

## A-Core Container

# South Ossetia flywheel energy storage solar power generation



## Overview

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Flywheel energy storage (FES) works by accelerating a rotor (flywheel) to a very high speed and maintaining the energy in the system as rotational energy. When energy is extracted from the system, the flywheel's rotational speed is reduced as a consequence of the principle of conservation of energy; adding energy to the system correspondingly results in an increase in the speed of the flywheel. Main componentsA typical system consists of a flywheel supported by a bearing connected to a motor-generator. The flywheel and motor-generator may be enclosed in a housing to reduce friction.

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 10,000 to 100,000 cycles).

In the 1950s, flywheel-powered buses, known as "wheelbuses", were used in the United States and the United Kingdom and there is ongoing research to make flywheel systems that are smaller, lighter, cheaper and have a longer lifetime.

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