

EVERY™ ALTERNATIVE. News Update

Cummins Westport **NEWS NOTES**

- **ISL G engine unveiled at the IAA International Motor Show in Hanover, Germany** - The ISL G represents the next generation of gaseous fuelled engines that combines ultra low emissions with improved performance and reduced operating costs. Visit <http://www.cumminswestport.com/corporate/media.php> for more details.
- **Look for Cummins Westport at the following transit & bus conferences:**
 - **CUTA (Canadian Urban Transit Association) Fall Conference & Trans-Expo** ◇ Nov 4-8 in Toronto, Ontario <http://cutaactu.ca/en/toronto>
 - **California Transit Association 41st Annual Fall Conference & Exposition** ◇ Nov 7-9 in Long Beach, California <http://www.caltransit.org/upload/CTA41AnnualFallConference.htm>
 - **Euro Bus** ◇ Nov 7-9 in Birmingham, UK <http://www.eurobusxpo.com/homepage.htm>

Focus on **SALES & MARKETING**

Refuse Trucks Get Cleaner in New York

Smithtown, NY -- Clean Energy, leading U.S. provider of clean-burning natural gas fuel, and Hallahan Truck Sales, Holtsville, NY, a natural gas refuse truck dealer, hosted special ceremonies in Smithtown on Sept. 19 to salute Smithtown's commitment to ensuring a clean-air environment.

Smithtown is the first municipality in New York State to convert its entire refuse fleet from diesel to environmentally-friendly natural gas. Clean Energy operates a public access natural gas fueling station in nearby Hauppauge, which, when current upgrade efforts are complete, will be the largest such facility on the East Coast.

New York Governor George Pataki, on hand to address guests at the Clean Energy ceremonies, said, "Compressed natural gas has emerged as a viable, environmentally-safe alternative to gasoline and diesel."

Town of Smithtown Supervisor, Patrick Vecchio, commented, "We've looked at the facts and the move to alternative energy is necessary now. Natural gas fuel is cheaper than diesel fuel and the supplies are available here in North America, which reduces our dependence on foreign oil. When you add that to the environmental benefits of using natural gas instead of diesel fuel, the choice is clear."

Source: Clean Energy. For more information visit <http://www.cleanenergyfuels.com/smithtown.html>

Focus on **SERVICE & TECHNOLOGY**

Why Natural Gas Engines for Truck & Bus?

Cummins Westport's 8.9 liter ISL G is built on the Cummins ISL diesel platform and features Cummins key emissions technology such as cooled exhaust gas recirculation (CEGR) and a Three Way Catalyst (TWC). The Cummins Westport ISL G offers three key benefits.

1. Emissions Leadership - the ISL G utilizes stoichiometric combustion, cooled EGR and a three way catalyst, and will be certified to EPA and CARB 2010 emission levels at launch in 2007.
2. Economic Benefits – with improved efficiency and continued reliability improvements, especially in high

fuel use applications, the ISL G can offer reduced operating costs.

3. Energy Security – the ISL G can run on CNG (compressed natural gas) or LNG (liquid natural gas), thus reducing the dependence on imported oil, and offering a pathway to future technologies using hydrogen.

The ISL G is ideal for a medium- and heavy-duty applications such as transit & refuse.

For more information and product specifications visit <http://www.cumminswestport.com/products/islg.php>

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Focus on **INDUSTRY**

Peru ♦ CNG Stations Growing

Lima - Peru's Minister for Energy and Mines, Juan Valdivia has inaugurated Peru's latest compressed natural gas (CNG) station, bringing the total number to three, and preceding several more expected in the near term. Refueling equipment for the station was supplied by Aspro of Argentina, via local agent Maquinas y Tecnología SAC (Machines and Technology SAC), a first for the company in Peru.

Despite the low number of stations, CNG is already proving popular in Peru, with an average 25 vehicle conversions happening per day and more than 3,300 natural gas vehicles (NGVs) on Lima's roads already. The city has also hosted two major natural gas vehicle conferences and exhibitions this year. Lima is expected to have ten CNG stations and 10,000 NGVs operational by the end of 2007. Source - NGV Global Thursday, 12 October 2006

Korea ♦ Only CNG Buses to Operate in Seoul in 2010

Seoul - The Seoul Metropolitan Government plans to allow only buses that run on environmentally friendly compressed natural gas, known as CNG, on the streets of Seoul beginning in 2010. The measure is intended to reduce pollution.

Currently, 2,798 of Seoul's 7,766 registered city buses are CNG buses, and the rest are diesel-powered vehicles.

The city government said Tuesday that it will require bus operators to replace the 4,256 diesel-powered buses with new CNG-powered vehicles by 2010. Under Korean transportation law, bus operators are

prevented from using a vehicle for more than nine years. The city government will invest 96.8 billion won to adopt to environmentally friendly buses and provide bus operators with 22.7 million won* in subsidies for every CNG bus purchased.

CNG buses costs about 94 million won per unit, compared to 67.7 million won for a diesel bus.

**1.00 KRW South Korea Won = 0.00103761 USD*

Source: Only CNG Buses to Operate in Seoul in 2010, Korea Times, Sept 18, 2006

USA ♦ Landfills Begin to Count as Sources of Biogas

Maryland - The Environmental Protection Agency is encouraging industries generating methane, including landfill operators, to stop releasing the gas into the air and cash in on its energy value. In Maryland, businesses and local governments are taking note and teaming up to generate energy from the methane gas produced by decomposing garbage buried in landfills.

Engines have begun to generate up to 3 megawatts of electricity—enough to power 1,900 homes—from the methane-laden gas collected at Baltimore County's Eastern Sanitary Landfill and Anne Arundel County officials have announced plans to sell the gas yielded by the county's 564-acre landfill to Fort Meade Army base.

Source: Landfills Stink of Energy, Money, The Baltimore Sun Oct 7, 2006

INDIA ♦ HCNG Vehicles to Begin Operating in India

New Delhi - Five years after New Delhi began introducing CNG in public transport, it will become the first Indian city to install a hydrogen-dispensing station. The station will be able to dispense both pure hydrogen and a 10 percent hydrogen/90 percent CNG blend. By year-end, at least five HCNG vehicles, already sitting in an Indian Oil Corporation R&D center, will be operating. Last November, the Central government unveiled a roadmap prepared by the Hydrogen Energy Board to put 1 million hydrogen-fuelled vehicles on the country's roads by 2020 through public-private initiatives. The government pledged over US\$20 million to a hydrogen fuel

initiative to develop the technology for commercially viable hydrogen-powered fuel cells to run cars, trucks, and homes.

The 10 percent blend will allow the same internal combustion CNG engine to work without any changes, thus reducing the otherwise significant technological cost. Indian officials have stated that the blend not only improves the thermal efficiency of the fuel, it reduces NOx emissions by 30-40 percent. It is expected that the use of HCNG will also facilitate the entry of hydrogen as a transportation fuel.

Source: NGVAmerica