

London builds energy storage flywheel





Overview

What is a flywheel energy storage system?

A typical flywheel energy storage system , which includes a flywheel/rotor, an electric machine, bearings, and power electronics. Fig. 3. The Beacon Power Flywheel , which includes a composite rotor and an electric machine, is designed for frequency regulation.

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.

What are flywheels & how do they work?

Flywheels are an ancient concept, storing energy in the momentum of a spinning wheel. Add modern features like vacuum housing and magnetic bearings, and a highly efficient energy storage device can be created with a substantially longer lifetime and lower environmental impact than alternative technologies for certain applications.

What is Falcon flywheels?

Falcon Flywheels is an early-stage startup developing flywheel energy storage for electricity grids around the world. The rapid fluctuation of wind and solar power with demand for electricity creates a need for energy storage. Flywheels are an ancient concept, storing energy in the momentum of a spinning wheel.



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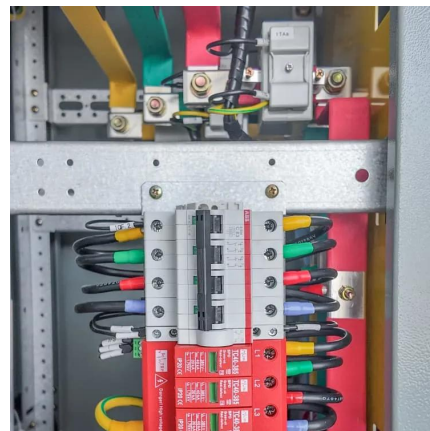
[A review of flywheel energy storage systems: state of the art ...](#)

Feb 1, 2022 · A review of the recent development in flywheel energy storage technologies, both in academia and industry.



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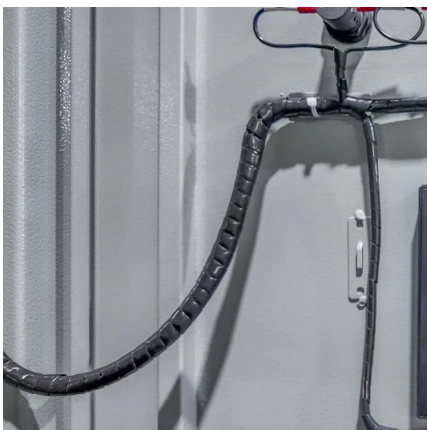
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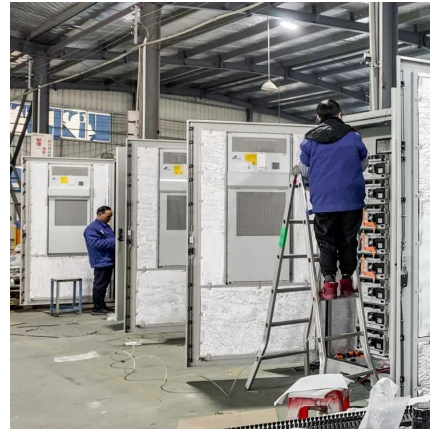
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Levistor Flywheel: UK Rail Energy Savings Trial

Sep 6, 2025 · Levistor's new flywheel energy storage, designed for rail, promises reduced energy use and emissions. Trials begin late 2025.

Energy Storage , Falcon Flywheels , England

Grid-Scale Kinetic Energy Storage Falcon Flywheels is an early-stage startup developing flywheel energy storage for electricity grids around the world. The rapid fluctuation of wind and solar ...



Levistor , Revolutionary Energy Storage Technology

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