# Diy flywheel energy storage video

How efficient is flywheel energy storage?

Datasheet from a long term flywheel energy storage retailer shows their solution at ~86%efficient. The full details give a better view: a 32kWh storage what consumes 55W when idle and consumes 140W when charging/discharging at 8kW. For off-grid where you store the power for 20 hours at time the 55W draw will be pretty costly.

How does a flywheel energy storage system work?

Assuming these flywheel energy storage systems use a cheap/simple "bulk" vacuum pumpthat goes down to maybe 10^-3 bar,there's still plenty of air particles around for the flywheel to hit. The flywheel still exceeds the speed of sound in the relative vacuum but it reduces the air resistance and magnitude of the shockwave

How much energy does a flywheel use?

The flywheel in an all-electric propulsion system is assumed to have an energy storage capacity of 0.5 kWhand weigh 35 kg. It is assumed to use 75%of its total energy stored,which implies a practical speed range of half the total speed range(from half the maximum speed to the maximum speed).

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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