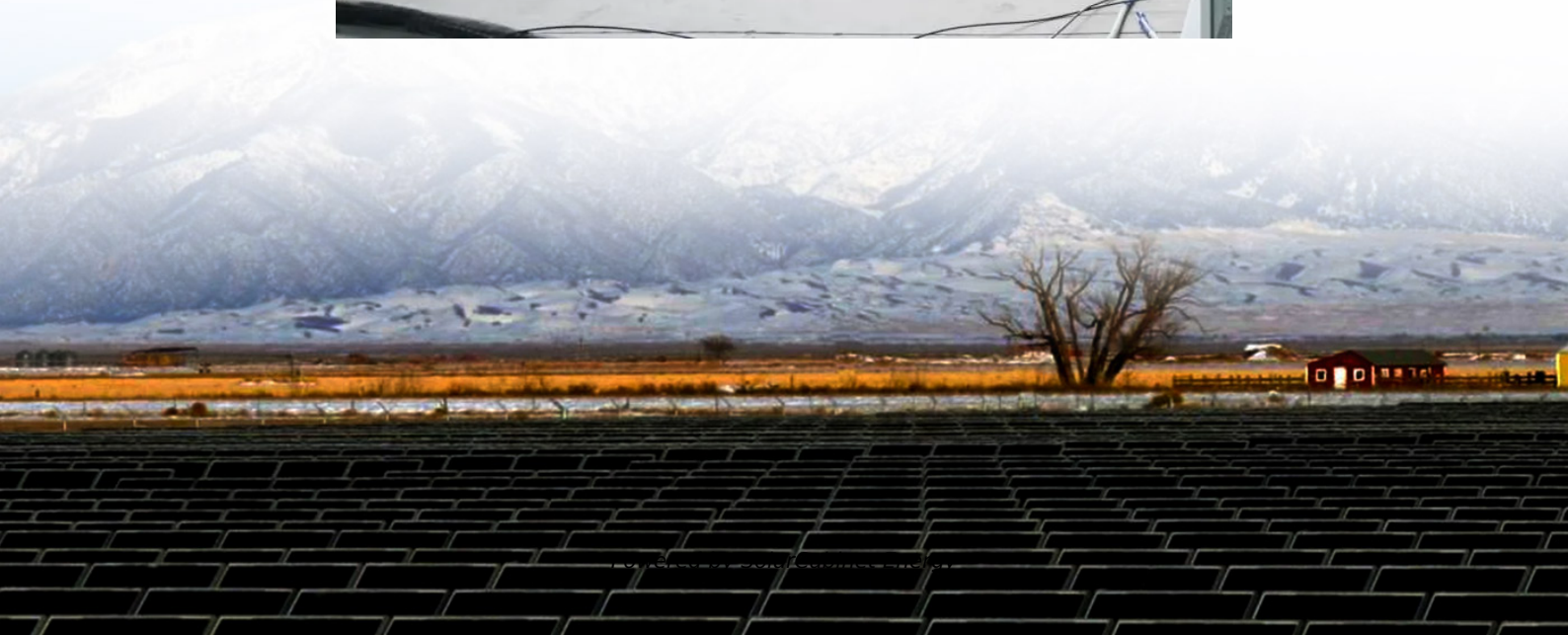
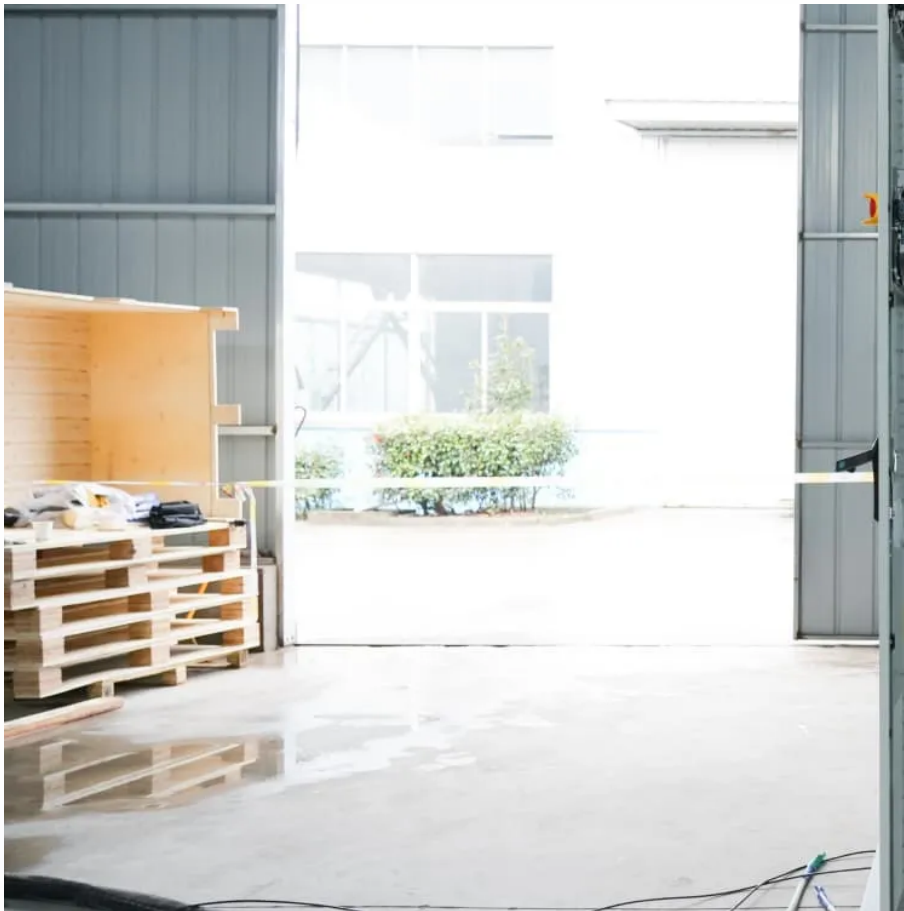


Flywheel that can store energy





Overview

First-generation flywheel energy-storage systems use a large steel flywheel rotating on mechanical bearings. Newer systems use carbon-fiber composite rotors that have a higher tensile strength than steel and can store much more energy for the same mass.

Flywheel energy storage (FES) works by accelerating a rotor () to a very high speed and maintaining the energy in the system as . When energy is extracted from the system, the flywheel's rotational.

A typical system consists of a flywheel supported by connected to a . The flywheel and.

TransportationAutomotiveIn the 1950s, flywheel-powered buses, known as .

- • • - Form of power supply
- - High-capacity electrochemical capacitor .

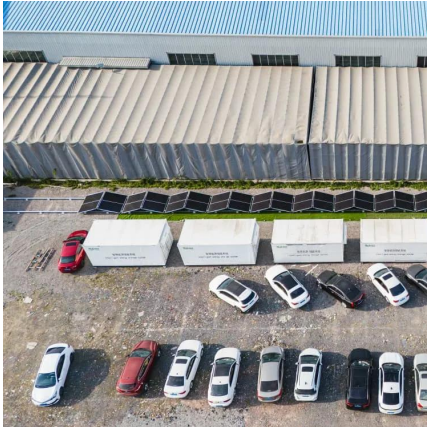
GeneralCompared with other ways to store electricity, FES systems have long lifetimes (lasting.

Flywheels are not as adversely affected by temperature changes, can operate at a much wider temperature range, and are not subject to many of the common failures of chemical . They are also less potentially damaging to the environment.

- Beacon Power Applies for DOE Grants to Fund up to 50% of Two 20 MW Energy Storage Plants, Sep. 1, 2009
- Sheahen.



Flywheel that can store energy

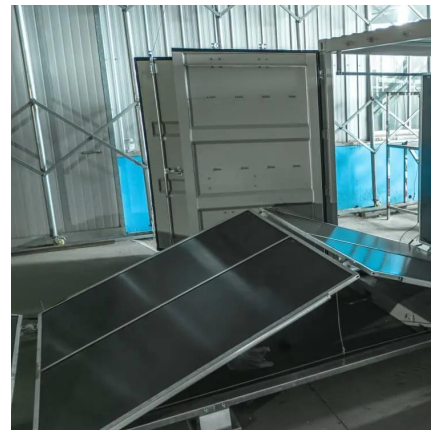


[Flywheel Energy Storage: How Energy is Stored using Flywheels](#)

Electrical energy or mechanical energy is used to spin the flywheel at great speeds and to store energy. The greater the rotational speed of the flywheel, the greater the amount of charge ...

[Flywheel Energy Storage System: What Is It and How Does It ...](#)

In a flywheel energy storage system, electrical energy is used to spin a flywheel at incredibly high speeds. The flywheel, made of durable materials like composite carbon fiber, stores energy in ...



[Flywheel Energy Storage: The Key To Sustainable Energy Solutions](#)

Flywheel energy storage is a promising technology for energy storage with several advantages over other energy storage technologies. Flywheels are efficient, have a longer lifespan, and ...

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