Niche Market Report April 2004

Alternative Fuel School Bus Information Resources

This document is intended to provide a listing of the most important resources you can tap to learn more about alternative fuels in school buses, including available products, successful fleets, and other support resources.

Alternative Fuel School Bus Manufacturers

Contact information is provided below for manufacturers of alternative fuel school buses and bus chassis in the U.S.

BLUE BIRD CORPORATION: Maker of Type A, B, C, and D school buses, including the All-American Rear Engine Type D transit-style bus using John Deere CNG powerplants and the MicroBird Type A using the Ford E-450 CNG chassis.

Rusty Mitchell
Blue Bird Corporation
402 Blue Bird Boulevard
P.O. Box 937
Fort Valley, GA 31030
(800) 486-7122 (phone)
school@blue-bird.com (for school bus information)
http://www.blue-bird.com

COLLINS BUS CORPORATION: Maker of small school buses on cutaway van chassis, including the Grand Bantam using the Ford E-450 CNG chassis.

Collins Bus Corporation P.O. Box 2946 Hutchinson, KS 67504-2946 (800) 533-1850 (phone) http://www.collinsbus.com

CORBEIL BUS: Maker of Type A, C, and D school buses, including the new conventional Type C propane school bus developed in conjunction with ProCon, a consortium of propane providers and equipment manufacturers.

Les Enterprises Michel Corbeil, Inc. 304 12th Avenue St-Lin-Laurentides, Quebec, Canada JOR 1C0 (888) 439-3577 (phone) http://www.corbeilbus.com http://www.propaneschoolbus.com

FORD MOTOR COMPANY: Ford is a manufacturer of a variety of conventional fuel and alternative fuel vehicles. The AFV choices applicable in model year 2004 to the school bus industry include the Ford E450 Cutaway Van, offered in dedicated CNG trim. (NOTE: Ford has plans to discontinue its gaseous fuel alternative fuel vehicles, after the 2004 model year, so prospective AFV buyers should check with Ford on the availability of their particular model of interest.)

Ford Motor Company P.O. Box 6248 Dearborn, MI 48126 (800) 34-FLEET (phone) http://www.fleet.ford.com

GENERAL MOTORS CORPORATION: General Motors produces a variety of conventional fuel and alternative fuel vehicles, including the Chevrolet Express/GMC Savana CNG cutaway van chassis. This chassis is not yet safety certified for school bus use, but GM (through its Upfitter Integration) is open to exploring this certification if enough interest is generated.

Tom Vaclavik
Lead Engineer, School Bus/Ambulance/Shuttle Bus
General Motors Corporation
Upfitter Integration
(800) 353-3867 (phone)
http://www.gmupfitter.com
http://www.gmaltfuel.com

Clean Cities

THOMAS BUILT BUSES, INC.: Maker of all types of school buses, including the Saf-T-Liner HDX transit-style bus using John Deere CNG powerplants.

Ron Dillard Thomas Built Buses, Inc. 1408 Courtesy Road High Point, NC 27260 (336) 889-5725 (phone) (336) 881-6509 (fax) Ron.Dillard@thomasbus.com http://www.thomasbus.com

Alternative Fuel HD Engine Manufacturers

Listed below is contact information for manufacturers of alternative fuel heavy-duty engines in the U.S.

CLEAN AIR PARTNERS: Clean Air Partners works with Caterpillar, Inc. to fit standard Caterpillar engines with Dual-Fuel™ Electronic Controls that monitor and control natural gas fuel. Diesel fuel is used as the ignition source instead of a spark plug. Dual-Fuel™ engines can operate on diesel fuel in emergencies and the engine can be reconfigured to its original state for vehicle trade-in.

Kevin Campbell
Sales Manager, LEV Products
Clean Air Partners
5066 Santa Fe Street
San Diego, CA 92109
(858) 332-4800 (phone)
(858) 332-4890 (fax)
kcampbell@cleanairpartners.com
http://www.cleanairpartners.com

CUMMINS WESTPORT: Joint venture of Cummins Inc. and Westport Innovations to produce medium-duty and heavy-duty engines in natural gas and propane versions. Alternative fuel engines include the B5.9G engine in natural gas and propane (horsepower ratings of 150 hp to 230 hp) and the C Gas Plus engine using natural gas (horsepower ratings of 250 hp to 280 hp).

Cummins Westport, Inc. 1700 West 75th Avenue Vancouver, BC V6P 6P2 Canada (604) 718-2000 (phone) (604) 718-2001 (fax) info@cumminswestport.com http://www.cumminswestport.com

DEERE & COMPANY: John Deere is a manufacturer of engines and off-road equipment, including the John Deere 8.1 liter natural gas medium-duty truck engine, in ratings of 250 hp to 280 hp.

Johannes Inzenhofer
Program Manager – Natural Gas Engines
John Deere Power Systems
P.O. Box 5100
Waterloo, IA 50704-5100
(319) 292-7925 (phone)
(319) 292-5075 (fax)
inzenhoferjohnannes@johndeere.com
http://www.deere.com

Alternative Fuel School Bus Operators

Listed below is contact information for some successful alternative fuel school bus fleets in the U.S.

CLARK COUNTY SCHOOL DISTRICT (NEVADA): Clark County School District serves Las Vegas and the surrounding metropolitan area. They have over 1,100 buses operating on a 20% biodiesel blend (B20). For more information on this fleet, please contact the Clean Cities Coordinator.

Daniel R. Hyde Las Vegas Clean Cities Coordinator City of Las Vegas 2950 Ronemus Drive Las Vegas, NV 89128 (702) 229-6971 (phone) (702) 838-8121 (fax) dhyde@ci.las-vegas.nv.us http://www.lasvegascleancities.org

HUDSON CITY SCHOOLS (OHIO): Hudson City Schools operates 14 natural gas school buses, and has been using natural gas in their bus fleet since the early 1980's. For more information on this fleet, please contact the Clean Cities Coordinator.

David Walker Clean Cities Coordinator Earth Day Coalition's Clean Fuels Program 3606 Bridge Avenue Cleveland, OH 44113 (216) 281-6468 x 224 (phone)

Clean Cities

(216) 281-5112 (fax) dwalker@earthdaycoalition.org http://www.earthdaycoalition.org/ccities

KENTUCKY SCHOOLS (VARIOUS): Six Kentucky school systems have been participating in a biodiesel project, operating a total of 300 buses on B20 and 120 buses on B2. These buses are envisioned to displace about 60,000 gallons of diesel fuel per year. For more information on this fleet, please contact the Clean Cities Coordinator.

Melissa Howell Coordinator Commonwealth Clean Cities Partnership P.O. Box 5174 Louisville, KY 40255 (502) 452-9152 (phone) (502) 452-9152 (fax) kcfc@aol.com http://www.kentuckycleanfuels.org/

LOWER MERION SCHOOL DISTRICT (PENNSYLVANIA): Lower Merion is located in suburban Philadelphia, Pennsylvania. They operate a total of 63 dedicated CNG buses that have logged a total of 2.3 million miles.

Michael Andre Supervisor of Transportation Lower Merion School District 301 East Montgomery Avenue Ardmore, PA 19003-3399 (610) 645-1940 (phone) andrem@lmsd.org http://www.lmsd.org

PORTLAND PUBLIC SCHOOLS (OREGON): The Portland Public Schools operate a fleet of 325 district-owned and contractor-owned propane buses. They have been using propane since 1983.

John Banton Portland Public Schools 501 North Dixon Street Portland, OR 97227-1804 (503) 916-6116 (phone) jbanton@pps.k12.or.us http://www.pps.k12.or.us

Key Web Resources for Alternative Fuels

Listed below are some key websites and organizations dedicated to promotion of alternative fuels and alternative fuel technologies.

ALTERNATIVE FUELS DATA CENTER: The Alternative Fuels Data Center is a one-stop shop for all your alternative fuel and vehicle information needs. This site has more than 3,000 documents in its database, an interactive fuel station mapping system, listings of available alternative fuel vehicles, links to related Web sites, and much more.

Alternative Fuels Data Center and National Alternative Fuels Hotline

(800) 423-1363 (phone) hotline@afdc.nrel.gov http://www.eere.energy.gov/cleancities/afdc/

The AFDC documents database includes a two-page fact sheet reprinted from Alternative Fuel News, Volume 5 #3, entitled "Alternative Fuel School Buses Earn High Marks". This publication provides a good overview of alternative fuel school buses and can serve as an effective marketing tool. It is available at the AFDC (visit http://www.afdc.doe.gov/cgi-bin/doc_search/searchora.cgi and search for publication number 6867).

ALTERNATIVE FUEL BUYERS GUIDE: Sponsored by the U.S. Department of Energy, the Buyers Guide is an online tool to help fleets and individual consumers make alternative fuel purchase decisions.

http://www.eere.energy.gov/cleancities/vbg/

DOE CLEAN CITIES: Sponsored by the U.S. Department of Energy (DOE), the Clean Cities Program supports public and private partnerships that deploy alternative fuel vehicles (AFVs) and build supporting infrastructure.

Shelley Launey
Director, Clean Cities Program
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, DC 20585
(202) 586-1573 (phone)
(202) 586-1637 (fax)
shelley.launey@ee.doe.gov
http://www.eere.energy.gov/cleancities/

Clean Cities

NATIONAL CLEAN CITIES, INC.: The mission of National Clean Cities, Incorporated (a non-profit organization) is to provide national and regional assistance and support to all NCC Inc. Clean Cities chapters.

Greg Zilberfarb
Director
National Clean Cities, Inc.
7-B Loudoun Street, S.W., Suite 120
Leesburg, VA 20175
(703) 779-4980 (phone)
info@nationalcleancities.org
http://www.nationalcleancities.org

NATURAL GAS VEHICLE COALITION: The Natural Gas Vehicle Coalition is a national organization dedicated to the development of a growing, sustainable and profitable market for vehicles powered by natural gas and/or hydrogen.

Krikor Melkisetekian
Director, Communications & Member Services
Natural Gas Vehicle Coalition
400 North Capitol Street, N.W.
Washington, DC 20001
(202) 824-7365 (phone)
(202) 824-7367 (fax)
kmelkisetekian@ngvc.org
http://www.ngvc.org

PROPANE VEHICLE COUNCIL: The Propane Vehicle Council leads the industry in advancing the clean, safe, and superior performance of propane as a fuel for vehicles and stationary engine applications.

Propane Vehicle Council 1150 17th Street, N.W. Suite 310 Washington, DC 20036 (202) 530-0479 (phone) (202) 466-7205 (fax) info@propanevehicle.org http://www.propanevehicle.org

SCHOOL BUS FLEET MAGAZINE: Founded in 1965, SCHOOL BUS FLEET provides a wealth of information on the management and maintenance of school bus fleets operated by public school districts, private schools, Head Start agencies and childcare centers. The readership includes public operators as well as contract service providers.

Steve Hirano
Editor/Associate Publisher
School Bus Fleet Magazine
21061 South Western Avenue
Torrance, CA 90501
(310) 533-2452 (phone)
(310) 533-2502 (fax)
steve.hirano@bobit.com
http://www.schoolbusfleet.com

SCHOOL TRANSPORTATION NEWS: STN is a monthly news and feature magazine serving the field of pupil transportation, and providing data and statistics on school transportation.

School Transportation News P.O. Box 789 Redondo Beach, CA 90277 http://www.stnonline.com

Sponsored by the U.S. Department of Energy Energy Efficiency and Renewable Energy Office of Weatherization and Intergovernmental Programs

A Strong Energy Portfolio for a Strong America

Energy efficiency and clean, renewable energy will mean a stronger economy, a cleaner environment, and greater energy independence for America. Working with a wide array of state, community, industry, and university partners, the U.S. Department of Energy's Office of Energy Efficiency and Renewable Energy invests in a diverse portfolio of energy technologies.

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