES Sales Market Share by Country in 2024

Figure 43. North America Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 44. North America Flywheel Energy Storage FES Market Size Market Share by Country in 2024

Figure 45. U.S. Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 46. U.S. Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 47. Canada Flywheel Energy Storage FES Sales (K Units) and Growth Rate (2020-2025)

Figure 48. Canada Flywheel Energy Storage FES Market Size (M USD) and Growth Rate (2020-2025)

Figure 49. Mexico Flywheel Energy Storage FES Sales (Units) and Growth Rate (2020-2025)

Figure 50. Mexico Flywheel Energy Storage FES Market Size (Units) and Growth Rate (2020-2025)

Figure 51. Europe Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 52. Europe Flywheel Energy Storage FES Sales Market Share by Country in

2024

Figure 53. Europe Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 54. Europe Flywheel Energy Storage FES Market Size Market Share by Country in 2024

Figure 55. Germany Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 56. Germany Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 58. France Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 60. U.K. Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 62. Italy Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 64. Spain Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Flywheel Energy Storage FES Sales and Growth Rate (K Units)

Figure 66. Asia Pacific Flywheel Energy Storage FES Sales Market Share by Region in 2024

Figure 67. Asia Pacific Flywheel Energy Storage FES Market Size Market Share by Region in 2024

Figure 68. China Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 69. China Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 71. Japan Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Flywheel Energy Storage FES Sales and Growth Rate

(2020-2025) & (K Units)

Figure 73. South Korea Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 75. India Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 76. Southeast Asia Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 77. Southeast Asia Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Flywheel Energy Storage FES Sales and Growth Rate (K Units)

Figure 79. South America Flywheel Energy Storage FES Sales Market Share by Country in 2024

Figure 80. South America Flywheel Energy Storage FES Market Size and Growth Rate (M USD)

Figure 81. South America Flywheel Energy Storage FES Market Size Market Share by Country in 2024

Figure 82. Brazil Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 83. Brazil Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 85. Argentina Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 87. Columbia Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Flywheel Energy Storage FES Sales and Growth Rate (K Units)

Figure 89. Middle East and Africa Flywheel Energy Storage FES Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Flywheel Energy Storage FES Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Flywheel Energy Storage FES Market Size Market Share by Region in 2024

Figure 92. Saudi Arabia Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 93. Saudi Arabia Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 95. UAE Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 97. Egypt Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 99. Nigeria Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Flywheel Energy Storage FES Sales and Growth Rate (2020-2025) & (K Units)

Figure 101. South Africa Flywheel Energy Storage FES Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Flywheel Energy Storage FES Production Market Share by Region (2020-2025)

Figure 103. North America Flywheel Energy Storage FES Production (K Units) Growth Rate (2020-2025)

Figure 104. Europe Flywheel Energy Storage FES Production (K Units) Growth Rate (2020-2025)

Figure 105. Japan Flywheel Energy Storage FES Production (K Units) Growth Rate (2020-2025)

Figure 106. China Flywheel Energy Storage FES Production (K Units) Growth Rate (2020-2025)

Figure 107. Global Flywheel Energy Storage FES Sales Forecast by Volume (2020-2033) & (K Units)

Figure 108. Global Flywheel Energy Storage FES Market Size Forecast by Value (2020-2033) & (M USD)

Figure 109. Global Flywheel Energy Storage FES Sales Market Share Forecast by Type (2026-2033)

Figure 110. Global Flywheel Energy Storage FES Market Share Forecast by Type (2026-2033)

Figure 111. Global Flywheel Energy Storage FES Sales Forecast by Application

(2026-2033)

Figure 112. Global Flywheel Energy Storage FES Market Share Forecast by Application
(2026-2033)

I would like to order

Product name: Global Flywheel Energy Storage FES Market Research Report 2025(Status and Outlook)

Product link: <https://marketpublishers.com/r/G012AA7466C2EN.html>

Price: US\$ 3,200.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G012AA7466C2EN.html>