

What are the investments in flywheel energy storage





Overview

Flywheel Energy Storage Market Flywheel Energy Storage Market Size and Share Forecast Outlook 2025 to 2035 The flywheel energy storage market is projected to grow from USD 1.4 billion in 2025 to USD 2.0 billion by 2035, at a CAGR of 4.2%. Utility will dominate with a 46.8% market share in 2025.

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The flywheel energy storage market is projected to grow from USD 1.4 billion in 2025 to USD 2.0 billion by 2035, at a CAGR of 4.2%. 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.

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. Flywheels are used for uninterruptible power supply (UPS) systems in data centers due to their instant response.

Flywheel energy storage is a mechanical energy storage system that utilizes the kinetic energy of a rotating mass, or flywheel, to store and release energy. Flywheels store energy by spinning a heavy rotor at high speeds. When excess electricity is available, the motor accelerates the flywheel.

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 Growth Rate (CAGR) of 7.9%. This expansion is driven by several key factors. The increasing demand for reliable and efficient.

The latest example is the Illinois investment firm Magnetar Finance, which has just surged \$200 million in funding towards the flywheel energy storage innovator Torus Energy. Flywheels have largely fallen off the energy storage news radar in recent years, their latter-day mechanical underpinnings.



Flywheel energy storage investment trends aren't just a niche topic anymore—they're becoming the dark horse of the renewable energy race. This article breaks down why startups, governments, and even SpaceX-style visionaries are betting big on these spinning giants. Imagine a massive rotating wheel.



What are the investments in flywheel energy storage



[Flywheel Energy Storage System Market Analysis](#)

Continued investments in research, collaborations, and market education will contribute to the future success and expansion of the Flywheel Energy Storage System market.

Flywheel-lithium battery hybrid energy storage system ...

A hybrid energy storage system combining lithium-ion batteries with mechanical energy storage in the form of flywheels has gone into ...



Torus Raises \$200 Million to Accelerate Deployment of Modular ...

Inertia-based, flywheel-battery hybrid system delivers faster, more durable energy storage Investment comes at inflection point in growth of energy demand driven by artificial ...



[Investment in a flywheel from QuinteQ for efficient ...](#)

QuinteQ Energy from Nijmegen has acquired a unique technology from Boeing for the storage of energy in the form of an ultra-efficient and



therefore economical ...



Flywheel Energy Storage Rookie "Candla New Energy" Receives ...

5 ???· The new energy industry is an important field of Shuimu Chunjin Capital's investment, and investing in Candela New Energy is also an important investment layout of Shuimu ...



10 cutting-edge innovations redefining energy storage solutions

As the global energy transition accelerates, the need for reliable, scalable and cost-effective energy storage solutions has never been greater. Stationary energy storage ...



Electricity explained Energy storage for electricity generation

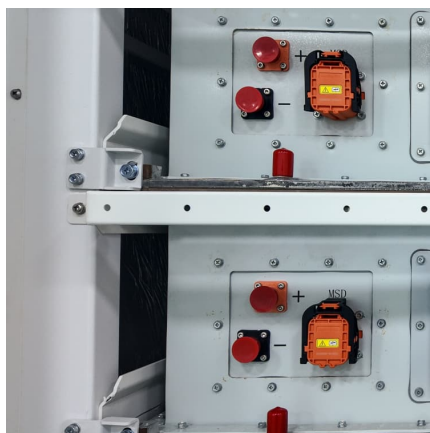
Energy storage for electricity generation An energy storage system (ESS) for electricity generation uses electricity (or some other energy source, such as solar-thermal energy) to charge an ...





Opportunities in Flywheel Energy Storage Market 2025-2033

Continued investment in research and development, focused on improving energy density and reducing the overall cost of the technology, will be crucial for realizing the ...



[What is a flywheel energy storage system? . NenPower](#)

Consequently, within a diversified energy portfolio, flywheel energy storage systems will likely establish themselves as indispensable assets. Thus, this technology ...

[The Status and Future of Flywheel Energy Storage](#)

Outline Flywheels, one of the earliest forms of energy storage, could play a significant role in the transformation of the electrical power system into one that is fully sustainable yet low cost. ...



Flywheel energy storage investment

The UN's Sustainable Energy for All initiative anticipates USD45,000 million in investments for modern electricity access, with flywheel energy storage systems playing a crucial role. The ...



Flywheel Energy Storage Market 2025-2034 , Size,Share, Growth

The market for Flywheel Energy Storage is driven by the increasing adoption of renewable energy sources, growing demand for grid stabilization, and rising investments in energy storage ...



[How much does a flywheel energy storage system cost?](#)

The examination of flywheel energy storage systems reveals a complex interplay of factors influencing their pricing and application. Ranging ...

Growth Trajectories in Energy Storage Flywheel: Industry Outlook ...

The energy storage flywheel market, currently valued at \$236 million in 2025, is projected to experience robust growth, driven by the increasing demand for reliable and ...



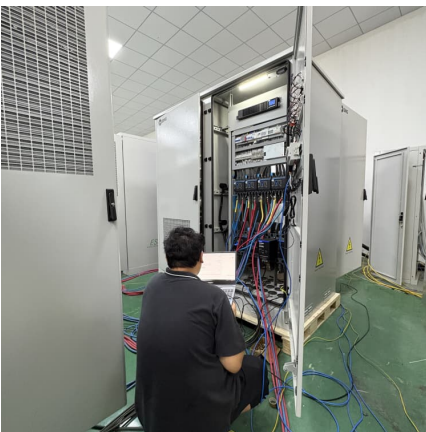


Flywheel Energy Storage Market Statistics, 2025-2034 Report

The top 5 players operating in flywheel energy storage industry include Langley Holdings, Amber Kinetics, VYCON, PUNCH Flybrid, and OXTO Energy, which collectively hold over 35% of the ...

[Top 5 Reasons to Invest in Home Flywheel Energy ...](#)

Home Flywheel Storage is a Great Value for Money One of the first reasons why you should invest in flywheel energy storage is because it is ...



Flywheel Energy Storage Market Size , Growth Report [2032]

The global flywheel energy storage market size is projected to grow from \$351.94 million in 2025 to \$564.91 million by 2032, at a CAGR of 6.99%

What is the estimated market value of flywheel energy storage?

The arithmetic of progress and environmental concerns suggests that flywheel energy storage will tend to occupy a solid foothold in the emerging paradigms of energy ...



What are the disadvantages of flywheel energy storage?

What are the disadvantages of flywheel energy storage? High initial costs, specific applications, limited energy density, short discharge ...



Flywheel Energy Storage: Alternative to Battery Storage

As the energy grid evolves, storage solutions that can efficiently balance the generation and demand of renewable energy sources are critical. ...



Flywheel Systems for Utility Scale Energy Storage

In 2012, the Electric Program Investment Charge (EPIC) was established by the California Public Utilities Commission to fund public investments in research to create and advance new energy ...





Flywheel Energy Storage Market , Global Market Analysis Report

12 ????· Flywheel Energy Storage Market
Flywheel Energy Storage Market Size and Share
Forecast Outlook 2025 to 2035 The flywheel energy storage market is projected to grow from ...



Amber Kinetics M32

The Amber Kinetics M32 (8kW,32kWh) is the first commercialized four-hour discharge duration Kinetic Energy Storage System (KESS) powered by advanced flywheel technology that stores ...

Energy Storage Flywheel Market

Energy storage flywheel systems are gaining traction due to their ability to deliver rapid energy discharge, high cycle life, and minimal environmental impact. Renewable energy integration ...



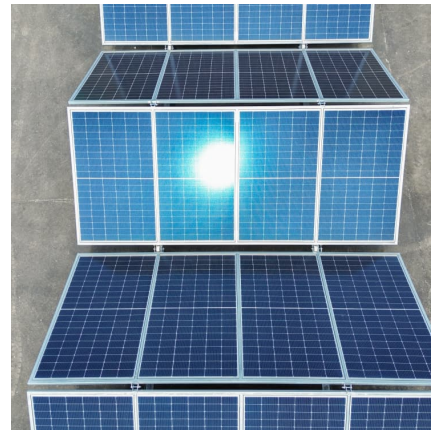
[Flywheel Energy Storage Systems . Electricity ...](#)

Flywheel technology is a method of energy storage that uses the principles of rotational kinetic energy. A flywheel is a mechanical device that stores energy ...



A review of flywheel energy storage systems: state of the art and

In this paper, state-of-the-art and future opportunities for flywheel energy storage systems are reviewed. The FESS technology is an interdisciplinary, complex subject that ...



HOME , Qnetic

Qnetic's revolutionary flywheel energy storage system (FESS) has the biggest energy capacity in the world. It is a technological breakthrough, resulting in a very low-cost storage solution, ...

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