Homemade flywheel energy storage device picture hd

What is a flywheel energy storage system?

A flywheel energy storage system is a type of energy storage system where the power and energy capacity can be independently sized for each application. Near-term applications include on-site or user-site storage,rather than utility storage directly. Future possibilities include solar and wind power applications.

How does a generator flywheel work?

Generator flywheel and diesel were on one axis with a coupling towards the diesel. The flywheel was constructed as an engine around that axis,so the stator is the axis at 1500 rpm and the flywheel turns around at max. 4400 rpm. If energy needs to be provided,the outer rotor is slowed down by a brake in that axis,so the energy is transferred

Do you need a vacuum chamber for a flywheel storage system?

Magnetic bearings and a vacuum sealed chamber are the must. I'm not getting in the argument about a true vacuum but it's sealed in a vacuum housing. They have several commercial flywheel storage systems up and running in the United States. And yes,when it goes bad,it's instantaneous.

What happens if a flywheel goes bad?

They have several commercial flywheel storage systems up and running in the United States. And yes,when it goes bad,it's instantaneous. The commercial systems have an emergency back up to shut down the system and flood the flywheel container with water if I remember correctly. The flywheel breaking up into pieces is the downfall.

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