National Fuel Cell Bus Program: FY2011 Project Selections, April 2, 2012

PROJECT TITLE	FEDERAL FUNDING	CONSORTIA LEAD	PARTNERS/ LOCATION OF WORK PERFORMANCE	PROJECT OVERVIEW
Advanced Generation Fuel Cell Bus	$3,305,000	CALSTART, Pasadena, CA	CALSTART, Pasadena, CA; UTC Power, Hartford, CT; CTTRANSIT, Hartford, CT; BAE Systems, Endicott, NY; New Flyer, St Cloud, MN	Integrates a smaller, lighter and more powerful UTC Power fuel cell into a full-size New Flyer transit bus using a proven BAE hybrid-drive system and demonstrates the bus in transit service in CTTRANSIT of Hartford, Conn. Project will help establish a U.S. industry for fuel cell bus technologies, and helps ensure the U.S. remains globally competitive in this emerging market.
BUS 2010 Next Gen Compound Hybrid Fuel Cell Bus	$1,506,760	CALSTART, Pasadena, CA	CALSTART, Pasadena, CA; BAE Systems, Endicott, NY; Hydrogenics, Ontario Canada; SFMTA, San Francisco, CA	Builds on existing project by integrating an enhanced Hydrogenics fuel cell on an existing hybrid fuel cell bus and operating the bus in transit service. Project fosters development of low-cost hybrid fuel cell bus, based on commercial hybrid vehicle technology.
Austin Fuel Cell Bus Demonstration Program Enhancement	$1,555,978	Center for Transportation and the Environment (CTE), Atlanta, GA	CTE, Atlanta, GA Proterra, Greenville, SC; Hydrogenics, Ontario, Canada; Embedded Power and Controls; Capital Metro, Austin, TX	Expands existing fuel cell demonstration project and puts a new fuel cell electric bus into revenue service. The experienced project team will field a more powerful hybrid configuration of fuel cells and electric batteries. The project will further improve fuel cell electric components, making them simpler, easier to maintain, more efficient and longer lasting.
ECO Saver IV Hybrid Electric Fuel Cell Bus Demonstration	$1,015,480	Center for Transportation and the Environment (CTE), Atlanta, GA	DesignLine, Charlotte, NC; Ballard, Lowell, MA; Ohio State Univ, Columbus, OH	Provides funding for DesignLine to complete development of new domestic fuel cell bus. Project includes demonstration with the Ohio State University's Campus Area Bus Service. New domestic fuel cell hybrid system will help spur competition and hastens commercial introduction of fuel cell technology for transportation.
American Fuel Cell Bus Enhancement	$1,400,000	CALSTART, Pasadena, CA	CALSTART, Pasadena, CA; SunLine, Thousand Palms, CA; Ballard, Lowell, MA; BAE Systems, Endicott, NY	Continues demonstration of two existing fuel cell buses at SunLine: the American Fuel Cell Bus, and the "Olympics" fuel cell bus. Project will help manufacturers develop better, more robust, affordable fuel cell systems, and assist transit agencies successfully incorporate fuel cell buses into their fleets.

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Massachusetts Hydrogen Fuel Cell Powered Bus	$2,814,600	Northeast Advanced Vehicle Consortium (NAVC), Boston, MA	NAVC, Boston, MA; Nuvera, MA; BAE Systems, Endicott, NY; Massachusetts Bay Transportation Authority, Boston, MA	Upgrades fuel cell in existing fuel cell bus development project to the latest generation Nuvera fuel cell developed for the automotive market. By integrating its fuel cells and hybrid drive systems, Nuvera and BAE Systems will form a team that can lead to greater competition in the domestic fuel cell industry and provide a high profile demonstration of the vehicle and hydrogen fueling infrastructure.
High Voltage Air Conditioning Converter	$207,930	CALSTART, Pasadena, CA	CALSTART, Pasadena, CA; City of Burbank, CA; US Hybrid, CA	Develops and tests high-efficiency, air conditioning system for hybrid fuel cell buses. Project can reduce the cost and complexity of current systems, and can greatly improve the efficiency and lower the costs of all hybrid and electric buses.
EcoSaver IV Hybrid Electric Fuel Cell Bus Testing and Modeling	$727,075	Center for Transportation and the Environment (CTE), Atlanta, GA	CTE, Atlanta, GA DesignLine, Charlotte, NC, Ballard, Lowell, MA; Ohio State Univ., Columbus, OH	Testing and modeling to aid in the design of fuel cell buses. The project will help optimize fuel cell bus designs, leading to more energy efficient better performing fuel cell buses, which can also enable improvements to all battery electric and hybrid buses.
DC/DC Converter Improvement	$15,000	Center for Transportation and the Environment (CTE), Atlanta, GA	CTE, Atlanta, GA; Embedded Power and Control; Proterra, Greenville, SC;	Project provides critical refinements to a DC-DC converter, a key fuel cell electric bus component. An improved converter enables a fuel cell bus that is easier to operate and maintain.
NFCBP Communications & Outreach	$345,000	Center for Transportation and the Environment (CTE), Atlanta, GA	CTE, Atlanta, GA	This project will continue outreach efforts to assist the industry in coordinating and disseminating information about fuel cell electric bus technology.
Fuel Cell Bus U.S. Market Analysis and Study	$206,536	CALSTART, Pasadena, CA	CALSTART, Pasadena. CA	Analysis of fuel cell bus market based on input from U.S. transit operators. Analyzes fuel cell bus demand, price sensitivity, consumer acceptance, environmental regulation and policy, energy efficiency benefits, service and maintenance requirements.
	$13,099,359			