



EQACC SOLAR

2025 Flywheel Energy Storage Installed Capacity Data



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 a good choice?

Li-ion and lead-acid batteries are the most commonly used energy storage systems here. However, advantages of flywheel energy storage systems such as higher efficiency and longer life are projected to increase the demand for flywheel energy storage systems, within the country.

What is a flywheel inverter?

The flywheel inverter acts as a reliable backup power source, avoiding losses during frequent power outages in multiple installations. North America accounted for the largest market share with 79.2% in terms of turnover. It is the largest flywheel energy storage market, with the United States occupying the largest share of the regional market.

What is flywheel storage?

Flywheel storage basically consists of a flywheel that is accelerated to very high speeds and suspended in a vacuum, energy is stored in the form of rotary motion that can be extracted by decelerating the flywheel. With recent advancements, yields of around 80% have been achieved which is the highest compared to any other storage device.

2025 Flywheel Energy Storage Installed Capacity Data



Global installed energy storage capacity by ...

Global installed energy storage capacity by scenario, 2023 and 2030 - Chart and data by the International Energy Agency.

Flywheel Energy Storage Systems Decade ...

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



Global installed energy storage capacity by scenario, 2023 ...

Global installed energy storage capacity by scenario, 2023 and 2030 - Chart and data by the International Energy Agency.

Flywheel Energy Storage Market Size, Share

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 ...



2025 china flywheel energy storage

By 2025, Guizhou aims to develop itself into an important research and development and production center for new energy power batteries and materials. Recently, China saw a ...

Case study on flywheel energy storage systems: LPTN-based ...

This study established a lumped parameter thermal network model for vertical flywheel energy storage systems, considering three critical gaps in conventional thermal ...



Flywheel Energy Storage Systems Decade Long Trends, ...

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 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 energy storage system or device, which is ...



New-type energy storage poised to fuel China's growth

China's installed capacity of new-type energy storage exceeded that of pumped storage for the first time at the end of 2024, according to a recent data release by China ...

Flywheel Energy Storage System Market Size, ...

Flywheel Energy Storage System Market is projected to grow at a 3.40% CAGR from 2025 to 2035, driven by increasing demand for renewable ...



Applications



Flywheel Energy Storage Market Size to ...

The global flywheel energy storage market size was estimated at USD 1.43 billion in 2024 and is predicted to increase from USD 1.46 ...

June , Monthly Project Tracker of New Energy Storage

June , Monthly Project Tracker of New Energy Storage , Large-Scale Energy Storage Sees 68% Year-on-Year Decline in New Installed Capacity Core Data: o In June, newly ...



China's new energy storage capacity surges ...

In 2024 alone, China added 42.37 GW/101.13 GWh of new storage capacity (excluding pumped hydro), with an average discharge ...



Flywheel Energy Storage Systems Market Size ...

The global flywheel energy storage systems (FESS) market was estimated at USD 461.11 billion in 2024 and is projected to reach USD 631.81 billion by

...



Flywheel Energy Storage System Market Size, Share Report ...

Flywheel Energy Storage System Market is projected to grow at a 3.40% CAGR from 2025 to 2035, driven by increasing demand for renewable energy integration and grid stability.

Flywheel Energy Storage Systems Market Size Report, 2030

The global flywheel energy storage systems (FESS) market was estimated at USD 461.11 billion in 2024 and is projected to reach USD 631.81 billion by

2030, growing at a CAGR of 5.2% from ...



- IP65/IP55 OUTDOOR CABINET
- ALUMINUM
- OUTDOOR ENERGY STORAGE CABINET
- OUTDOOR EQUIPMENT CABINET

Industry Report on Global Energy Storage System ...

CIC introduction, methodologies, and assumptions China Insights Industry Consultancy is commissioned to conduct research and analysis of and produce a report on the ...

Flywheel Energy Storage Market Size , Growth Report [2032]

Flywheel Energy Storage Market Size, Share & Industry Analysis, By Application (Uninterrupted Power Supply, Distributed Energy Generation, Data Centers, Transport, and ...



Global energy storage market: review and outlook

The global energy storage market added 175.4 GWh of installed capacity in 2024, with the three major regional markets--China, the Americas, and



Europe--continuing to ...

Energy storage

In July 2021 China announced plans to install over 30 GW of energy storage by 2025 (excluding pumped-storage hydropower), a more ...



Flywheel Energy Storage Market Size, Share & Analysis, 2033

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%

Flywheel Energy Storage Market Statistics, 2025-2034 Report

The flywheel energy storage market size crossed USD 1.3 billion in 2024 and is expected to register at a CAGR of 4.2% from 2025 to 2034, driven by rising

demand for reliable UPS ...

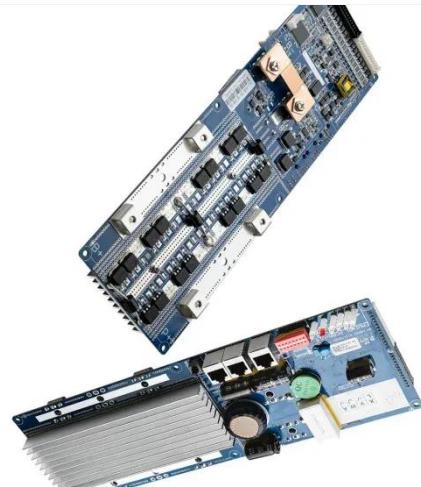


Flywheel Energy Storage Market , Global Market Analysis ...

Flywheel Energy Storage Market is expected to reach USD 2.0 billion and likely to surge at a CAGR of 4.2% during forecast period from 2025 to 2035.

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

The global flywheel energy storage market size was estimated at USD 1.43 billion in 2024 and is predicted to increase from USD 1.46 billion in 2025 to approximately USD 1.81 ...



U.S. battery capacity increased 66% in 2024

In 2025, capacity growth from battery storage could set a record as operators report plans to add 19.6 GW of utility-scale battery storage to the grid,

according to our ...



Flywheel Energy Storage Market Size & Growth [2025-2034]

Global Flywheel Energy Storage Market size is estimated at USD 0.36 Billion in 2025 and expected to rise to USD 0.32 Billion by 2034, experiencing a CAGR of 9.13%.



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