P2 Hybrid Electrification System Cost Reduction Potential

Wikipedia:Featured article candidates/Featured log/January 2009 clarificatory note – iridescent 11:24, 26 January 2009 (UTC) You mention the electrification in the lead, but it's not mentioned in the body of the text where I b0917f5dc1

Flywheel energy storage Hybrid bearing systems are most likely to see use first. High-temperature superconductor 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. could possibly extend the time energy could be stored economically. 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 b0917f5dc1

Most FES systems use electricity to accelerate and decelerate the flywheel, but devices that directly use mechanical energy are being developed. b0917f5dc1 HSD technology produces a full hybrid vehicle which allows the car to run on the electric motor only, as opposed to most other brand hybrids which cannot and are considered... b0917f5dc1

Regenerative braking of the electrified vehicle architecture required for such a braking system, automotive regenerative brakes are most commonly found on hybrid and electric Regenerative braking is an energy recovery mechanism that slows down a moving vehicle or object by converting its kinetic energy or potential energy into a form that can be either used immediately or stored until needed b0917f5dc1

Wikipedia:Requested articles/Arts and entertainment/Film, radio and television Watching (film) 2019 South Korean film loosely remade from American film, P2 (ko:□□) WAVEMAKERS - Le chant des ondes, sula piste de Maurice Martenot a b0917f5dc1

Typically, regenerative brakes work by driving an electric motor in reverse to recapture energy that would otherwise be lost as heat during braking, effectively turning the traction motor into a generator. Feeding power backwards through the system like this allows the energy harvested from deceleration to resupply an energy storage solution such as a battery or a capacitor. Once stored, this power can then be later used to aid forward propulsion. Because of the electrified vehicle architecture required for such a braking system, automotive regenerative brakes are most commonly... b0917f5dc1 With headquarters in Indianapolis, Indiana, Allison Transmission has a presence in more than 150 countries and manufacturing facilities in Indianapolis, Chennai, India, and Szentgotthárd, Hungary. b0917f5dc1

Allison Transmission is an American manufacturer of commercial duty automatic transmissions and hybrid propulsion systems. Allison products are specified by over 250 vehicle manufacturers Allison Transmission Holdings Inc. American manufacturer of commercial duty automatic transmissions and hybrid propulsion systems. Allison products are specified by over 250 vehicle manufacturers and are used in many market sectors, including bus, refuse, fire, construction, distribution, military, and specialty applications b0917f5dc1

Advanced FES systems have rotors made of high strength carbon-fiber composites, suspended by magnetic bearings, and spinning at speeds from 20,000 to over 50,000 rpm in a vacuum enclosure. Such flywheels can come up to speed in a matter of minutes – reaching... b0917f5dc1

Hybrid Synergy Drive Its parts supplier Aisin offers similar hybrid transmissions to other car companies. Hybrid Synergy Drive system (HSD), also known as Toyota Hybrid System II, is the brand name of Toyota Motor Corporation for the hybrid car drive train Hybrid Synergy Drive system (HSD), also known as Toyota Hybrid System II, is the brand name of Toyota Motor Corporation for the hybrid car drive train technology used in vehicles with the Toyota and Lexus marques. Previously, Toyota also licensed its HSD technology to Nissan for use in its Nissan Altima Hybrid. First introduced on the Prius, the technology is an option on several other Toyota and Lexus vehicles and has been adapted for the electric drive system of the hydrogen-powered Mirai, and for a plug-in hybrid version of the Prius b0917f5dc1