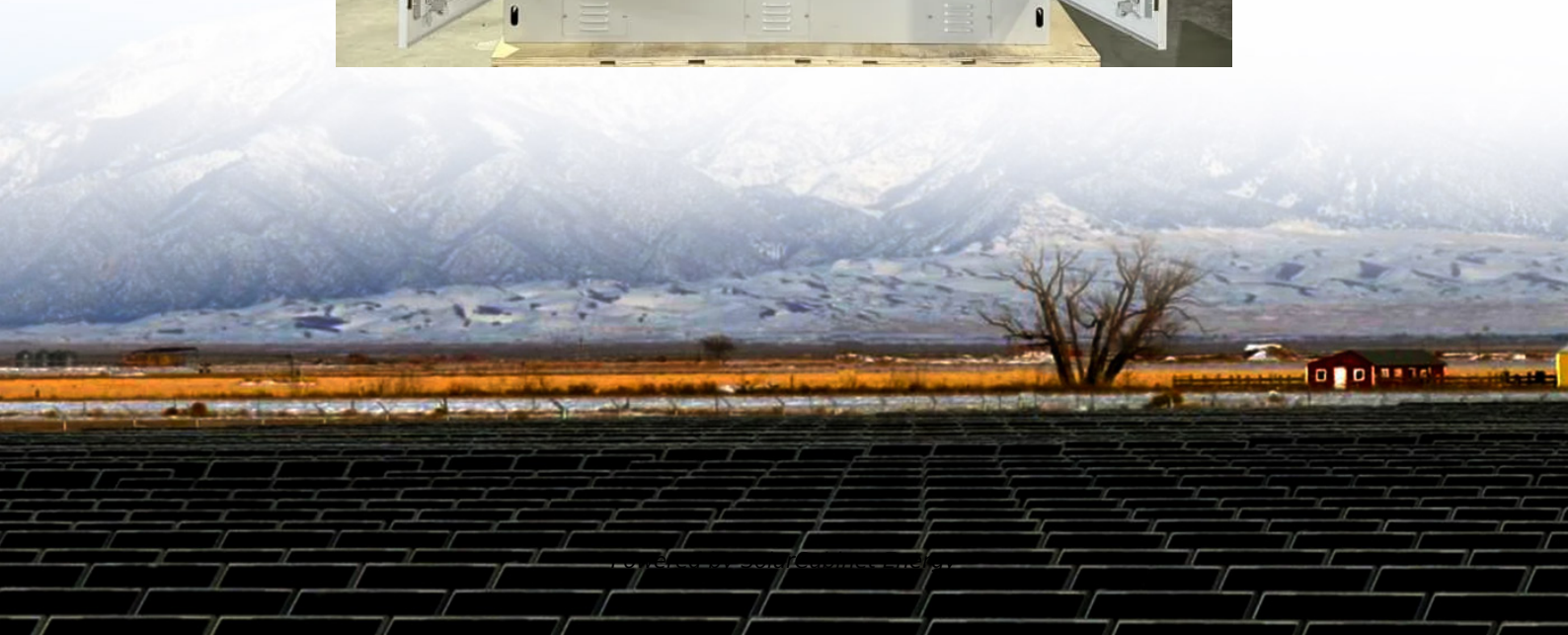


Energy storage flywheel rotor structure



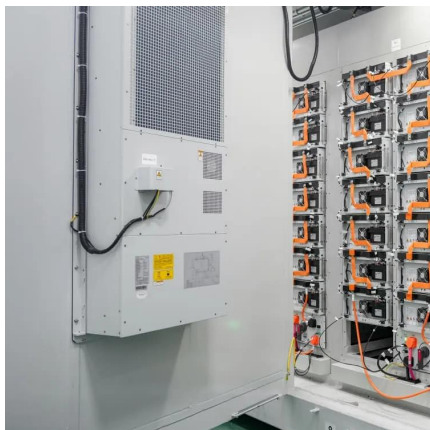


Overview

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 friction and energy loss. First-generation flywheel energy-storage systems use a large flywheel rotating on mechanical bearings. Newer systems use composite



Energy storage flywheel rotor structure

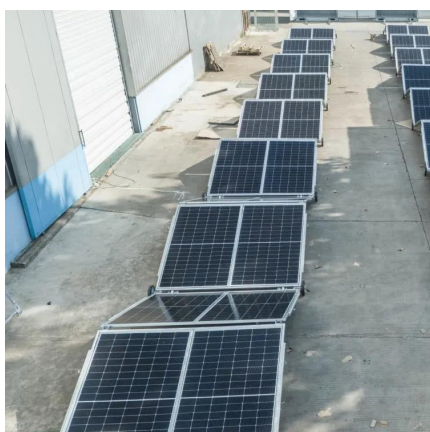


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Flywheel energy storage

OverviewMain componentsPhysical characteristicsApplicationsComparison to electric batteriesSee alsoFurther readingExternal links

A typical system consists of a flywheel supported by rolling-element bearing connected to a motor-generator. The flywheel and sometimes motor-generator may be enclosed in a vacuum chamber to reduce friction and energy loss. First-generation flywheel energy-storage systems use



a large steel flywheel rotating on mechanical bearings. Newer systems use carbon-fiber composite rotors

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