

Vilnius Company Flywheel Energy Storage





Overview

What makes a flywheel a great energy storage system?

The flywheel is modular and offers unparalleled configurability in terms of power to energy ratio, which makes it the first dynamic energy storage system whose discharge duration can be matched exactly to the customer's needs.

What are the benefits of a flywheel system?

2. Renewable Energy Integration These systems are particularly effective for integrating renewable energy sources, such as wind and solar. Flywheels can store excess energy generated during peak production times and release it when generation is low, ensuring a consistent energy supply.

Are flywheel energy storage systems a viable alternative to batteries?

This mismatch between supply and demand necessitates effective energy storage solutions. While batteries have been the traditional method, flywheel energy storage systems (FESS) are emerging as an innovative and potentially superior alternative, particularly in applications like time-shifting solar power.

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



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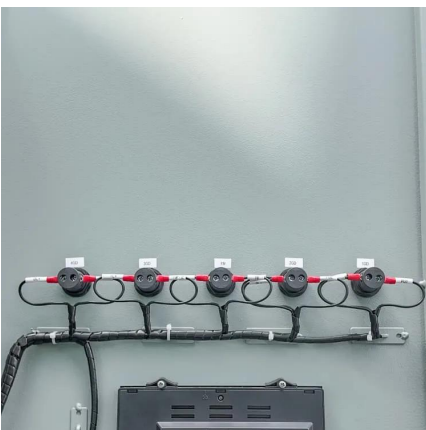
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