

## Kongres Container

# Second generation flywheel energy storage



## Overview

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In 2010, Beacon Power began testing of their Smart Energy 25 (Gen 4) flywheel energy storage system at a wind farm in Tehachapi, California. The system was part of a wind power and flywheel demonstration project being carried out for the California Energy Commission. Overview Flywheel energy storage (FES) works by spinning a rotor ( ) and maintaining the energy in the system as . When energy is extracted from the system, the flywheel's rotational speed is reduced a.

A typical system consists of a flywheel supported by connected to a . The flywheel and sometimes motor-generator may be enclosed in a to reduce fricti.

Compared with other ways to store electricity, FES systems have long lifetimes (lasting decades with little or no maintenance; full-cycle lifetimes quoted for flywheels range from in excess of 10 , up to 10 , cycles.

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