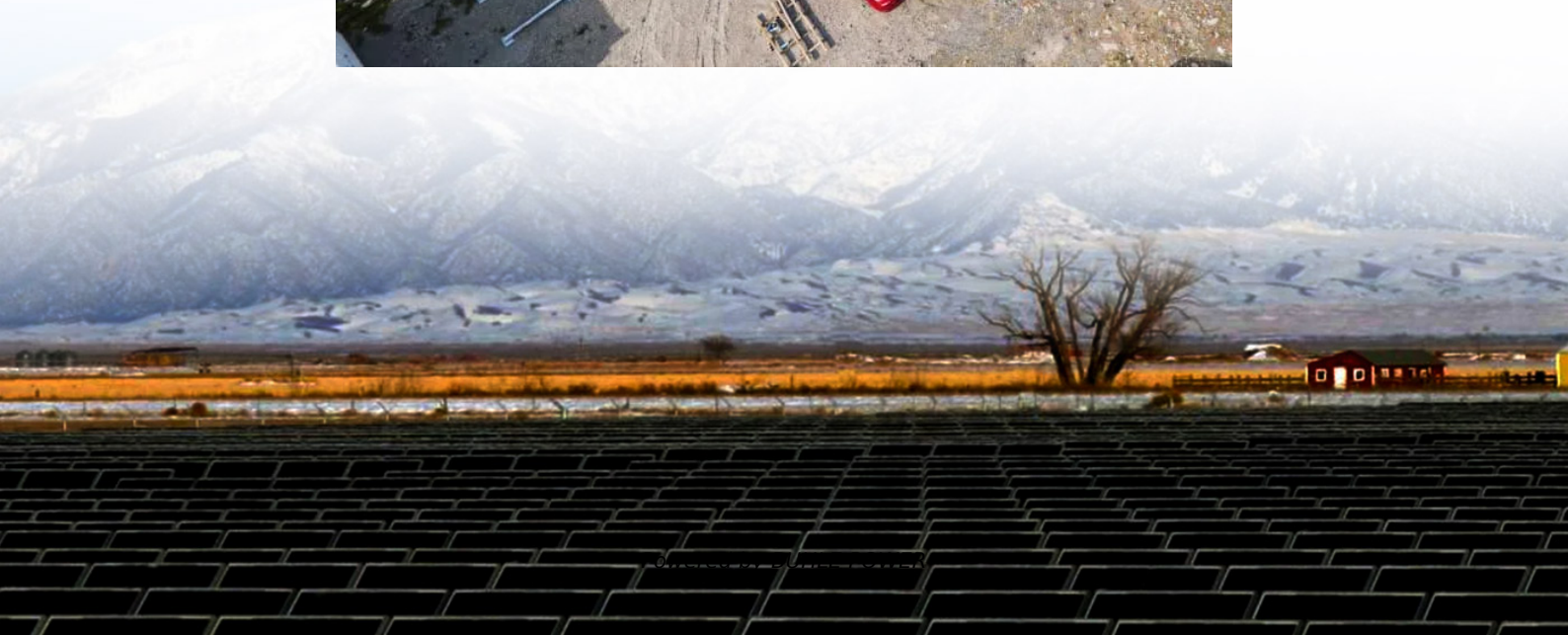


Superconducting energy storage flywheel





Overview

How does a superconducting flywheel energy storage system work?

In contrast to SMES, superconducting flywheel energy storage systems store energy in the form of kinetic energy. The system uses a motor to spin a rotor at high speed, converting electrical energy into rotational energy. When energy is needed, the motor acts as a generator, converting the rotor's kinetic energy back into electricity.

Which flywheel is suitable for energy storage?

The flywheel comprising of magnetic and supercon-ducting bearings is fit for energy storage. Supercon-ducting energy storage flywheel can be used in space for energy storage, attitude control for satellites.

How many types of high-temperature superconducting energy storage flywheels are there?

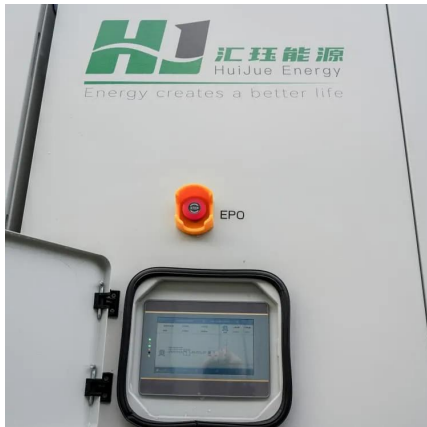
Accordingly, there are two main types of high-temperature superconducting energy storage flywheels, and if a system comprising both the thrust bearing and the radial bearing will have the characteristics of both types of bearings.

What is a flywheel energy storage system?

1. Introduction The flywheel energy storage system [1, 2] is a highly promising technology for efficient energy storage, comprising a flywheel rotor , bearings [, ,], vacuum technologies, and motor [, , , , ,].



Superconducting energy storage flywheel



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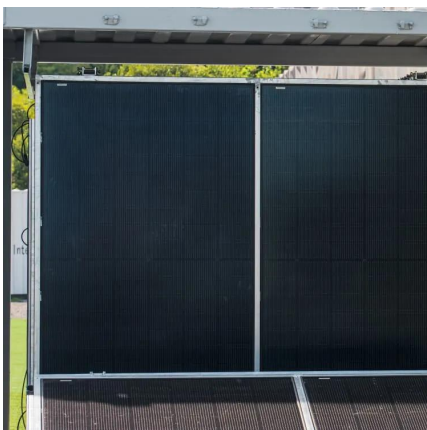
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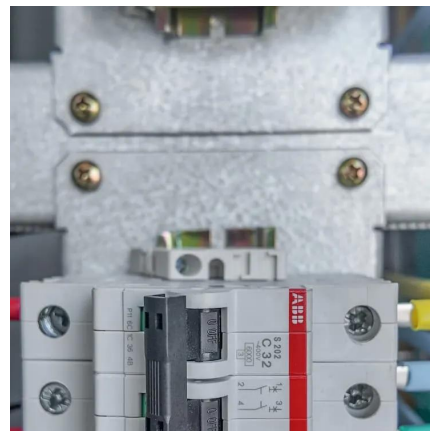


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