

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 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 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.

What is a flywheel & how does it work?

It also operates efficiently across a wide temperature range (-20°C to 140°C). 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.

How long does a torus flywheel last?

The Torus Flywheel is designed for durability, offering a lifespan of up to 30 years and 50,000 charge cycles -- three times longer than most chemical batteries. It also operates efficiently across a wide temperature range (-20°C to 140°C). The Flywheel is constructed from 95% recyclable materials, emphasizing its commitment to sustainability.

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