

Flywheel Energy Storage System Market Size, Share & Trends Analysis Report By Application (UPS, Distributed Energy Generation, Transport, Data Centers), By Region, And Segment Forecasts, 2022 - 2030

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Abstracts

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Flywheel Energy Storage System Market Growth & Trends

The global flywheel energy storage system market size is expected to reach USD 737.99 million, registering a CAGR of 9.8% during the forecast period from 2022 to 2030, according to a new report by Grand View Research, Inc. The rise in climate change issues and environmental concerns led various countries, around the world, to reduce their carbon footprint for power generation and transportation sector and to opt for cleaner and green energy technologies owing to the demand for flywheel energy storage is growing in its specific application segments.

The data center is the highest penetration application segment in the flywheel energy storage market due to the growing demand for energy storage devices, in order to overcome the risk of interruptions at the main power supply. UPS, with the second-highest penetration, is one of the most important application areas of flywheel energy storage systems. The growing demand for uninterrupted power supply from industries across various sectors is driving the market for UPS.

During the forecast period, the penetration of the distributed energy generation segment is projected to grow at the highest rate. This method of power generation helps in cost reduction as the power is generated at the point of consumption. Besides, the

generation of power on-site eliminates inefficiencies and complexities associated with transmission and distribution.

The North America region is leading the market in 2021. The North American flywheel energy storage market is characterized by growing demand for UPS systems, to maintain a continuous supply of power for commercial and industrial applications.

Flywheel Energy Storage System Market Report Highlights

In terms of revenue, the others segment of flywheel wheel energy storage system accounted for a prominent share in the market during 2021 and is further expected to witness steady growth during the forecast period

As of 2021, the Asia Pacific accounted for about 4.66% revenue share in the overall market. Asia Pacific region is prone to frequent power cuts, and energy storage systems in applications such as UPS and data centers are of utmost importance here, in both, the commercial as well as residential sectors

Germany is known as the automobile and engineering hub of Europe. Some of the major automobile manufacturers such as Volkswagen, Mercedes Benz, and Porsche are headquartered in this country. Thus, the growing automobile industry is one of the biggest drivers of the flywheel energy storage market in Germany

Contents

CHAPTER 1. METHODOLOGY AND SCOPE

- 1.1. Market segmentation & scope
- 1.2. Information procurement
 - 1.2.1. Purchased database
 - 1.2.2. GVR's internal database
 - 1.2.3. Secondary sources & third-party perspectives
 - 1.2.4. Primary research
- 1.3. Information analysis
 - 1.3.1. Data analysis models
- 1.4. Market formulation & data visualization
- 1.5. Data validation & publishing

CHAPTER 2. EXECUTIVE SUMMARY

CHAPTER 3. FLYWHEEL ENERGY STORAGE SYSTEM MARKET VARIABLES, TRENDS & SCOPE

- 3.1. Market Size and Growth Prospects
- 3.2. Industry Value Chain Analysis
- 3.3. Raw Material Trends
- 3.4. Market Dynamics
 - 3.4.1. Market Driver Analysis
 - 3.4.2. Market Restraint Analysis
 - 3.4.3. Opportunity Assessment
- 3.5. Penetration & Growth Prospect Mapping
- 3.6. Regulatory Framework
- 3.7. Business Environment Analysis Tools
 - 3.7.1. Industry Analysis - Porter's Five Forces Analysis
 - 3.7.2. PESTEL Analysis
- 3.8. Impact of Corona Virus on Flywheel Energy Storage System Market

CHAPTER 4. FLYWHEEL ENERGY STORAGE SYSTEM MARKET APPLICATION OUTLOOK

- 4.1. Market Size Estimates & Forecasts and Trend Analysis, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

4.2. UPS

4.2.1. Market estimates and forecasts by region, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

4.3. Data Center

4.3.1. Market estimates and forecasts by region, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

4.4. Distributed Energy Generation

4.4.1. Market estimates and forecasts by region, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

4.5. Transport

4.5.1. Market estimates and forecasts by region, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

4.6. Others

4.6.1. Market estimates and forecasts by region, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

CHAPTER 5. FLYWHEEL ENERGY STORAGE SYSTEM REGIONAL OUTLOOK

5.1. Flywheel Energy Storage System Market, By Region, 2021& 2030

5.2. North America

5.2.1. Market estimates and forecasts by region, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

5.2.2. U.S.

5.2.2.1. Market estimates and forecasts by Application, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

5.3. Europe

5.3.1. Market estimates and forecasts by Application, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

5.3.2. Germany

5.3.2.1. Market estimates and forecasts by Application, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

5.3.3. UK

5.3.3.1. Market estimates and forecasts by Application, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

5.4. Asia Pacific

5.4.1. Market estimates and forecasts by Application, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

5.4.2. South Korea

5.4.2.1. Market estimates and forecasts by Application, 2019 - 2030 (Power Capacity,

kW; Revenue, USD Million)

5.4.3. Japan

5.4.3.1. Market estimates and forecasts by Application, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

5.5. Central and South America

5.5.1. Market estimates and forecasts by Application, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

5.5.2. Brazil

5.5.2.1. Market estimates and forecasts by Application, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

5.6. MEA

5.6.1. Market estimates and forecasts by Application, 2019 - 2030 (Power Capacity, kW; Revenue, USD Million)

CHAPTER 6. COMPETITIVE LANDSCAPE

6.1. Langley Holdings plc

6.1.1. Company overview

6.1.2. Financial performance

6.1.3. Product benchmarking

6.1.4. Recent developments

6.2. Amber Kinetics, Inc.

6.2.1. Company overview

6.2.2. Financial performance

6.2.3. Product benchmarking

6.2.4. Recent developments

6.3. POWERTHRU

6.3.1. Company overview

6.3.2. Financial performance

6.3.3. Product benchmarking

6.3.4. Recent developments

6.4. STORNETIC GmbH

6.4.1. Company overview

6.4.2. Financial performance

6.4.3. Product benchmarking

6.4.4. Recent Developments

6.5. Energiestro

6.5.1. Company Overview

6.5.2. Financial Performance

- 6.5.3. Product benchmarking
- 6.5.4. Recent developments
- 6.6. VYCON, Inc.
 - 6.6.1. Company overview
 - 6.6.2. Financial performance
 - 6.6.3. Product benchmarking
 - 6.6.4. Recent developments
- 6.7. Bc New Energy (Tianjin) Co., Ltd. (BNE)
 - 6.7.1. Company Overview
 - 6.7.2. Financial Performance
 - 6.7.3. Product Benchmarking
 - 6.7.4. Recent Developments
- 6.8. PUNCH Flybrid
 - 6.8.1. Company Overview
 - 6.8.2. Financial Performance
 - 6.8.3. Product Benchmarking
 - 6.8.4. Recent Developments
- 6.9. Kinetic Traction Systems, Inc.
 - 6.9.1. Company overview
 - 6.9.2. Financial performance
 - 6.9.3. Product benchmarking
 - 6.9.4. Recent developments
- 6.10. Beacon Power, LLC
 - 6.10.1. Company overview
 - 6.10.2. Financial performance
 - 6.10.3. Product benchmarking
 - 6.10.4. Recent developments

List Of Tables

LIST OF TABLES

Table 1 Global Flywheel Energy Storage System Market, 2019 - 2030 (kW, USD Million)

Table 2 Global Flywheel Energy Storage System Market estimates and forecasts by Application, (kW, USD Million), 2019 - 2030

Table 3 Flywheel Energy Storage System - Key Market Driver

Table 4 Flywheel Energy Storage System - Key Market Restraint

Table 5 North America Flywheel Energy Storage System Market by Application, 2019 - 2030 (kW, USD Million)

Table 6 U.S. Flywheel Energy Storage System market by Capacity, 2019 - 2030 (kW, USD Million)

Table 7 Europe Flywheel Energy Storage System Market by Application, 2019 - 2030 (kW, USD Million)

Table 8 UK Flywheel Energy Storage System Market by Application, 2019 - 2030 (kW, USD Million)

Table 9 Germany Flywheel Energy Storage System Market by Application, 2019 - 2030 (kW, USD Million)

Table 10 Asia Pacific Flywheel Energy Storage System Market by Application, 2019 - 2030 (kW, USD Million)

Table 11 Japan Flywheel Energy Storage System Market by Application, 2019 - 2030 (kW, USD Million)

Table 12 South Korea Flywheel Energy Storage System Market by Application, 2019 - 2030 (kW, USD Million)

Table 13 CSA Flywheel Energy Storage System Market by Application, 2019 - 2030 (kW, USD Million)

Table 14 Brazil Flywheel Energy Storage System Market by Application, 2019 - 2030 (kW, USD Million)

Table 15 MEA Flywheel Energy Storage System Market by Application, 2019 - 2030 (kW, USD Million)

List Of Figures

LIST OF FIGURES

Fig. 1 Market segmentation & scope

Fig. 2 Flywheel Energy Storage System market size and growth prospects

Fig. 3 Flywheel Energy Storage System Value chain analysis

Fig. 4 Market Dynamics

Fig. 5 Flywheel Energy Storage System market - Penetration & Growth Prospect Mapping

Fig. 6 Porter's Five Forces Analysis

Fig. 7 PEST Analysis for Flywheel Energy Storage System Industry

Fig. 8 Flywheel Energy Storage System Market: Application Movement Analysis 2021 & 2030

Fig. 9 Flywheel Energy Storage System Market: Regional Movement Analysis 2021 & 2030

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