

Global Space Photovoltaics Market Growth (Status and Outlook) 2024-2030

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Abstracts

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Space photovoltaics refers to the technology and systems used to generate electrical power from sunlight for use in space applications, such as satellites, space stations, and spacecraft. These systems utilize highly efficient solar cells made from materials like gallium arsenide (GaAs) and multi-junction cells, which are capable of converting a higher percentage of sunlight into electricity compared to terrestrial solar panels. Space photovoltaics must withstand harsh conditions, including extreme temperatures, radiation, and microgravity. They are essential for providing reliable and sustainable power for various space missions, enabling continuous operation of onboard instruments, communication systems, and life-support systems in the vacuum of space.

The global Space Photovoltaics market size is projected to grow from US\$ 552 million in 2024 to US\$ 888 million in 2030; it is expected to grow at a CAGR of 8.2% from 2024 to 2030.

LPI (LP Information)' newest research report, the "Space Photovoltaics Industry Forecast" looks at past sales and reviews total world Space Photovoltaics sales in 2022, providing a comprehensive analysis by region and market sector of projected Space Photovoltaics sales for 2023 through 2029. With Space Photovoltaics sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Space Photovoltaics industry.

This Insight Report provides a comprehensive analysis of the global Space Photovoltaics landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity.

This report also analyses the strategies of leading global companies with a focus on Space Photovoltaics portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Space Photovoltaics market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Space Photovoltaics and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Space Photovoltaics.

United States market for Space Photovoltaics is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

China market for Space Photovoltaics is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Europe market for Space Photovoltaics is estimated to increase from US\$ million in 2023 to US\$ million by 2030, at a CAGR of % from 2024 through 2030.

Global key Space Photovoltaics players cover Spectrolab (Boeing), Endurosat, DHV Technology, Sparkwing (Airbus), AAC Clyde Space, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2023.

This report presents a comprehensive overview, market shares, and growth opportunities of Space Photovoltaics market by product type, application, key players and key regions and countries.

Segmentation by Type:

Rigid Solar Panels

Semi-rigid Solar Panels

Flexible Solar Panels

Segmentation by Application:

Government and Defense

Commercial

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

Spectrolab (Boeing)

Endurosat

DHV Technology

Sparkwing (Airbus)

AAC Clyde Space

Redwire Space

NPC Spacemind

SpaceTech

Rocket Lab

SolarSpace

Northrop Grumman

CESI

AZUR SPACE

Lockheed Martin

Pumpkin Space Systems

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Space Photovoltaics Market Size 2019-2030
 - 2.1.2 Space Photovoltaics Market Size CAGR by Region (2019 VS 2023 VS 2030)
 - 2.1.3 World Current & Future Analysis for Space Photovoltaics by Country/Region, 2019, 2023 & 2030
- 2.2 Space Photovoltaics Segment by Type
 - 2.2.1 Rigid Solar Panels
 - 2.2.2 Semi-rigid Solar Panels
 - 2.2.3 Flexible Solar Panels
- 2.3 Space Photovoltaics Market Size by Type
 - 2.3.1 Space Photovoltaics Market Size CAGR by Type (2019 VS 2023 VS 2030)
 - 2.3.2 Global Space Photovoltaics Market Size Market Share by Type (2019-2024)
- 2.4 Space Photovoltaics Segment by Application
 - 2.4.1 Government and Defense
 - 2.4.2 Commercial
- 2.5 Space Photovoltaics Market Size by Application
 - 2.5.1 Space Photovoltaics Market Size CAGR by Application (2019 VS 2023 VS 2030)
 - 2.5.2 Global Space Photovoltaics Market Size Market Share by Application (2019-2024)

3 SPACE PHOTOVOLTAICS MARKET SIZE BY PLAYER

- 3.1 Space Photovoltaics Market Size Market Share by Player
 - 3.1.1 Global Space Photovoltaics Revenue by Player (2019-2024)

- 3.1.2 Global Space Photovoltaics Revenue Market Share by Player (2019-2024)
- 3.2 Global Space Photovoltaics Key Players Head office and Products Offered
- 3.3 Market Concentration Rate Analysis
 - 3.3.1 Competition Landscape Analysis
 - 3.3.2 Concentration Ratio (CR3, CR5 and CR10) & (2022-2024)
- 3.4 New Products and Potential Entrants
- 3.5 Mergers & Acquisitions, Expansion

4 SPACE PHOTOVOLTAICS BY REGION

- 4.1 Space Photovoltaics Market Size by Region (2019-2024)
- 4.2 Global Space Photovoltaics Annual Revenue by Country/Region (2019-2024)
- 4.3 Americas Space Photovoltaics Market Size Growth (2019-2024)
- 4.4 APAC Space Photovoltaics Market Size Growth (2019-2024)
- 4.5 Europe Space Photovoltaics Market Size Growth (2019-2024)
- 4.6 Middle East & Africa Space Photovoltaics Market Size Growth (2019-2024)

5 AMERICAS

- 5.1 Americas Space Photovoltaics Market Size by Country (2019-2024)
- 5.2 Americas Space Photovoltaics Market Size by Type (2019-2024)
- 5.3 Americas Space Photovoltaics Market Size by Application (2019-2024)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Space Photovoltaics Market Size by Region (2019-2024)
- 6.2 APAC Space Photovoltaics Market Size by Type (2019-2024)
- 6.3 APAC Space Photovoltaics Market Size by Application (2019-2024)
- 6.4 China
- 6.5 Japan
- 6.6 South Korea
- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia

7 EUROPE

- 7.1 Europe Space Photovoltaics Market Size by Country (2019-2024)
- 7.2 Europe Space Photovoltaics Market Size by Type (2019-2024)
- 7.3 Europe Space Photovoltaics Market Size by Application (2019-2024)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Space Photovoltaics by Region (2019-2024)
- 8.2 Middle East & Africa Space Photovoltaics Market Size by Type (2019-2024)
- 8.3 Middle East & Africa Space Photovoltaics Market Size by Application (2019-2024)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 GLOBAL SPACE PHOTOVOLTAICS MARKET FORECAST

- 10.1 Global Space Photovoltaics Forecast by Region (2025-2030)
 - 10.1.1 Global Space Photovoltaics Forecast by Region (2025-2030)
 - 10.1.2 Americas Space Photovoltaics Forecast
 - 10.1.3 APAC Space Photovoltaics Forecast
 - 10.1.4 Europe Space Photovoltaics Forecast
 - 10.1.5 Middle East & Africa Space Photovoltaics Forecast
- 10.2 Americas Space Photovoltaics Forecast by Country (2025-2030)
 - 10.2.1 United States Market Space Photovoltaics Forecast
 - 10.2.2 Canada Market Space Photovoltaics Forecast

- 10.2.3 Mexico Market Space Photovoltaics Forecast
- 10.2.4 Brazil Market Space Photovoltaics Forecast
- 10.3 APAC Space Photovoltaics Forecast by Region (2025-2030)
 - 10.3.1 China Space Photovoltaics Market Forecast
 - 10.3.2 Japan Market Space Photovoltaics Forecast
 - 10.3.3 Korea Market Space Photovoltaics Forecast
 - 10.3.4 Southeast Asia Market Space Photovoltaics Forecast
 - 10.3.5 India Market Space Photovoltaics Forecast
 - 10.3.6 Australia Market Space Photovoltaics Forecast
- 10.4 Europe Space Photovoltaics Forecast by Country (2025-2030)
 - 10.4.1 Germany Market Space Photovoltaics Forecast
 - 10.4.2 France Market Space Photovoltaics Forecast
 - 10.4.3 UK Market Space Photovoltaics Forecast
 - 10.4.4 Italy Market Space Photovoltaics Forecast
 - 10.4.5 Russia Market Space Photovoltaics Forecast
- 10.5 Middle East & Africa Space Photovoltaics Forecast by Region (2025-2030)
 - 10.5.1 Egypt Market Space Photovoltaics Forecast
 - 10.5.2 South Africa Market Space Photovoltaics Forecast
 - 10.5.3 Israel Market Space Photovoltaics Forecast
 - 10.5.4 Turkey Market Space Photovoltaics Forecast
- 10.6 Global Space Photovoltaics Forecast by Type (2025-2030)
- 10.7 Global Space Photovoltaics Forecast by Application (2025-2030)
 - 10.7.1 GCC Countries Market Space Photovoltaics Forecast

11 KEY PLAYERS ANALYSIS

- 11.1 Spectrolab (Boeing)
 - 11.1.1 Spectrolab (Boeing) Company Information
 - 11.1.2 Spectrolab (Boeing) Space Photovoltaics Product Offered
 - 11.1.3 Spectrolab (Boeing) Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)
 - 11.1.4 Spectrolab (Boeing) Main Business Overview
 - 11.1.5 Spectrolab (Boeing) Latest Developments
- 11.2 Endurosat
 - 11.2.1 Endurosat Company Information
 - 11.2.2 Endurosat Space Photovoltaics Product Offered
 - 11.2.3 Endurosat Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)
 - 11.2.4 Endurosat Main Business Overview

- 11.2.5 Endurosat Latest Developments
- 11.3 DHV Technology
 - 11.3.1 DHV Technology Company Information
 - 11.3.2 DHV Technology Space Photovoltaics Product Offered
 - 11.3.3 DHV Technology Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)
 - 11.3.4 DHV Technology Main Business Overview
 - 11.3.5 DHV Technology Latest Developments
- 11.4 Sparkwing (Airbus)
 - 11.4.1 Sparkwing (Airbus) Company Information
 - 11.4.2 Sparkwing (Airbus) Space Photovoltaics Product Offered
 - 11.4.3 Sparkwing (Airbus) Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)
 - 11.4.4 Sparkwing (Airbus) Main Business Overview
 - 11.4.5 Sparkwing (Airbus) Latest Developments
- 11.5 AAC Clyde Space
 - 11.5.1 AAC Clyde Space Company Information
 - 11.5.2 AAC Clyde Space Space Photovoltaics Product Offered
 - 11.5.3 AAC Clyde Space Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)
 - 11.5.4 AAC Clyde Space Main Business Overview
 - 11.5.5 AAC Clyde Space Latest Developments
- 11.6 Redwire Space
 - 11.6.1 Redwire Space Company Information
 - 11.6.2 Redwire Space Space Photovoltaics Product Offered
 - 11.6.3 Redwire Space Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)
 - 11.6.4 Redwire Space Main Business Overview
 - 11.6.5 Redwire Space Latest Developments
- 11.7 NPC Spacemind
 - 11.7.1 NPC Spacemind Company Information
 - 11.7.2 NPC Spacemind Space Photovoltaics Product Offered
 - 11.7.3 NPC Spacemind Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)
 - 11.7.4 NPC Spacemind Main Business Overview
 - 11.7.5 NPC Spacemind Latest Developments
- 11.8 SpaceTech
 - 11.8.1 SpaceTech Company Information
 - 11.8.2 SpaceTech Space Photovoltaics Product Offered

11.8.3 SpaceTech Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)

11.8.4 SpaceTech Main Business Overview

11.8.5 SpaceTech Latest Developments

11.9 Rocket Lab

11.9.1 Rocket Lab Company Information

11.9.2 Rocket Lab Space Photovoltaics Product Offered

11.9.3 Rocket Lab Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)

11.9.4 Rocket Lab Main Business Overview

11.9.5 Rocket Lab Latest Developments

11.10 SolarSpace

11.10.1 SolarSpace Company Information

11.10.2 SolarSpace Space Photovoltaics Product Offered

11.10.3 SolarSpace Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)

11.10.4 SolarSpace Main Business Overview

11.10.5 SolarSpace Latest Developments

11.11 Northrop Grumman

11.11.1 Northrop Grumman Company Information

11.11.2 Northrop Grumman Space Photovoltaics Product Offered

11.11.3 Northrop Grumman Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)

11.11.4 Northrop Grumman Main Business Overview

11.11.5 Northrop Grumman Latest Developments

11.12 CESI

11.12.1 CESI Company Information

11.12.2 CESI Space Photovoltaics Product Offered

11.12.3 CESI Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)

11.12.4 CESI Main Business Overview

11.12.5 CESI Latest Developments

11.13 AZUR SPACE

11.13.1 AZUR SPACE Company Information

11.13.2 AZUR SPACE Space Photovoltaics Product Offered

11.13.3 AZUR SPACE Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)

11.13.4 AZUR SPACE Main Business Overview

11.13.5 AZUR SPACE Latest Developments

11.14 Lockheed Martin

11.14.1 Lockheed Martin Company Information

11.14.2 Lockheed Martin Space Photovoltaics Product Offered

11.14.3 Lockheed Martin Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)

11.14.4 Lockheed Martin Main Business Overview

11.14.5 Lockheed Martin Latest Developments

11.15 Pumpkin Space Systems

11.15.1 Pumpkin Space Systems Company Information

11.15.2 Pumpkin Space Systems Space Photovoltaics Product Offered

11.15.3 Pumpkin Space Systems Space Photovoltaics Revenue, Gross Margin and Market Share (2019-2024)

11.15.4 Pumpkin Space Systems Main Business Overview

11.15.5 Pumpkin Space Systems Latest Developments

12 RESEARCH FINDINGS AND CONCLUSION

br>

List Of Tables

LIST OF TABLES

Table 1. Energy Storage Flywheel Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. Energy Storage Flywheel Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)

Table 3. Major Players of Below 500 MJ

Table 4. Major Players of 500-1500 MJ

Table 5. Major Players of Above 1500 MJ

Table 6. Global Energy Storage Flywheel Sales by Type (2019-2024) & (Units)

Table 7. Global Energy Storage Flywheel Sales Market Share by Type (2019-2024)

Table 8. Global Energy Storage Flywheel Revenue by Type (2019-2024) & (\$ million)

Table 9. Global Energy Storage Flywheel Revenue Market Share by Type (2019-2024)

Table 10. Global Energy Storage Flywheel Sale Price by Type (2019-2024) & (US\$/Unit)

Table 11. Global Energy Storage Flywheel Sale by Application (2019-2024) & (Units)

Table 12. Global Energy Storage Flywheel Sale Market Share by Application (2019-2024)

Table 13. Global Energy Storage Flywheel Revenue by Application (2019-2024) & (\$ million)

Table 14. Global Energy Storage Flywheel Revenue Market Share by Application (2019-2024)

Table 15. Global Energy Storage Flywheel Sale Price by Application (2019-2024) & (US\$/Unit)

Table 16. Global Energy Storage Flywheel Sales by Company (2019-2024) & (Units)

Table 17. Global Energy Storage Flywheel Sales Market Share by Company (2019-2024)

Table 18. Global Energy Storage Flywheel Revenue by Company (2019-2024) & (\$ millions)

Table 19. Global Energy Storage Flywheel Revenue Market Share by Company (2019-2024)

Table 20. Global Energy Storage Flywheel Sale Price by Company (2019-2024) & (US\$/Unit)

Table 21. Key Manufacturers Energy Storage Flywheel Producing Area Distribution and Sales Area

Table 22. Players Energy Storage Flywheel Products Offered

Table 23. Energy Storage Flywheel Concentration Ratio (CR3, CR5 and CR10) &

(2019-2024)

Table 24. New Products and Potential Entrants

Table 25. Market M&A Activity & Strategy

Table 26. Global Energy Storage Flywheel Sales by Geographic Region (2019-2024) & (Units)

Table 27. Global Energy Storage Flywheel Sales Market Share Geographic Region (2019-2024)

Table 28. Global Energy Storage Flywheel Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 29. Global Energy Storage Flywheel Revenue Market Share by Geographic Region (2019-2024)

Table 30. Global Energy Storage Flywheel Sales by Country/Region (2019-2024) & (Units)

Table 31. Global Energy Storage Flywheel Sales Market Share by Country/Region (2019-2024)

Table 32. Global Energy Storage Flywheel Revenue by Country/Region (2019-2024) & (\$ millions)

Table 33. Global Energy Storage Flywheel Revenue Market Share by Country/Region (2019-2024)

Table 34. Americas Energy Storage Flywheel Sales by Country (2019-2024) & (Units)

Table 35. Americas Energy Storage Flywheel Sales Market Share by Country (2019-2024)

Table 36. Americas Energy Storage Flywheel Revenue by Country (2019-2024) & (\$ millions)

Table 37. Americas Energy Storage Flywheel Sales by Type (2019-2024) & (Units)

Table 38. Americas Energy Storage Flywheel Sales by Application (2019-2024) & (Units)

Table 39. APAC Energy Storage Flywheel Sales by Region (2019-2024) & (Units)

Table 40. APAC Energy Storage Flywheel Sales Market Share by Region (2019-2024)

Table 41. APAC Energy Storage Flywheel Revenue by Region (2019-2024) & (\$ millions)

Table 42. APAC Energy Storage Flywheel Sales by Type (2019-2024) & (Units)

Table 43. APAC Energy Storage Flywheel Sales by Application (2019-2024) & (Units)

Table 44. Europe Energy Storage Flywheel Sales by Country (2019-2024) & (Units)

Table 45. Europe Energy Storage Flywheel Revenue by Country (2019-2024) & (\$ millions)

Table 46. Europe Energy Storage Flywheel Sales by Type (2019-2024) & (Units)

Table 47. Europe Energy Storage Flywheel Sales by Application (2019-2024) & (Units)

Table 48. Middle East & Africa Energy Storage Flywheel Sales by Country (2019-2024)

& (Units)

Table 49. Middle East & Africa Energy Storage Flywheel Revenue Market Share by Country (2019-2024)

Table 50. Middle East & Africa Energy Storage Flywheel Sales by Type (2019-2024) & (Units)

Table 51. Middle East & Africa Energy Storage Flywheel Sales by Application (2019-2024) & (Units)

Table 52. Key Market Drivers & Growth Opportunities of Energy Storage Flywheel

Table 53. Key Market Challenges & Risks of Energy Storage Flywheel

Table 54. Key Industry Trends of Energy Storage Flywheel

Table 55. Energy Storage Flywheel Raw Material

Table 56. Key Suppliers of Raw Materials

Table 57. Energy Storage Flywheel Distributors List

Table 58. Energy Storage Flywheel Customer List

Table 59. Global Energy Storage Flywheel Sales Forecast by Region (2025-2030) & (Units)

Table 60. Global Energy Storage Flywheel Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 61. Americas Energy Storage Flywheel Sales Forecast by Country (2025-2030) & (Units)

Table 62. Americas Energy Storage Flywheel Annual Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 63. APAC Energy Storage Flywheel Sales Forecast by Region (2025-2030) & (Units)

Table 64. APAC Energy Storage Flywheel Annual Revenue Forecast by Region (2025-2030) & (\$ millions)

Table 65. Europe Energy Storage Flywheel Sales Forecast by Country (2025-2030) & (Units)

Table 66. Europe Energy Storage Flywheel Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 67. Middle East & Africa Energy Storage Flywheel Sales Forecast by Country (2025-2030) & (Units)

Table 68. Middle East & Africa Energy Storage Flywheel Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 69. Global Energy Storage Flywheel Sales Forecast by Type (2025-2030) & (Units)

Table 70. Global Energy Storage Flywheel Revenue Forecast by Type (2025-2030) & (\$ millions)

Table 71. Global Energy Storage Flywheel Sales Forecast by Application (2025-2030) &

(Units)

Table 72. Global Energy Storage Flywheel Revenue Forecast by Application (2025-2030) & (\$ millions)

Table 73. Piller Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 74. Piller Energy Storage Flywheel Product Portfolios and Specifications

Table 75. Piller Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 76. Piller Main Business

Table 77. Piller Latest Developments

Table 78. Calnetix Technologies Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 79. Calnetix Technologies Energy Storage Flywheel Product Portfolios and Specifications

Table 80. Calnetix Technologies Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 81. Calnetix Technologies Main Business

Table 82. Calnetix Technologies Latest Developments

Table 83. ABB Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 84. ABB Energy Storage Flywheel Product Portfolios and Specifications

Table 85. ABB Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 86. ABB Main Business

Table 87. ABB Latest Developments

Table 88. POWERTHRU Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 89. POWERTHRU Energy Storage Flywheel Product Portfolios and Specifications

Table 90. POWERTHRU Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 91. POWERTHRU Main Business

Table 92. POWERTHRU Latest Developments

Table 93. PUNCH Flybrid Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 94. PUNCH Flybrid Energy Storage Flywheel Product Portfolios and Specifications

Table 95. PUNCH Flybrid Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 96. PUNCH Flybrid Main Business

Table 97. PUNCH Flybrid Latest Developments

Table 98. Revterra Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 99. Revterra Energy Storage Flywheel Product Portfolios and Specifications

Table 100. Revterra Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 101. Revterra Main Business

Table 102. Revterra Latest Developments

Table 103. Amber Kinetic Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 104. Amber Kinetic Energy Storage Flywheel Product Portfolios and Specifications

Table 105. Amber Kinetic Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 106. Amber Kinetic Main Business

Table 107. Amber Kinetic Latest Developments

Table 108. Shandong Tianrui Heavy Industry Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 109. Shandong Tianrui Heavy Industry Energy Storage Flywheel Product Portfolios and Specifications

Table 110. Shandong Tianrui Heavy Industry Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 111. Shandong Tianrui Heavy Industry Main Business

Table 112. Shandong Tianrui Heavy Industry Latest Developments

Table 113. Stornetic Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 114. Stornetic Energy Storage Flywheel Product Portfolios and Specifications

Table 115. Stornetic Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 116. Stornetic Main Business

Table 117. Stornetic Latest Developments

Table 118. VYCON Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 119. VYCON Energy Storage Flywheel Product Portfolios and Specifications

Table 120. VYCON Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 121. VYCON Main Business

Table 122. VYCON Latest Developments

Table 123. Beijing Qifeng Energy Technology Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 124. Beijing Qifeng Energy Technology Energy Storage Flywheel Product Portfolios and Specifications

Table 125. Beijing Qifeng Energy Technology Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 126. Beijing Qifeng Energy Technology Main Business

Table 127. Beijing Qifeng Energy Technology Latest Developments

Table 128. Huachi Dongneng Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 129. Huachi Dongneng Energy Storage Flywheel Product Portfolios and Specifications

Table 130. Huachi Dongneng Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 131. Huachi Dongneng Main Business

Table 132. Huachi Dongneng Latest Developments

Table 133. Kinetic Traction Systems Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 134. Kinetic Traction Systems Energy Storage Flywheel Product Portfolios and Specifications

Table 135. Kinetic Traction Systems Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 136. Kinetic Traction Systems Main Business

Table 137. Kinetic Traction Systems Latest Developments

Table 138. BC New Energy Basic Information, Energy Storage Flywheel Manufacturing Base, Sales Area and Its Competitors

Table 139. BC New Energy Energy Storage Flywheel Product Portfolios and Specifications

Table 140. BC New Energy Energy Storage Flywheel Sales (Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2019-2024)

Table 141. BC New Energy Main Business

Table 142. BC New Energy Latest Developments

br>

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Energy Storage Flywheel
- Figure 2. Energy Storage Flywheel Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Energy Storage Flywheel Sales Growth Rate 2019-2030 (Units)
- Figure 7. Global Energy Storage Flywheel Revenue Growth Rate 2019-2030 (\$ millions)
- Figure 8. Energy Storage Flywheel Sales by Geographic Region (2019, 2023 & 2030) & (\$ millions)
- Figure 9. Energy Storage Flywheel Sales Market Share by Country/Region (2023)
- Figure 10. Energy Storage Flywheel Sales Market Share by Country/Region (2019, 2023 & 2030)
- Figure 11. Product Picture of Below 500 MJ
- Figure 12. Product Picture of 500-1500 MJ
- Figure 13. Product Picture of Above 1500 MJ
- Figure 14. Global Energy Storage Flywheel Sales Market Share by Type in 2023
- Figure 15. Global Energy Storage Flywheel Revenue Market Share by Type (2019-2024)
- Figure 16. Energy Storage Flywheel Consumed in Power Grid
- Figure 17. Global Energy Storage Flywheel Market: Power Grid (2019-2024) & (Units)
- Figure 18. Energy Storage Flywheel Consumed in Rail Transit
- Figure 19. Global Energy Storage Flywheel Market: Rail Transit (2019-2024) & (Units)
- Figure 20. Energy Storage Flywheel Consumed in UPS Uninterruptible Power Supply
- Figure 21. Global Energy Storage Flywheel Market: UPS Uninterruptible Power Supply (2019-2024) & (Units)
- Figure 22. Energy Storage Flywheel Consumed in Others
- Figure 23. Global Energy Storage Flywheel Market: Others (2019-2024) & (Units)
- Figure 24. Global Energy Storage Flywheel Sale Market Share by Application (2023)
- Figure 25. Global Energy Storage Flywheel Revenue Market Share by Application in 2023
- Figure 26. Energy Storage Flywheel Sales by Company in 2023 (Units)
- Figure 27. Global Energy Storage Flywheel Sales Market Share by Company in 2023
- Figure 28. Energy Storage Flywheel Revenue by Company in 2023 (\$ millions)
- Figure 29. Global Energy Storage Flywheel Revenue Market Share by Company in 2023

Figure 30. Global Energy Storage Flywheel Sales Market Share by Geographic Region (2019-2024)

Figure 31. Global Energy Storage Flywheel Revenue Market Share by Geographic Region in 2023

Figure 32. Americas Energy Storage Flywheel Sales 2019-2024 (Units)

Figure 33. Americas Energy Storage Flywheel Revenue 2019-2024 (\$ millions)

Figure 34. APAC Energy Storage Flywheel Sales 2019-2024 (Units)

Figure 35. APAC Energy Storage Flywheel Revenue 2019-2024 (\$ millions)

Figure 36. Europe Energy Storage Flywheel Sales 2019-2024 (Units)

Figure 37. Europe Energy Storage Flywheel Revenue 2019-2024 (\$ millions)

Figure 38. Middle East & Africa Energy Storage Flywheel Sales 2019-2024 (Units)

Figure 39. Middle East & Africa Energy Storage Flywheel Revenue 2019-2024 (\$ millions)

Figure 40. Americas Energy Storage Flywheel Sales Market Share by Country in 2023

Figure 41. Americas Energy Storage Flywheel Revenue Market Share by Country (2019-2024)

Figure 42. Americas Energy Storage Flywheel Sales Market Share by Type (2019-2024)

Figure 43. Americas Energy Storage Flywheel Sales Market Share by Application (2019-2024)

Figure 44. United States Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 45. Canada Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 46. Mexico Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 47. Brazil Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 48. APAC Energy Storage Flywheel Sales Market Share by Region in 2023

Figure 49. APAC Energy Storage Flywheel Revenue Market Share by Region (2019-2024)

Figure 50. APAC Energy Storage Flywheel Sales Market Share by Type (2019-2024)

Figure 51. APAC Energy Storage Flywheel Sales Market Share by Application (2019-2024)

Figure 52. China Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 53. Japan Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 54. South Korea Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 55. Southeast Asia Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 56. India Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 57. Australia Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 58. China Taiwan Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 59. Europe Energy Storage Flywheel Sales Market Share by Country in 2023

Figure 60. Europe Energy Storage Flywheel Revenue Market Share by Country (2019-2024)

Figure 61. Europe Energy Storage Flywheel Sales Market Share by Type (2019-2024)

Figure 62. Europe Energy Storage Flywheel Sales Market Share by Application (2019-2024)

Figure 63. Germany Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 64. France Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 65. UK Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 66. Italy Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 67. Russia Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 68. Middle East & Africa Energy Storage Flywheel Sales Market Share by Country (2019-2024)

Figure 69. Middle East & Africa Energy Storage Flywheel Sales Market Share by Type (2019-2024)

Figure 70. Middle East & Africa Energy Storage Flywheel Sales Market Share by Application (2019-2024)

Figure 71. Egypt Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 72. South Africa Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 73. Israel Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 74. Turkey Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 75. GCC Countries Energy Storage Flywheel Revenue Growth 2019-2024 (\$ millions)

Figure 76. Manufacturing Cost Structure Analysis of Energy Storage Flywheel in 2023

Figure 77. Manufacturing Process Analysis of Energy Storage Flywheel

Figure 78. Industry Chain Structure of Energy Storage Flywheel

Figure 79. Channels of Distribution

Figure 80. Global Energy Storage Flywheel Sales Market Forecast by Region (2025-2030)

Figure 81. Global Energy Storage Flywheel Revenue Market Share Forecast by Region (2025-2030)

Figure 82. Global Energy Storage Flywheel Sales Market Share Forecast by Type (2025-2030)

Figure 83. Global Energy Storage Flywheel Revenue Market Share Forecast by Type (2025-2030)

Figure 84. Global Energy Storage Flywheel Sales Market Share Forecast by Application

(2025-2030)

Figure 85. Global Energy Storage Flywheel Revenue Market Share Forecast by Application (2025-2030)

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