

Investment value of flywheel energy storage





Overview

What is the market share of Flywheel energy storage in 2025?

Utility will dominate with a 46.8% market share in 2025. The flywheel energy storage market is projected to reach USD 1.3 billion in 2025 and expand to USD 2.0 billion by 2035, advancing at a CAGR of 4.2 % during this period.

Are flywheel energy storage systems economically feasible?

Equipment cost distribution for the flywheel energy storage systems. FESSs are used for short-duration power applications. Therefore, power capital cost (\$/kW) could be a useful parameter to compare the economic feasibility of energy storage systems for similar power applications.

What is the power rating of a flywheel energy storage system?

Utility-scale energy storage systems for stationary applications typically have power ratings of 1 MW or more . The largest flywheel energy storage is in New York, USA by Beacon Power with a power rating of 20 MW and 15 min discharge duration .

How can flywheels be more competitive to batteries?

The use of new materials and compact designs will increase the specific energy and energy density to make flywheels more competitive to batteries. Other opportunities are new applications in energy harvest, hybrid energy systems, and flywheel's secondary functionality apart from energy storage.



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[Flywheel Energy Storage Market Statistics, 2025-2034 Report](#)

The global flywheel energy storage market was valued at USD 1.3 billion in 2024 and is expected to reach a value of USD 1.9 billion by 2034, growing at a CAGR of 4.2% from 2025 to 2034.

[Flywheel Energy Storage Systems Decade Long Trends, ...](#)

Apr 1, 2025 · The flywheel energy storage systems (FESS) market is experiencing robust growth, projected to reach a market size of \$166.4 million in 2025, exhibiting a Compound Annual ...



[Energy Storage Flywheel Market](#)

A single 20-ton flywheel rotor assembly for utility-scale storage requires specialized transportation infrastructure, with only 12 certified heavy-haul carriers operating in North America. During ...

[Flywheel Energy Storage Market , Global Market Analysis ...](#)

Sep 17, 2025 · The global flywheel energy storage market is projected to grow at a CAGR of 4.2% between 2025 and 2035. China leads with



5.7%, driven by rapid adoption in grid stabilization, ...



[Flywheel Energy Storage Market Size, Share](#)

Sep 26, 2025 · The Flywheel Energy Storage Market size was valued at USD 415.67 million in 2025 and is expected to reach USD 927.30 million by ...



[Flywheel Energy Storage System Market](#)

Oct 31, 2025 · The Flywheel Energy Storage System Market size is expected to reach USD 62 billion in 2030 registering a CAGR of 11.2. This Flywheel Energy Storage System Market ...



[Flywheel Energy Storage Market Size to ...](#)

Jul 2, 2025 · The global flywheel energy storage market size was valued at USD 1.43 billion in 2024 and is projected to worth around USD 1.81 billion ...





[Explore global investment data and changing trends](#)

Oct 7, 2025 · The UNCTAD FDI Explorer shows tracks shifts in global investment flows. Users can explore data by region or economy and compare trends since 1990.



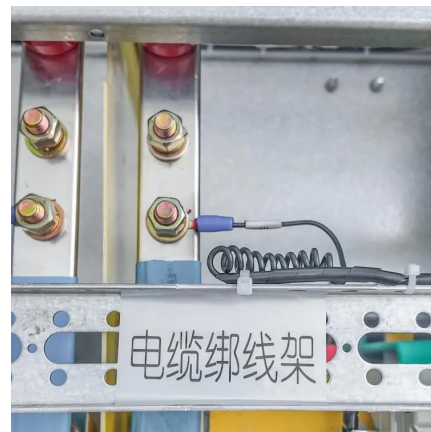
Flywheel Energy Storage Market Size to Worth USD 1.81 Bn ...

Jul 2, 2025 · The global flywheel energy storage market size was valued at USD 1.43 billion in 2024 and is projected to worth around USD 1.81 billion by 2034 with a CAGR of 2.38%.



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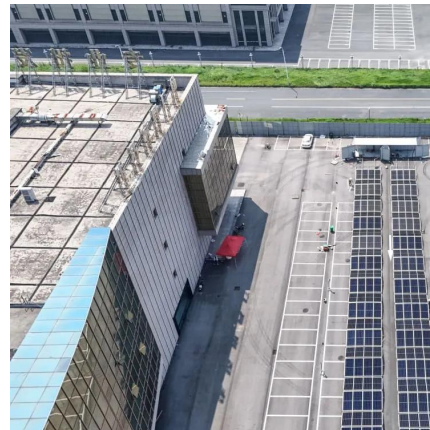
World Investment Report 2024: Investment facilitation and ...

Jun 20, 2024 · Global foreign direct investment (FDI) fell by 2% to \$1.3 trillion in 2023 amid an economic slowdown and rising geopolitical tensions, according to the World Investment Report ...



World Investment Report 2025: International investment in ...

Jun 19, 2025 · UN Trade and Development (UNCTAD), World investment report 2025 The data includes financial transactions through European economies with high levels of conduit flows. ...



[Flywheel Energy Storage Market Size, Share & Analysis, 2033](#)

Sep 26, 2025 · The Flywheel Energy Storage Market size was valued at USD 415.67 million in 2025 and is expected to reach USD 927.30 million by 2033 with a CAGR of 10.55%

Global Flywheel Energy Storage Systems Market Outlook to ...

The Global Flywheel Energy Storage Systems Market size is valued at USD 438.32 billion in 2023, driven by market forecast, strategic insights, and top players. Explore market share ...



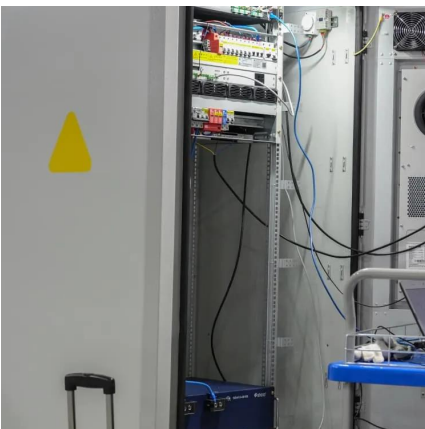


[The development of a techno-economic model for the ...](#)

Oct 1, 2021 · This study, therefore, focuses on developing a bottom-up techno-economic model to design system components and to evaluate the total investment cost and levelized cost of ...

A review of flywheel energy storage systems: state of the ...

Mar 15, 2021 · This paper gives a review of the recent Energy storage Flywheel Renewable energy Battery Magnetic bearing developments in FESS technologies. Due to the highly ...



[Global foreign direct investment falls for the second](#)

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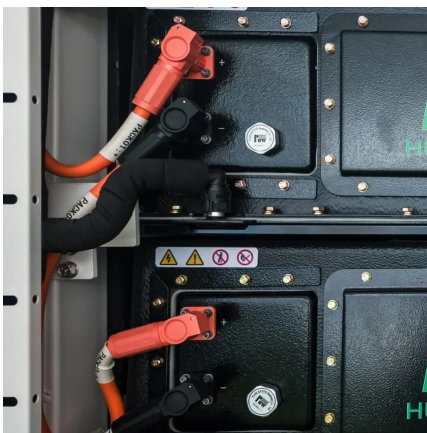
Developing Asia: Mixed picture for foreign investment in 2024

Jun 19, 2025 · In 2024, developing economies of Asia attracted \$605 billion in foreign direct investment (FDI), according to the latest World Investment Report released by UN Trade and ...



World Investment Report 2025: International investment in ...

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[Global Investment Trends Monitor, No 48](#)

Mar 3, 2025 · Greenfield investment announcements and international project finance deals showed declines in both project numbers and values. Project finance was especially weak, ...



[Flywheel Energy Storage Systems Decade ...](#)

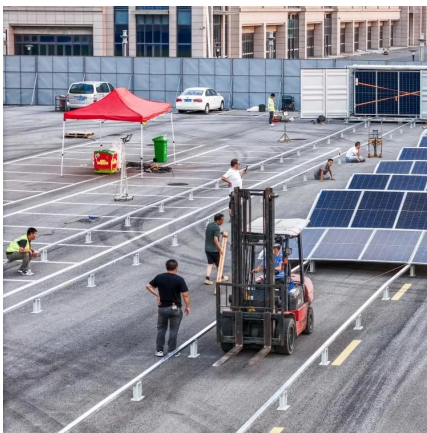
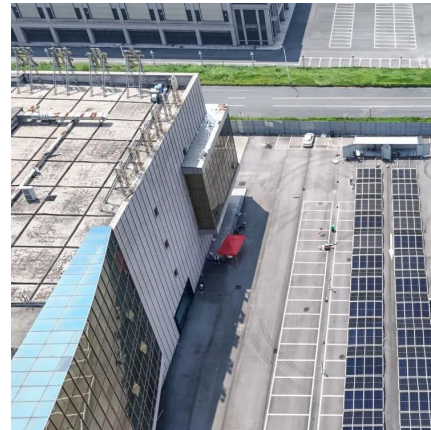
Apr 1, 2025 · The flywheel energy storage systems (FESS) market is experiencing robust growth, projected to reach a market size of \$166.4 ...





[Africa: Foreign investment hit record high in 2024](#)

Jun 19, 2025 · Foreign investment in Africa surged by 75% to reach an all-time high of \$97 billion in 2024, bolstered by liberalization and facilitation efforts across the continent.



World Investment Report 2025: International investment in ...

Jun 19, 2025 · Global foreign direct investment fell by 11%, marking the second consecutive year of decline and confirming a deepening slowdown in productive capital flows, according to the ...

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