

# Peoples Hybrid Corporation provides Demo of New Hybrid Technology

**Burnaby, BC February 9<sup>th</sup>, 2008**

Peoples Hybrid Corporation showcased a new automotive technology that can save big for commuters with short commutes. This new hybrid technology removes overhead power losses from regular ICE engines that are most pronounced when cold engines are started. This auxiliary power unit removes the power take-off load from the engine's alternator by using a DC-DC converter run off a separate battery pack which is recharged when parked and plugged in. If the auxiliary pack runs too low, the vehicle's regular alternator takes over, delivering power to the low voltage system. This elegant solution enables the traction engine to run at significantly higher efficiencies, particularly when the short commuter distances are involved. The power to recharge the battery-pack can be cheaply sourced through a plug-in connection to the regular electrical grid when the vehicle is parked, thereby taking advantage of the energy savings inherent in the difference between gasoline and electricity costs. Prototype units have already demonstrated as much as 43% increase in fuel efficiency on a typical 15km commute using a Toyota Prius.

Technical advisors Steve Szabo, Adrian Bolden, Earl Schmidt, Jeff Franchini, Steve Toplak, Gilles Brule and Orlando Vazquez were on hand for the demonstration. PHC is in the process of seeking financial assistance through NRCan's IRAP program, and hopes to have a kit ready for consumers upon completion of the prototyping and testing.



The group oversees installation into a Cadillac SUV



A close-up of the Board, control box, system interface and prototype DC-DC converter

The technology is simple yet effective. Heavy electrical loads such as electric defrosting, air conditioning, heated seats and lighting loads removed from the ICE engine's load during warmup. This removes the additional load of the alternator from the traction engine which can be a significant portion of total energy required during typical urban commuting. By taking away this load usually generated through internal combustion and replacing it with the utility supplied by BC Hydro, users not only save money in the long run, they also help the environment from unnecessary greenhouse gases.

## RESEARCH VOLUNTEERS WANTED

To generate baseline information, PHC is seeking volunteers to record fuel consumption for various commutes from a cold start. Contact PHC for information.

## FOR MORE INFORMATION:

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