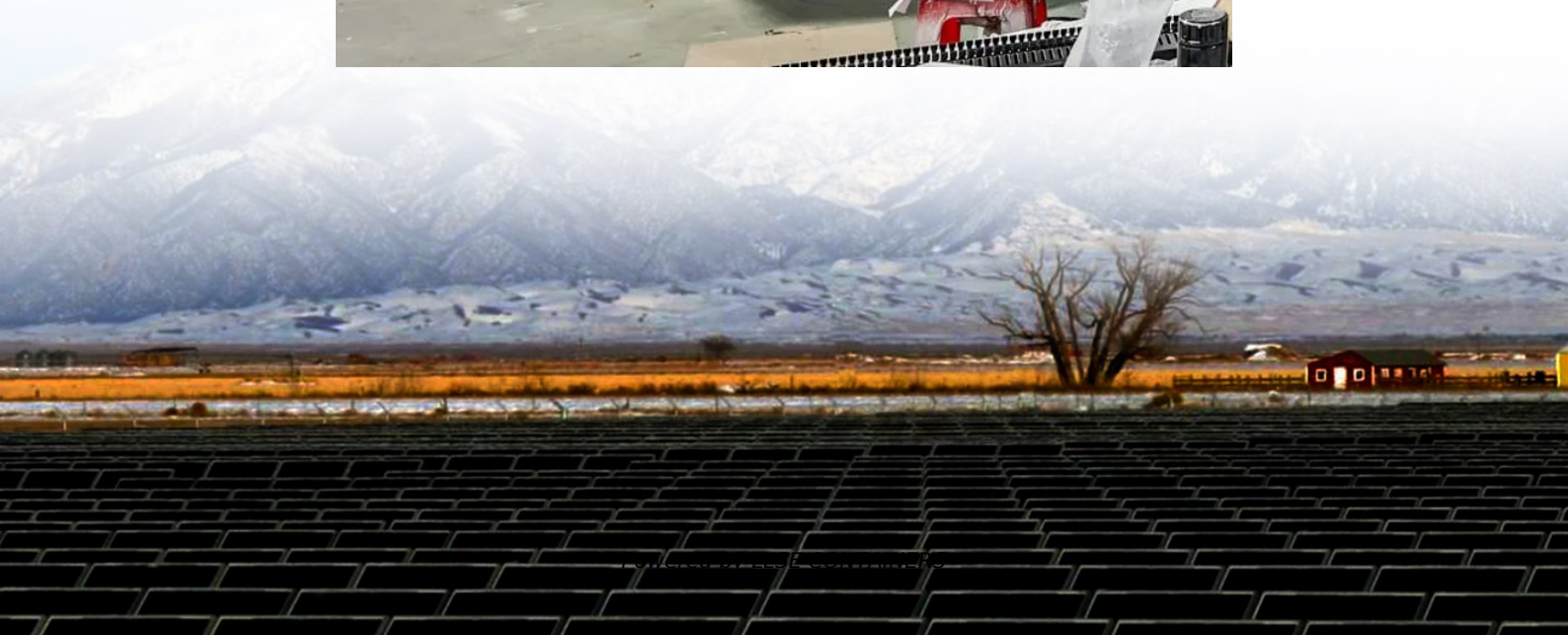


A kind of flywheel energy storage





Overview

Flywheel technology is a sophisticated energy storage system that uses a spinning wheel to store mechanical energy as rotational energy. This system ensures high energy output and efficient recovery. Are flywheel energy storage systems feasible?

Abstract - This study gives a critical review of flywheel energy storage systems and their feasibility in various applications. Flywheel energy storage systems have gained increased popularity as a method of environmentally friendly energy storage.

What is flywheel technology?

We will explore its advantages, applications across various industries, and a comparative analysis with other storage methods. Flywheel technology is a sophisticated energy storage system that uses a spinning wheel to store mechanical energy as rotational energy. This system ensures high energy output and efficient recovery.

What is a flywheel energy management system?

An effective energy management system (EMS) is essential for the optimal functioning of a flywheel energy storage system. This component controls the charging and discharging of energy, ensuring the system operates within its designed parameters. **Control Algorithms:** These algorithms manage the flow of energy to and from the flywheel.

What are the application areas of flywheel technology?

Application areas of flywheel technology will be discussed in this review paper in fields such as electric vehicles, storage systems for solar and wind generation as well as in uninterrupted power supply systems. **Keywords** - Energy storage systems, Flywheel, Mechanical batteries, Renewable energy.

1. Introduction



A kind of flywheel energy storage



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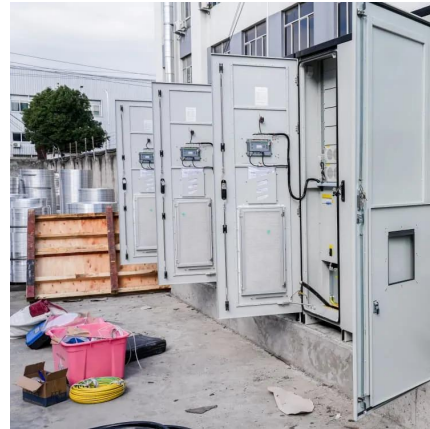


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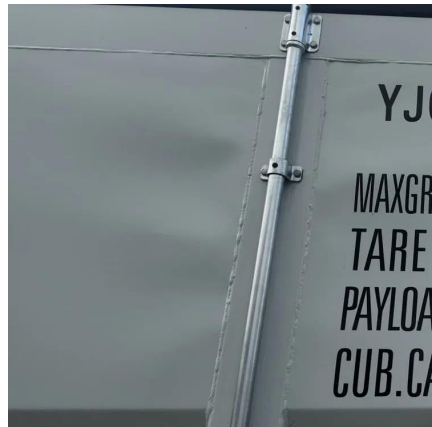


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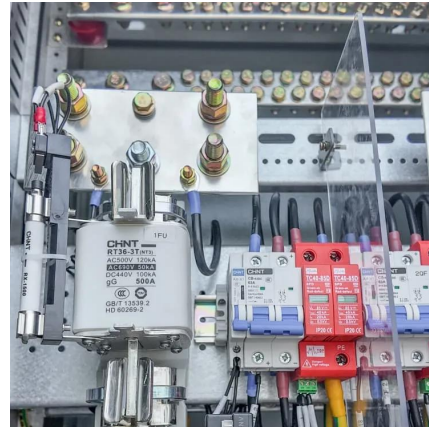
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