

# Global Energy Storage Flywheel Market Research Report 2026(Status and Outlook)

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## Abstracts

An energy storage flywheel is a mechanical device used to store and release energy by utilizing the rotational kinetic energy of a spinning mass. The flywheel consists of a rotor that spins at high speeds within a low-friction environment, typically a vacuum chamber. When energy is supplied to the system, it accelerates the rotor, storing energy in the form of rotational motion. This energy can then be quickly released by slowing down the rotor, providing a rapid and efficient power supply. Flywheel energy storage systems are known for their high power density, long cycle life, and quick response times, making them suitable for applications such as grid stability, renewable energy integration, uninterruptible power supplies (UPS), and transportation. They offer a sustainable and reliable method for energy storage, contributing to enhanced energy management and efficiency.

The global Energy Storage Flywheel market size was estimated at USD 236.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 9.50% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Energy Storage Flywheel market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Energy Storage Flywheel market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Energy Storage Flywheel market.

### **Global Energy Storage Flywheel Market: Market Segmentation Analysis**

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

### **Key Company**

Piller

Calnetix Technologies

ABB

POWERTHRU

PUNCH Flybrid

Revterra

Amber Kinetic

Shandong Tianrui Heavy Industry

Stornetic

VYCON

Beijing Qifeng Energy Technology

Huachi Dongneng

Kinetic Traction Systems  
BC New Energy

### **Market Segmentation (by Type)**

Below 500 MJ  
500-1500 MJ  
Above 1500 MJ

### **Market Segmentation (by Application)**

Power Grid  
Rail Transit  
UPS Uninterruptible Power Supply  
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 Energy Storage Flywheel Market  
Overview of the regional outlook of the Energy Storage Flywheel 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 Energy Storage Flywheel 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 Energy Storage Flywheel, 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**

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## Contents

### **1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE**

- 1.1 Market Definition and Statistical Scope of Energy Storage Flywheel
- 1.2 Key Market Segments
  - 1.2.1 Energy Storage Flywheel Segment by Type
  - 1.2.2 Energy Storage Flywheel 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 ENERGY STORAGE FLYWHEEL MARKET OVERVIEW**

- 2.1 Global Market Overview
  - 2.1.1 Global Energy Storage Flywheel Market Size (M USD) Estimates and Forecasts (2020-2035)
  - 2.1.2 Global Energy Storage Flywheel Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

### **3 ENERGY STORAGE FLYWHEEL MARKET COMPETITIVE LANDSCAPE**

- 3.1 Company Assessment Quadrant
- 3.2 Global Energy Storage Flywheel Product Life Cycle
- 3.3 Global Energy Storage Flywheel Sales by Manufacturers (2020-2025)
- 3.4 Global Energy Storage Flywheel Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Energy Storage Flywheel Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Energy Storage Flywheel Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Energy Storage Flywheel Market Competitive Situation and Trends
  - 3.8.1 Energy Storage Flywheel Market Concentration Rate
  - 3.8.2 Global 5 and 10 Largest Energy Storage Flywheel Players Market Share by Revenue

### 3.8.3 Mergers & Acquisitions, Expansion

## **4 ENERGY STORAGE FLYWHEEL INDUSTRY CHAIN ANALYSIS**

### 4.1 Energy Storage Flywheel 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 ENERGY STORAGE FLYWHEEL 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 Energy Storage Flywheel 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 Energy Storage Flywheel Market

### 5.7 ESG Ratings of Leading Companies

## **6 ENERGY STORAGE FLYWHEEL MARKET SEGMENTATION BY TYPE**

### 6.1 Evaluation Matrix of Segment Market Development Potential (Type)

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

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

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

## **7 ENERGY STORAGE FLYWHEEL MARKET SEGMENTATION BY APPLICATION**

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Energy Storage Flywheel Market Sales by Application (2020-2025)
- 7.3 Global Energy Storage Flywheel Market Size (M USD) by Application (2020-2025)
- 7.4 Global Energy Storage Flywheel Sales Growth Rate by Application (2020-2025)

## **8 ENERGY STORAGE FLYWHEEL MARKET SALES BY REGION**

- 8.1 Global Energy Storage Flywheel Sales by Region
  - 8.1.1 Global Energy Storage Flywheel Sales by Region
  - 8.1.2 Global Energy Storage Flywheel Sales Market Share by Region
- 8.2 Global Energy Storage Flywheel Market Size by Region
  - 8.2.1 Global Energy Storage Flywheel Market Size by Region
  - 8.2.2 Global Energy Storage Flywheel Market Size by Region
- 8.3 North America
  - 8.3.1 North America Energy Storage Flywheel Sales by Country
  - 8.3.2 North America Energy Storage Flywheel 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 Energy Storage Flywheel Sales by Country
  - 8.4.2 Europe Energy Storage Flywheel 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 Energy Storage Flywheel Sales by Region
  - 8.5.2 Asia Pacific Energy Storage Flywheel 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 Energy Storage Flywheel Sales by Country
  - 8.6.2 South America Energy Storage Flywheel 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 Energy Storage Flywheel Sales by Region
  - 8.7.2 Middle East and Africa Energy Storage Flywheel 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 ENERGY STORAGE FLYWHEEL MARKET PRODUCTION BY REGION**

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

## **10 KEY COMPANIES PROFILE**

- 10.1 Piller
  - 10.1.1 Piller Basic Information

- 10.1.2 Piller Energy Storage Flywheel Product Overview
- 10.1.3 Piller Energy Storage Flywheel Product Market Performance
- 10.1.4 Piller Business Overview
- 10.1.5 Piller SWOT Analysis
- 10.1.6 Piller Recent Developments
- 10.2 Calnetix Technologies
  - 10.2.1 Calnetix Technologies Basic Information
  - 10.2.2 Calnetix Technologies Energy Storage Flywheel Product Overview
  - 10.2.3 Calnetix Technologies Energy Storage Flywheel Product Market Performance
  - 10.2.4 Calnetix Technologies Business Overview
  - 10.2.5 Calnetix Technologies SWOT Analysis
  - 10.2.6 Calnetix Technologies Recent Developments
- 10.3 ABB
  - 10.3.1 ABB Basic Information
  - 10.3.2 ABB Energy Storage Flywheel Product Overview
  - 10.3.3 ABB Energy Storage Flywheel Product Market Performance
  - 10.3.4 ABB Business Overview
  - 10.3.5 ABB SWOT Analysis
  - 10.3.6 ABB Recent Developments
- 10.4 POWERTHRU
  - 10.4.1 POWERTHRU Basic Information
  - 10.4.2 POWERTHRU Energy Storage Flywheel Product Overview
  - 10.4.3 POWERTHRU Energy Storage Flywheel Product Market Performance
  - 10.4.4 POWERTHRU Business Overview
  - 10.4.5 POWERTHRU Recent Developments
- 10.5 PUNCH Flybrid
  - 10.5.1 PUNCH Flybrid Basic Information
  - 10.5.2 PUNCH Flybrid Energy Storage Flywheel Product Overview
  - 10.5.3 PUNCH Flybrid Energy Storage Flywheel Product Market Performance
  - 10.5.4 PUNCH Flybrid Business Overview
  - 10.5.5 PUNCH Flybrid Recent Developments
- 10.6 Revterra
  - 10.6.1 Revterra Basic Information
  - 10.6.2 Revterra Energy Storage Flywheel Product Overview
  - 10.6.3 Revterra Energy Storage Flywheel Product Market Performance
  - 10.6.4 Revterra Business Overview
  - 10.6.5 Revterra Recent Developments
- 10.7 Amber Kinetic
  - 10.7.1 Amber Kinetic Basic Information

- 10.7.2 Amber Kinetic Energy Storage Flywheel Product Overview
- 10.7.3 Amber Kinetic Energy Storage Flywheel Product Market Performance
- 10.7.4 Amber Kinetic Business Overview
- 10.7.5 Amber Kinetic Recent Developments
- 10.8 Shandong Tianrui Heavy Industry
  - 10.8.1 Shandong Tianrui Heavy Industry Basic Information
  - 10.8.2 Shandong Tianrui Heavy Industry Energy Storage Flywheel Product Overview
  - 10.8.3 Shandong Tianrui Heavy Industry Energy Storage Flywheel Product Market Performance
  - 10.8.4 Shandong Tianrui Heavy Industry Business Overview
  - 10.8.5 Shandong Tianrui Heavy Industry Recent Developments
- 10.9 Stornetic
  - 10.9.1 Stornetic Basic Information
  - 10.9.2 Stornetic Energy Storage Flywheel Product Overview
  - 10.9.3 Stornetic Energy Storage Flywheel Product Market Performance
  - 10.9.4 Stornetic Business Overview
  - 10.9.5 Stornetic Recent Developments
- 10.10 VYCON
  - 10.10.1 VYCON Basic Information
  - 10.10.2 VYCON Energy Storage Flywheel Product Overview
  - 10.10.3 VYCON Energy Storage Flywheel Product Market Performance
  - 10.10.4 VYCON Business Overview
  - 10.10.5 VYCON Recent Developments
- 10.11 Beijing Qifeng Energy Technology
  - 10.11.1 Beijing Qifeng Energy Technology Basic Information
  - 10.11.2 Beijing Qifeng Energy Technology Energy Storage Flywheel Product Overview
  - 10.11.3 Beijing Qifeng Energy Technology Energy Storage Flywheel Product Market Performance
  - 10.11.4 Beijing Qifeng Energy Technology Business Overview
  - 10.11.5 Beijing Qifeng Energy Technology Recent Developments
- 10.12 Huachi Dongneng
  - 10.12.1 Huachi Dongneng Basic Information
  - 10.12.2 Huachi Dongneng Energy Storage Flywheel Product Overview
  - 10.12.3 Huachi Dongneng Energy Storage Flywheel Product Market Performance
  - 10.12.4 Huachi Dongneng Business Overview
  - 10.12.5 Huachi Dongneng Recent Developments
- 10.13 Kinetic Traction Systems
  - 10.13.1 Kinetic Traction Systems Basic Information
  - 10.13.2 Kinetic Traction Systems Energy Storage Flywheel Product Overview

10.13.3 Kinetic Traction Systems Energy Storage Flywheel Product Market Performance

10.13.4 Kinetic Traction Systems Business Overview

10.13.5 Kinetic Traction Systems Recent Developments

10.14 BC New Energy

10.14.1 BC New Energy Basic Information

10.14.2 BC New Energy Energy Storage Flywheel Product Overview

10.14.3 BC New Energy Energy Storage Flywheel Product Market Performance

10.14.4 BC New Energy Business Overview

10.14.5 BC New Energy Recent Developments

## **11 ENERGY STORAGE FLYWHEEL MARKET FORECAST BY REGION**

11.1 Global Energy Storage Flywheel Market Size Forecast

11.2 Global Energy Storage Flywheel Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Energy Storage Flywheel Market Size Forecast by Country

11.2.3 Asia Pacific Energy Storage Flywheel Market Size Forecast by Region

11.2.4 South America Energy Storage Flywheel Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Energy Storage Flywheel by Country

## **12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)**

12.1 Global Energy Storage Flywheel Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Energy Storage Flywheel by Type (2026-2035)

12.1.2 Global Energy Storage Flywheel Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Energy Storage Flywheel by Type (2026-2035)

12.2 Global Energy Storage Flywheel Market Forecast by Application (2026-2035)

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

12.2.2 Global Energy Storage Flywheel Market Size (M USD) Forecast by Application (2026-2035)

## **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. Global Energy Storage Flywheel Market Size by Type (M USD)
- Table 4. Global Energy Storage Flywheel Market Size by Application
- Table 5. Energy Storage Flywheel Market Size Comparison by Region (M USD)
- Table 6. Global Energy Storage Flywheel Sales (K Units) by Manufacturers (2020-2025)
- Table 7. Global Energy Storage Flywheel Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Energy Storage Flywheel Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Energy Storage Flywheel Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Energy Storage Flywheel as of 2025)
- Table 11. Global Market Energy Storage Flywheel Average Price (USD/Unit) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Energy Storage Flywheel Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Energy Storage Flywheel Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Energy Storage Flywheel Sales by Type (K Units)
- Table 27. Global Energy Storage Flywheel Market Size by Type (M USD)
- Table 28. Global Energy Storage Flywheel Sales (K Units) by Type (2020-2025)

- Table 29. Global Energy Storage Flywheel Sales Market Share by Type (2020-2025)
- Table 30. Global Energy Storage Flywheel Market Size (M USD) by Type (2020-2025)
- Table 31. Global Energy Storage Flywheel Market Share by Type (2020-2025)
- Table 32. Global Energy Storage Flywheel Price (USD/Unit) by Type (2020-2025)
- Table 33. Global Energy Storage Flywheel Sales (K Units) by Application
- Table 34. Global Energy Storage Flywheel Market Size by Application
- Table 35. Global Energy Storage Flywheel Sales by Application (2020-2025) & (K Units)
- Table 36. Global Energy Storage Flywheel Sales Market Share by Application (2020-2025)
- Table 37. Global Energy Storage Flywheel Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Energy Storage Flywheel Market Share by Application (2020-2025)
- Table 39. Global Energy Storage Flywheel Sales Growth Rate by Application (2020-2025)
- Table 40. Global Energy Storage Flywheel Sales by Region (2020-2025) & (K Units)
- Table 41. Global Energy Storage Flywheel Sales Market Share by Region (2020-2025)
- Table 42. Global Energy Storage Flywheel Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Energy Storage Flywheel Market Size by Region (2020-2025)
- Table 44. North America Energy Storage Flywheel Sales by Country (2020-2025) & (K Units)
- Table 45. North America Energy Storage Flywheel Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Energy Storage Flywheel Sales by Country (2020-2025) & (K Units)
- Table 47. Europe Energy Storage Flywheel Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Energy Storage Flywheel Sales by Region (2020-2025) & (K Units)
- Table 49. Asia Pacific Energy Storage Flywheel Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Energy Storage Flywheel Sales by Country (2020-2025) & (K Units)
- Table 51. South America Energy Storage Flywheel Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Energy Storage Flywheel Sales by Region (2020-2025) & (K Units)
- Table 53. Middle East and Africa Energy Storage Flywheel Market Size by Region (2020-2025) & (M USD)
- Table 54. Global Energy Storage Flywheel Production (K Units) by Region(2020-2025)

- Table 55. Global Energy Storage Flywheel Revenue (US\$ Million) by Region (2020-2025)
- Table 56. Global Energy Storage Flywheel Revenue Market Share by Region (2020-2025)
- Table 57. Global Energy Storage Flywheel Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 58. North America Energy Storage Flywheel Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 59. Europe Energy Storage Flywheel Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 60. Japan Energy Storage Flywheel Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 61. China Energy Storage Flywheel Production (K Units), Revenue (US\$ Million), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 62. Piller Basic Information
- Table 63. Piller Energy Storage Flywheel Product Overview
- Table 64. Piller Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 65. Piller Business Overview
- Table 66. Piller SWOT Analysis
- Table 67. Piller Recent Developments
- Table 68. Calnetix Technologies Basic Information
- Table 69. Calnetix Technologies Energy Storage Flywheel Product Overview
- Table 70. Calnetix Technologies Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 71. Calnetix Technologies Business Overview
- Table 72. Calnetix Technologies SWOT Analysis
- Table 73. Calnetix Technologies Recent Developments
- Table 74. ABB Basic Information
- Table 75. ABB Energy Storage Flywheel Product Overview
- Table 76. ABB Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 77. ABB Business Overview
- Table 78. ABB SWOT Analysis
- Table 79. ABB Recent Developments
- Table 80. POWERTHRU Basic Information
- Table 81. POWERTHRU Energy Storage Flywheel Product Overview
- Table 82. POWERTHRU Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)

- Table 83. POWERTHRU Business Overview
- Table 84. POWERTHRU Recent Developments
- Table 85. PUNCH Flybrid Basic Information
- Table 86. PUNCH Flybrid Energy Storage Flywheel Product Overview
- Table 87. PUNCH Flybrid Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 88. PUNCH Flybrid Business Overview
- Table 89. PUNCH Flybrid Recent Developments
- Table 90. Revterra Basic Information
- Table 91. Revterra Energy Storage Flywheel Product Overview
- Table 92. Revterra Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 93. Revterra Business Overview
- Table 94. Revterra Recent Developments
- Table 95. Amber Kinetic Basic Information
- Table 96. Amber Kinetic Energy Storage Flywheel Product Overview
- Table 97. Amber Kinetic Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 98. Amber Kinetic Business Overview
- Table 99. Amber Kinetic Recent Developments
- Table 100. Shandong Tianrui Heavy Industry Basic Information
- Table 101. Shandong Tianrui Heavy Industry Energy Storage Flywheel Product Overview
- Table 102. Shandong Tianrui Heavy Industry Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 103. Shandong Tianrui Heavy Industry Business Overview
- Table 104. Shandong Tianrui Heavy Industry Recent Developments
- Table 105. Stornetic Basic Information
- Table 106. Stornetic Energy Storage Flywheel Product Overview
- Table 107. Stornetic Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 108. Stornetic Business Overview
- Table 109. Stornetic Recent Developments
- Table 110. VYCON Basic Information
- Table 111. VYCON Energy Storage Flywheel Product Overview
- Table 112. VYCON Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 113. VYCON Business Overview
- Table 114. VYCON Recent Developments

- Table 115. Beijing Qifeng Energy Technology Basic Information
- Table 116. Beijing Qifeng Energy Technology Energy Storage Flywheel Product Overview
- Table 117. Beijing Qifeng Energy Technology Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 118. Beijing Qifeng Energy Technology Business Overview
- Table 119. Beijing Qifeng Energy Technology Recent Developments
- Table 120. Huachi Dongneng Basic Information
- Table 121. Huachi Dongneng Energy Storage Flywheel Product Overview
- Table 122. Huachi Dongneng Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 123. Huachi Dongneng Business Overview
- Table 124. Huachi Dongneng Recent Developments
- Table 125. Kinetic Traction Systems Basic Information
- Table 126. Kinetic Traction Systems Energy Storage Flywheel Product Overview
- Table 127. Kinetic Traction Systems Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 128. Kinetic Traction Systems Business Overview
- Table 129. Kinetic Traction Systems Recent Developments
- Table 130. BC New Energy Basic Information
- Table 131. BC New Energy Energy Storage Flywheel Product Overview
- Table 132. BC New Energy Energy Storage Flywheel Sales (K Units), Revenue (M USD), Price (USD/Unit) and Gross Margin (2020-2025)
- Table 133. BC New Energy Business Overview
- Table 134. BC New Energy Recent Developments
- Table 135. Global Energy Storage Flywheel Sales Forecast by Region (2026-2035) & (K Units)
- Table 136. Global Energy Storage Flywheel Market Size Forecast by Region (2026-2035) & (M USD)
- Table 137. North America Energy Storage Flywheel Sales Forecast by Country (2026-2035) & (K Units)
- Table 138. North America Energy Storage Flywheel Market Size Forecast by Country (2026-2035) & (M USD)
- Table 139. Europe Energy Storage Flywheel Sales Forecast by Country (2026-2035) & (K Units)
- Table 140. Europe Energy Storage Flywheel Market Size Forecast by Country (2026-2035) & (M USD)
- Table 141. Asia Pacific Energy Storage Flywheel Sales Forecast by Region (2026-2035) & (K Units)

Table 142. Asia Pacific Energy Storage Flywheel Market Size Forecast by Region (2026-2035) & (M USD)

Table 143. South America Energy Storage Flywheel Sales Forecast by Country (2026-2035) & (K Units)

Table 144. South America Energy Storage Flywheel Market Size Forecast by Country (2026-2035) & (M USD)

Table 145. Middle East and Africa Energy Storage Flywheel Sales Forecast by Country (2026-2035) & (Units)

Table 146. Middle East and Africa Energy Storage Flywheel Market Size Forecast by Country (2026-2035) & (M USD)

Table 147. Global Energy Storage Flywheel Sales Forecast by Type (2026-2035) & (K Units)

Table 148. Global Energy Storage Flywheel Market Size Forecast by Type (2026-2035) & (M USD)

Table 149. Global Energy Storage Flywheel Price Forecast by Type (2026-2035) & (USD/Unit)

Table 150. Global Energy Storage Flywheel Sales (K Units) Forecast by Application (2026-2035)

Table 151. Global Energy Storage Flywheel Market Size Forecast by Application (2026-2035) & (M USD)

## List Of Figures

### LIST OF FIGURES

- Figure 1. Product Picture of Energy Storage Flywheel
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Energy Storage Flywheel Market Size (M USD), 2025-2035
- Figure 5. Global Energy Storage Flywheel Market Size (M USD) (2020-2035)
- Figure 6. Global Energy Storage Flywheel Sales (K Units) & (2020-2035)
- 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. Energy Storage Flywheel Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Energy Storage Flywheel Product Life Cycle
- Figure 13. Energy Storage Flywheel Sales Share by Manufacturers in 2025
- Figure 14. Global Energy Storage Flywheel Revenue Share by Manufacturers in 2025
- Figure 15. Energy Storage Flywheel Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Energy Storage Flywheel Average Price (USD/Unit) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Energy Storage Flywheel Revenue in 2025
- Figure 18. Industry Chain Map of Energy Storage Flywheel
- Figure 19. Global Energy Storage Flywheel Market PEST Analysis
- Figure 20. Global Energy Storage Flywheel 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 Energy Storage Flywheel Market Share by Type
- Figure 27. Sales Market Share of Energy Storage Flywheel by Type (2020-2025)
- Figure 28. Sales Market Share of Energy Storage Flywheel by Type in 2025
- Figure 29. Market Share of Energy Storage Flywheel by Type (2020-2025)
- Figure 30. Market Share of Energy Storage Flywheel by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 32. Global Energy Storage Flywheel Market Share by Application

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

Figure 34. Global Energy Storage Flywheel Sales Market Share by Application in 2025

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

Figure 36. Global Energy Storage Flywheel Market Share by Application in 2025

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 52. Europe Energy Storage Flywheel Sales Market Share by Country in 2024

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Figure 72. South Korea Energy Storage Flywheel Sales and Growth Rate (2020-2025) & (K Units)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Units)

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

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

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

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

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

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

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

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

Figure 107. Global Energy Storage Flywheel Sales Forecast by Volume (2020-2035) & (K Units)

Figure 108. Global Energy Storage Flywheel Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Energy Storage Flywheel Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Energy Storage Flywheel Market Share Forecast by Type (2026-2035)

Figure 111. Global Energy Storage Flywheel Sales Forecast by Application (2026-2035)

Figure 112. Global Energy Storage Flywheel Market Share Forecast by Application (2026-2035)

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