

NEWS RELEASE

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**Sacré-Davey Innovations announces the
Official Kick-Off Event for the
BC Hydrogen Highway's
Integrated Waste Hydrogen Utilization Project's
Demonstration Phase**

NORTH VANCOUVER, British Columbia, October 19, 2007 — Sacré-Davey Innovations, together with consortia partners Westport Innovations and Sacré-Davey Engineering, are pleased to announce the official Kick-off Event of the Integrated Waste Hydrogen Utilization Project (IWHUP) that is part of the BC Hydrogen Highway suite of initiatives. The Kick-off and Open House are located at the corner of Main Street and Mountain Highway in North Vancouver adjacent to the Easywash Carwash.

The IWHUP demonstrations now underway will showcase real world use of by-product hydrogen as a clean fuel in transit buses, shuttle buses, pickup trucks and a fuel cell power plant along with the required distribution and fuelling infrastructure.

The five-year IWHUP has over 20 partners and culminates with this two year fully integrated demonstration phase. This project was made possible due to a contribution of \$6.0 million from the Hydrogen Early Adopters (h2EA) program under Industry Canada, \$5.9 million from Sustainable Development Technology Canada (SDTC), and \$1.6 million from Natural Resources Canada's Canadian Transportation Fuel Cell Alliance program, in addition to funding from the US DOD's 2004 Climate Change Fuel Cell Program. This leverages an industry contribution of \$6 million.

The IWHUP, a key part of the BC Hydrogen Highway, strengthens Canada and British Columbia's lead in the advancement and adoption of hydrogen technologies, and is garnering world-wide attention as the model of the much needed stepping stone required to move society towards the Hydrogen Age – one of the fundamental keys to reducing climate change and a sustainable future.

Project specifics:

To realize the "Clean Fuel" opportunities provided by unused (wasted) by-product hydrogen streams across Canada and around the world, an integrated approach and financial investment is required from industry as well as government. IWHUP sources its hydrogen from a vented industrial waste stream in North Vancouver that could provide fuel to a fleet of close to 20,000 hydrogen vehicles if fully harnessed. The North Vancouver source is just a small portion of the hydrogen vented annually in Canada.

At Newalta's North Vancouver waste oil processing site, HTEC (Hydrogen Technology & Energy Corp) has built a modular hydrogen purification and compression plant, to recover and process the

hydrogen. HTEC's CORE technology integrates with QuestAir's Pressure Swing Adsorption gas purification equipment to deliver pure hydrogen meeting the exacting requirements of today's fuel cells.

The purified hydrogen is distributed using Dynetek's new 450bar(6500psi) Transport Canada approved carbon-fibre / aluminium cylinder modules called PowerCubes and developed specifically for IWHUP.

Westport Innovations has repowered four TransLink Compressed Natural Gas (CNG) buses to use Hydrogen and Compressed Natural Gas (HCNG). Each bus will run on 20% hydrogen mixed with 80% compressed natural gas on a volume basis resulting in a cleaner burning fuel with less NOx emissions and lower GHG's produced.

Clean Energy has engineered an HCNG fuelling station at TransLink's Port Coquitlam facility and is providing the required HCNG fuelling services to the bus fleet.

BC Hydro's technology subsidiary, Powertech Labs and Sacré-Davey Engineering teamed up to create a modular, space efficient hydrogen fuelling station to service a fleet of Hydrogen – Internal Combustion Engine (H-ICE) shuttle buses and pickup trucks. It is located on Dollarton Highway in North Vancouver and is called the Northlands Station.

Nine 100% Hydrogen Internal Combustion Engine (H-ICE) pickup trucks provided by Powertech Labs will use the fuelling station. Sacre-Davey, Powertech Labs, the City of North Vancouver, the District of North Vancouver (Northlands Golf Course), Mutual Construction and the Port of Vancouver will thoroughly test these vehicles during the 2 year vehicle evaluation program. Performance data will be gathered including emissions and the effects of hydrogen on all components through a cooperative effort with the US Department of Energy.

Ford Motor Company of Canada is providing up to three 100% H-ICE powered production line style, 12 seat shuttle busses to add to the IWHUP fleet. These buses will be used by local agencies including the North Shore GO Bus for elderly transportation support.

A 150 kW Proton Exchange Membrane (PEM) fuelcell from Nuvera is powering Easywash's environmentally friendly car wash in North Vancouver. It was integrated by Sacré-Davey to provide power to the carwash or the BC Hydro grid along with heat for the water used for cleaning cars.

The complex and comprehensive Integrated Waste Hydrogen Utilization Project shows the complete value chain of hydrogen. It is unique, progressive and real. Site and facility tours are available on request.

For more information:

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