

Global Energy Storage Flywheel Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Energy Storage Flywheel market size was valued at US\$ 242 million in 2024 and is forecast to a readjusted size of USD 448 million by 2031 with a CAGR of 9.3% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

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.

This report is a detailed and comprehensive analysis for global Energy Storage Flywheel market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets.

Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Energy Storage Flywheel market size and forecasts, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Energy Storage Flywheel market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Energy Storage Flywheel market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Units), and average selling prices (US\$/Unit), 2020-2031

Global Energy Storage Flywheel market shares of main players, shipments in revenue (\$ Million), sales quantity (Units), and ASP (US\$/Unit), 2020-2025

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for Energy Storage Flywheel
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global Energy Storage Flywheel market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Piller, Calnetix Technologies, ABB, POWERTHRU, PUNCH Flybrid, Revterra, Amber Kinetic, Shandong Tianrui Heavy Industry, Stornetic, VYCON, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Energy Storage Flywheel market is split by Type and by Application. For the period 2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Below 500 MJ

500-1500 MJ

Above 1500 MJ

Market segment by Application

Power Grid

Rail Transit

UPS Uninterruptible Power Supply

Others

Major players covered

Piller

Calnetix Technologies

ABB

POWERTHRU

PUNCH Flybrid

Revtterra

Amber Kinetic

Shandong Tianrui Heavy Industry

Stornetic

VYCON

Beijing Qifeng Energy Technology

Huachi Dongneng

Kinetic Traction Systems

BC New Energy

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

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

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

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

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

Chapter 2, to profile the top manufacturers of Energy Storage Flywheel, with price, sales quantity, revenue, and global market share of Energy Storage Flywheel from 2020 to 2025.

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

Chapter 4, the Energy Storage Flywheel breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025. and Energy Storage Flywheel market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Energy Storage Flywheel.

Chapter 14 and 15, to describe Energy Storage Flywheel sales channel, distributors, customers, research findings and conclusion.

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