

# Which companies are producing flywheel energy storage equipment





## Overview

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Meet flywheel energy storage —the mechanical battery that's giving lithium-ion a run for its money. Companies like Beacon Power and Amber Kinetics are turning this centuries-old concept (think pottery wheels!) into cutting-edge solutions for modern energy challenges [1] [5]. Why do we need advanced flywheel energy storage systems?

This brings us to the pressing need for innovative solutions such as Advanced Flywheel Energy Storage Systems (FESS), which offers a sustainable and efficient alternative. FESS offers unparalleled longevity and reliability, with lifespans exceeding 50,000 cycles and design lives of over 25 years.

What are the benefits of a flywheel system?

2. Renewable Energy Integration These systems are particularly effective for integrating renewable energy sources, such as wind and solar. Flywheels can store excess energy generated during peak production times and release it when generation is low, ensuring a consistent energy supply.

What is a flywheel energy storage system (fess)?

To solve this problem, London-based startup Levistor has developed an innovative Flywheel Energy Storage System (FESS), which acts as a kinetic battery. This technology stores energy from the grid during periods of low demand and releases it rapidly when an EV needs a quick charge. It can deliver 100 miles of range in just five minutes.

What is flywheel energy storage?

Flywheel energy storage is a technology that stores kinetic energy in a rotating mass. When energy is needed, the flywheel's rotation is converted back into electrical energy. This process is highly efficient and allows for rapid charging and discharging cycles.

What is a flywheel & how does it work?



It also operates efficiently across a wide temperature range (-20° to 140°F). The Flywheel is constructed from 95% recyclable materials, emphasizing its commitment to sustainability. The system can store and rapidly deploy energy and can be used in residential and commercial settings. It helps reduce demand charges and lower overall power costs.

What is advanced flywheel technology?

The Advanced Flywheel Technology utilizes a low-friction environment created by passive magnetic bearings. It reduces energy losses by up to 20 times compared to conventional flywheel systems. This innovative approach enables larger module sizes, lowering costs and improving efficiency.



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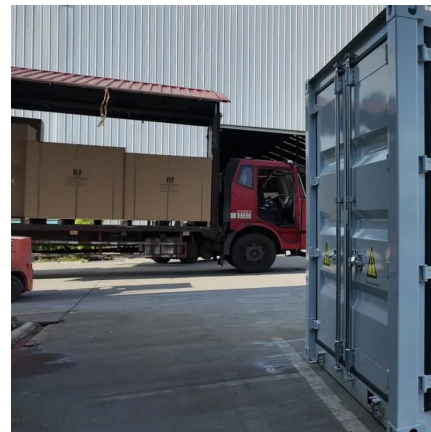


### Flywheel Systems for Utility Scale Energy Storage

Amber Kinetics, Inc. is the first company to design a long-discharge duration kinetic energy storage system based on advanced flywheel technology ideal for use in energy storage ...

### **Companies producing flywheel energy storage systems**

Top flywheel energy storage CompaniesHaydale  
Graphene Publicly Traded Founded 2010 .  
Revterra Corporation Privately Held Founded  
2018 . Ricardo Publicly Traded Founded 1915 . ...



### **What are the flywheel energy storage manufacturers?**

While larger manufacturers dominate the flywheel market, a number of smaller companies and startups are also entering the fray. These firms often focus on specific niches, ...

### **Companies producing flywheel energy storage systems**

Using energy storage technology can improve the stability and quality of the power grid. One





such technology is flywheel energy storage systems (FESSs). Compared with other energy storage ...



## Companies with Flywheel Energy Storage: Powering the Future ...

Meet flywheel energy storage--the mechanical battery that's giving lithium-ion a run for its money. Companies like Beacon Power and Amber Kinetics are turning this centuries ...

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

2 days ago· Torus announces a \$200 million investment by Magnetar ertia-based, flywheel-battery hybrid system delivers faster, more durable energy storage Investment comes at ...



## Top 10 Leading Companies in Flywheel Energy Storage System ...

Flywheel serves as a reliable energy storage solution in developing areas with less reliable grid infrastructure and high electricity costs, and in island areas where grids are reliant ...



## Top flywheel energy storage companies , VentureRadar

Levistor Ltd is a private company formed to commercialise innovative kinetic energy storage technology for grid power boosting. Developed at City, University of London, ours is the only ...



## Ranking of Chinese flywheel energy storage companies

At present, there are many companies producing flywheel energy storage products in the world, and companies including Top 10 flywheel energy storage companies in China are actively ...

## 10 New Grid Energy Storage Companies , StartUs ...

Gain data-driven insights on Grid Energy Storage, an industry consisting of 3K+ organizations worldwide. We have selected 10 standout innovators from 600+ ...



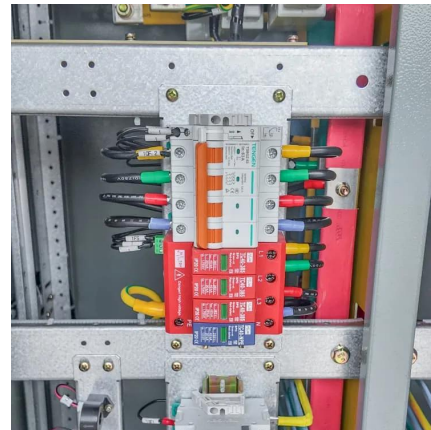
## [Top 24 Energy Storage Companies in Texas](#)

Explore the top energy storage companies in Texas like Calpine and Alpha Omega Power, shaping a sustainable future in energy management.



## RotorVault Flywheel Systems , Grid-Scale Energy ...

RotorVault flywheel systems provide reliable and sustainable energy storage solutions for residential, commercial and grid-scale applications.



## [Which companies are flywheel energy storage](#)

In summary, flywheel energy storage systems signify a notable advancement in energy management technologies, primarily driven by key ...

## Top 5 Advanced Flywheel Energy Storage Startups in 2025

This article explores five early and growth-stage advanced flywheel energy storage startups leading the next era of sustainable energy solutions. These startups have the potential to ...







## Secure energy storage and management systems - Torus

Next generation energy storage Our full-stack energy storage, management, security, and generation solutions are customized to meet the unique needs of utility companies, C&I ...

## Power module energy storage

ANA's Power Module offers scalable, high-efficiency energy storage for your business. Optimize your power generation with ANA's Power Module. Boost performance and save energy.



## [Top 20 Flywheel energy storage companies](#)

Beijing Honghui Energy Development Co. Ltd. is a Chinese company that manufactures energy storage equipment. Beacon Power Corporation designs, develops, and ...

## Top 100 Flywheel Energy Storage Companies in 2025 ...

Identify and compare relevant B2B manufacturers, suppliers and retailers. Max. Convergent Energy and Power specializes in energy storage solutions, ...





## Which companies are flywheel energy storage , NenPower

In summary, flywheel energy storage systems signify a notable advancement in energy management technologies, primarily driven by key players like Siemens and Beacon ...



## Top 5 Advanced Flywheel Energy Storage Startups in 2025

Unlike conventional methods, FESS provides longer lifespans, rapid response times, and minimal environmental impact, making it a compelling option for future energy storage. This article ...



## Top 100 Flywheel Energy Storage Companies in 2025 , ensun

Identify and compare relevant B2B manufacturers, suppliers and retailers. Max. Convergent Energy and Power specializes in energy storage solutions, including flywheel energy storage, ...





## Revterra

Revterra is changing energy storage for good  
We're a sustainable energy company  
empowering visionaries to push the world  
forward. Our kinetic ...



## What are the flywheel energy storage manufacturers?

While larger manufacturers dominate the flywheel market, a number of smaller companies and startups are also entering the fray. These ...

## 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%



## \$200 Million For Renewables-Friendly Flywheel Energy Storage

1 day ago · \$200 Million For Advanced Energy Storage  
Torus Energy is among the flywheel innovators ready to push their technology into the market here and now.



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