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For more information please contact:

CTE/SHFCC
Jason Hanlin
404-808-6489
jason@cte.tv

ATLANTA NON-PROFIT SELECTED TO LEAD HYDROGEN FUEL CELL PILOT PROGRAM FOR DEPARTMENT OF DEFENSE

Atlanta, GA – The Center for Transportation and the Environment (CTE) has been awarded a \$6 million contract for the development of a Department of Defense hydrogen fuel cell pilot program at the Defense Depot San Joaquin (DDJC), in Tracy, California. The project scope includes development of a hydrogen pilot at DDJC utilizing 20 hydrogen-powered forklifts for warehousing activities, and an electrolysis-based hydrogen generation system using renewable energy. The project consists of approximately 12 months of infrastructure and vehicle development and deployment followed by two years of pilot program operations and data collection.

The project team, led by CTE, consists of industry-leading organizations, including Plug Power Inc. (NY/USA, NASDAQ: PLUG), Air Products and Chemicals (PA/USA), and Proton Energy Systems (CT/USA). The group includes a unique mix of emerging technologies from developers with a proven record of moving clean energy products into the marketplace.

Plug Power will source and lease a fleet of 20 sit-down counterbalanced forklift trucks and integrate each with their class-1 GenDrive™ hydrogen fuel cell power unit, which is designed to transparently replace large lead-acid batteries in electric lift trucks. Hydrogen fuel is stored on board the GenDrive modules in high pressure storage tanks. The fleet will be serviced and supported by Plug Power for 24 months under real-world conditions and will provide Plug Power the opportunity to collect data, improve readiness levels, reduce costs, and continue expansion of the commercially viable GenDrive hydrogen fuel cell solution into the material handling market.

Air Products and Chemicals will provide the hydrogen back up, compression, storage, and dispensing equipment needed to fuel the lift trucks. The system will operate by compressing purified hydrogen from the Proton FUELGEN™ system with the Air Products Series 150 compression system. The compressed hydrogen will be stored in three gaseous hydrogen storage vessels. The stored high-pressure hydrogen will be dispensed through an automated gaseous hydrogen outdoor dispenser at the DDJC site.

Proton Energy Systems will provide hydrogen generation via electrolysis using green energy. Proton's FUELGEN™ electrolyzers, based on the commercial HOGEN® H6M hydrogen generator, have enhanced system controls. It includes an energy conservation mode for both the generator and chiller that is well suited to the intermittent hydrogen demand of the proposed fueling scenario. The integrated de-ionizing water system, hydrogen quality monitoring, internal temperature control, and self-contained automatic safety system make the FUELGEN™ hydrogen fuel generator a turnkey, completely integrated system for hydrogen fuel generation.

This is the fourth in a series of Defense Logistics Agency (DLA) pilot projects to research the economic, operational and environmental benefits of powering material handling equipment with fuel cells.

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About CTE/SHFCC

The Center for Transportation and the Environment (CTE) is a nonprofit, 501 (c)(3) organization that develops technologies and implements solutions to achieve energy and environmental sustainability. Since its founding in 1993, CTE has managed a portfolio of over \$170 million in federal, state, and local cost-shared research, development, and demonstration projects involving more than 450 organizations in the advanced transportation technology field. CTE has facilitated and leveraged funding for its projects and initiatives from the U.S. Departments of Defense, Energy, Interior, and Transportation, as well as from the U.S. Army and NASA, among many others. CTE is also nationally recognized for its expertise in the measurement and evaluation of transportation demand management (TDM) programs and manages the Southern Hydrogen & Fuel Cell Coalition (SHFCC) in partnership with the Federal Transit Administration.

SHFCC membership includes universities, national laboratories, corporations, nonprofit organizations, and government agencies working in partnership to identify and act upon opportunities to bring hydrogen and fuel cell technologies to market. The SHFCC has organized an expanding network of stakeholders, provided seed funding for eight demonstration projects, hosted a national fuel cell conference focusing on regional resources and assets, and initiated a variety of hydrogen and fuel cell related projects.