MEMBER NEWS

Sunline Transit Agency And HyRadix Inc. Announce First Hydrogen Fueling Station Open to the Public

By Polo Del Toro, Associate Engineer for Alternative Fuels, SunLine Transit Agency and David Cepla, Vice President of Business Development, HyRadix Inc.

The day when hydrogen will be a major fuel source for America's vehicles moved another step closer on November 2, 2006, with the official opening of the nation's first large-scale hydrogen facility in the United States using commercialized technology available for third-party refueling purposes.

Drivers of hydrogen-powered vehicles now can simply pull up to the hydrogen "pump" at SunLine Transit Agency in Thousand Palms, California, have an attendant refuel their vehicle and pay for their purchase with a credit card or cash. SunLine is a national leader in clean-fuel public transit, operating its entire fleet on alternative fuels including compressed natural gas (CNG), liquid natural gas (LNG), hydrogen (H2) and a blend of 80 percent CNG and 20 percent H2 (HCNG).

Both the hydrogen used by SunLine's vehicles and that sold to retail buyers is produced on-site using a HyRadix Adéo™ hydrogen fuel generator, the only commercially proven on-site system with output capacity scaled for transportation applications. It was installed at SunLine in August 2006 following a successful two-year test of a prototype system. Testing was funded through the United States Department of Energy and the South Coast Air Quality Management District (SCAQMD). HyRadix systems employing the proprietary technology of the Adéo units are in full-scale industrial use around the globe.

SunLine's fueling station site prominently stands out in Thousand Palms, California

"The commercial success of the HyRadix hydrogen generator, which is producing hydrogen every day on-site at SunLine, is another important milestone on the path to the hydrogen fuel cell future," said Catherine Dunwoody, Executive Director of the California Fuel Cell Partnership, at a recent November event at SunLine's facility. The event was attended by dignitaries, interested business parties and the media, who joined HyRadix and SunLine representatives in celebrating the achievements in clean-fuel transportation and technological breakthroughs in on-site hydrogen generation.

During a visit to SunLine Transit Agency in October, Federal Transit Administrator James Simpson, along with Congresswoman Mary Bono, announced that SunLine and its research partners will receive $2.8 million to design and demonstrate 40-foot fuel cell buses, and to evaluate their performance in a hot desert climate. SunLine is also among those receiving $3.6 million to test the life expectancy of an existing line of fuel cell buses.

The SCAQMD co-funded the new hydrogen generator and will also provide additional funding for other SunLine hydrogen station upgrades, including the installation of a new card reader to allow for SunLine fleet cards and credit cards. The project is expected to be completed within the 90 days.

See FUELING STATION, page 4

NHA NEWS

The *NHA News* is the quarterly newsletter of the National Hydrogen Association. Subscription price is included in member dues.

Editors
Debbi Smith
Brian Schorr
André Cutair

National Hydrogen Association
1800 M Street, N.W., Suite 300
Washington, DC 20036-5802, U.S.A.
Phone: +1.202.223.5547
Fax: +1.202.223.5537
Web: www.HydrogenAssociation.org
Email: info@HydrogenAssociation.org

Managed by Technology Transition Corporation

MEMBER NEWS

FUELING STATION, from page 3

"Our partnership with HyRadix serves as a shining example of what can be achieved with government support for technology research in developing a feasible energy solution for our country," added Mikel Oglesby, SunLine general manager.

Before installing the HyRadix prototype in April 2004, SunLine relied on hydrogen delivered by an industrial gas supplier to fuel its hydrogen-powered vehicles. Generating hydrogen on-site with the test Adéo system enabled SunLine to cut the fully loaded price of hydrogen in half while eliminating exposure to supply interruptions and price instability. Throughout the demonstration project, the Adéo generator produced hydrogen of 99.9 – 99.9999 percent purity.

"We are proud to be involved with innovative and forward-thinking organizations like SunLine who are paving the path to a global hydrogen economy," said Robert L. Gray, Jr., chief executive officer and president of HyRadix. "Our joint efforts over the last three years have helped make hydrogen a viable and available energy source for Southern California."

HyRadix SunLine Transit Agency General Manager Mikel Oglesby (far right) celebrates a milestone achievement - the installation and commercial operation of the first large-scale, hydrogen facility using commercialized technology and available for third-party refueling purposes.

Joining Oglesby for the celebration included (from L-R) HyRadix CEO and President Robert L. Gray, Jr., Riverside County 4th District Supervisor and Vice Chairman of the SCAQMD Roy Wilson, SunLine Chairman of the Board and Councilmember Michael Wilson, and Executive Director of the California Fuel Cell Partnership Catherine Dunwoody.

NHA Welcomes New Members

ConocoPhillips

ConocoPhillips is the third largest integrated energy company in the United States. It has extensive hydrogen production facilities and operatres one of two storage caverns in the world. ConocoPhillips is active in the Department of Energy's FreedomCAR and Fuel partnership programs.

For more information, visit http://www.conocophillips.com.

HTS Enterprise LLC

HTS Enterprise LLC provides engineering consulting services including energy, nuclear power, engineering, environmental, construction, transportation and quality assurance and control.

For more information, visit http://www.htsenterprise.com.

NETL

The National Energy Technology Laboratory (NETL), part of DOE's national laboratory system, is owned and operated by the U.S. Department of Energy (DOE). NETL supports DOE's mission to advance the national, economic, and energy security of the United States.

For more information, visit http://www.netl.gov.