

CONTRACTS FOR HYDROGEN BUS FLEET FINALIZED



Backgrounder

December 10, 2007 -- BC Transit has awarded a six year \$20 million contract to supply hydrogen for the Province's 20 new fuel cell buses.

The hydrogen supply for fuel cell bus fleet will be produced from clean technologies (hydro-electricity and recovered waste gas). Zero emissions are produced when hydrogen comes from a renewable energy source. Used in a fuel cell, hydrogen combines with oxygen in the air to produce electricity to power the vehicle, with water as the only emission.

Fuel Cell Bus Fleet

BC Transit will deploy the world's first fleet of 20 fuel cell buses and hydrogen infrastructure to be integrated into the regular operational service of an urban transit system. This fleet operation will allow monitoring and evaluation of operations, maintenance and fuelling over a sustained period.

Implementation Calendar:

2008	completion of fueling station in Victoria pre-production bus arrives in Victoria
2009	completion of fueling station in Whistler buses arrive and the fuel cell bus fleet starts regular service in Whistler
2010	fleet used to showcase Canadian technology at the 2010 Winter Games in Whistler
2010+	fleet continues regular operations with a 20-year life span for each bus

Hydrogen & Station Supplier:

Air Liquide Canada Inc., Montreal, PQ

Subcontractors:

Site engineering and maintenance Gaseous Hydrogen Supply	Sacre-Davey Group, North Vancouver, BC Hydrogen Technology and Energy Corporation, North Vancouver, BC
Electrolyser & support	Hydrogenics Corporation, Mississauga, Ontario

Bus Suppliers:

Bus manufacturer	New Flyer Industries, Winnipeg, Manitoba
Hybrid Drive Systems	ISE Corporation, San Diego, California
Fuel Cell Modules	Ballard Power Systems, Burnaby, BC
Hydrogen Storage	Dynateck, Calgary, Alberta

BC Transit

BC Transit is the provincial crown agency that provides planning, marketing, fleet and funding support for all transit systems in British Columbia, outside the Greater Vancouver region. BC Transit carried a total of 42.5 million passengers in 2006/07, an increase of over 4% over the previous year. The program includes 77 transit systems across British Columbia outside Greater Vancouver.

The deployment of the fuel cell bus fleet meets BC Transit's objective to identify and adopt new technologies to enhance customer service, improve air quality and reinforce transit's community benefits.

This project supports British Columbia's Hydrogen Highway and complements the activities of the Hydrogen Bus Alliance in which BC Transit has an integral part. The Alliance includes representatives from public transport authorities, international cities and regions that have demonstrated a commitment to hydrogen transportation. www.hydrogenbusalliance.org

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Air Liquide Canada Ltd.

A leading global provider of industrial, medical and specialty gases, Air Liquide has more than 40 years of expertise in the hydrogen business driving innovative and sustainable solutions to customers. The company is actively developing the entire hydrogen energy supply chain, from H₂ research and fuel cell production to distribution and applications. Air Liquide's existing hydrogen infrastructure includes the world's longest pipeline network and the installation of hydrogen vehicle refuelling stations around the globe, including Canada. The company is involved in more than 20 projects in North America alone to demonstrate the safe use of hydrogen in over 30 industrial applications. By investing in clean hydrogen solutions with partners in the private and public sectors, Air Liquide continues to drive technological innovation that will enable Canada's hydrogen infrastructure and energy future.

Quote:

"We are honoured to have been selected by BC Transit to provide hydrogen to the company's fuel cell-powered fleet of 20 transit buses that will operate in Victoria and Whistler and be demonstrated in other parts of the province," said Luc Doyon, President and COO of Air Liquide Canada. "In addition, we will provide three fuelling stations that will be the largest H₂ stations in the world and key components of the fuelling infrastructure of British Columbia's Hydrogen Highway. As we near the 2010 Vancouver Olympics, Air Liquide is excited to have a front row seat with BC Transit to show the world how innovative fuel cell technologies can power the Canadian economy and protect our environment."

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Sacré-Davey Group

The Sacré-Davey Group (SDG) offers a broad range of services for project delivery including project management, engineering design, systems integration, and product development. SDG is the preferred choice of multi-disciplined projects where elements of process, electrical, mechanical, structural, and civil engineering combine to make a system. The efficient, flexible group is made up of 4 divisions: Sacré-Davey Engineering (SDE), Sacré-Davey Innovations (SDI), Sacré-Davey Structures (SDS), and Sacré-Davey Group International (SDGI).

Sacré-Davey Innovations is the lead partner in the Integrated Waste Hydrogen Utilization Project (IWHUP) that is part of the BC Hydrogen Highway's suite of initiatives.

Quote:

"This is a great day for clean transportation in Canada. BC Transit's leadership in GHG reduction, commitment to clean air, and advancement of hydrogen technologies is world leading, and to be commended. The Sacré-Davey Group is proud to be working with BC Transit, Air Liquide, HTEC and Hydrogenics to make this initiative a reality" – Chris Sacré

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HTEC Hydrogen Technology & Energy Corporation

HTEC is developing and delivering a complete suite of leading edge by-product hydrogen purification systems, hydrogen distribution infrastructure solutions, and end use hydrogen applications. The company's pilot hydrogen capture and purification facility is located between two electro-chemical plants in North Vancouver that produce enough hydrogen to fuel 20,000 passenger vehicles annually. HTEC is dedicated to helping provide sustainable energy solutions using hydrogen and technology.

Quote:

"HTEC is proud to be working with consortium members and BC Transit to advance clean green transportation technologies here in British Columbia. HTEC will provide clean hydrogen recovered from an industrial waste stream to the consortium for use in the hydrogen fuel cell buses. The deployment of the hydrogen fuel cell technology will significantly contribute to the Province's goal to reduce GHG emissions. This is a major initiative that will lead the way to a more sustainable future." – Rick Hopp

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Hydrogenics

Hydrogenics Corporation is a globally recognized developer and provider of hydrogen generation and fuel cell products and services, serving the growing industrial and clean energy markets of today and tomorrow. Based in Mississauga, Ontario, Canada, Hydrogenics has operations in North America, Europe and Asia.

Quote:

"Hydrogenics is very pleased to be working with one of our longest standing partners, Air Liquide, to deliver the core hydrogen generation system for the new refueling station in Victoria," commented Daryl Wilson, Hydrogenics President and CEO. "This is very much a 'world stage' initiative that BC Transit is undertaking and Hydrogenics is proud that our time-proven HySTAT electrolyzer product is part of their commitment to a zero emission bus fleet."

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