U.S. Department of Energy
Energy Efficiency and Renewable Energy
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Heavy Vehicle and Engine Resource Guide

FreedomCAR

DOE/GO-102004-1866
March 2004

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About This Guide

The U.S. Department of Energy's Heavy Vehicle & Engine Resource Guide is a catalog of medium- and heavy-duty engines and vehicles with alternative fuel and advanced powertrain options. This edition covers model year 2003 engines and vehicles. The information was collected by the National Renewable Energy Laboratory to provide fleet operators, policymakers, alternative fuel industry participants, and other interested parties with an overview of heavy vehicle and engine products currently available in the United States. In addition to product information, the guide includes:

- Contact information for vehicle and engine manufacturers as well as organizations and government agencies involved in the alternative fuel and advanced vehicle and engine market
- A glossary of commonly used alternative fuel and advanced vehicle and engine terms and acronyms
- A chart with applicable vehicle and engine emission certification specifications.

Product information, which was furnished by original equipment manufacturers, is divided into three categories: Alternative Fuel Medium and Heavy Engines; Natural Gas and Propane Medium and Heavy Vehicles; and Hybrid Electric and Battery Electric Heavy Vehicles. Respondents were asked to provide accurate, up-to-date information about all their heavy vehicle and engine products. All information in the guide is subject to change. Visit manufacturer Web sites for the most up-to-date product information.

Best efforts were made to collect information from all manufacturers offering commercially available medium and heavy vehicles and engines with alternative fuel and advanced technology options, and to collect information on all their alternative fuel products. However, some manufacturers and products may not appear in the guide.

Glossary of Abbreviations

AC	Alternating current
AFDC	Alternative Fuels Data Center (U.S.)
AFV	Alternative fuel vehicle
amp-h	Amperes per hour
APU	Auxiliary power unit
Btu	British thermal unit
CAA	Clean Air Act/Clean Air Act Amendments
CFV	Clean fuel vehicle
CH_4	Methane
CNG	Compressed natural gas
CO	Carbon monoxide
CO_2	Carbon dioxide
DC	Direct current
DGE	Diesel gallon equivalent
DOE	Department of Energy (U.S.)
DOT	Department of Transportation (U.S.)
ECD	Emissions control device
ECM	Electronic control module
EGR	Exhaust gas recirculation
EPAct	Energy Policy Act of 1992 (U.S.)
EV	Electric vehicle
ft-lb	Foot-pound
FTP	Federal Test Procedure
gal	Gallons
GPM	Grams per mile
GVWR	Gross vehicle weight rated
HC	Hydrocarbons
HD	Heavy-duty
HEV	Hybrid-electric vehicle
hp	Horsepower
ICE	Internal combustion engine
ILEV	Inherently low-emission vehicle
in	Inches
in^3	Cubic inches
kW	Kilowatt
kW-h	Kilowatts per hour
L	Liter
lb	Pounds
LNG	Liquefied natural gas
LPG	Liquefied petroleum gas (propane)
MPG	Miles per gallon
MPH	Miles per hour
N/A	Not available/not applicable
NG	Natural gas
NGV	Natural gas vehicle
NiCd	Nickel-cadmium
NiMH	Nickel metal hydride
NMHC	Nonmethane hydrocarbon
NMOG	Nonmethane organic gas
NO_x	oxides of nitrogen
NREL	National Renewable Energy Laboratory (U.S.)
OEM	Original equipment manufacturer
psi	Pounds per square inch
psig	Pounds per square inch gauge (above atmospheric pressure)
R&D	Research and development
RFG	Reformulated gasoline
RPM	Revolutions per minute
scf	Standard cubic feet
SCFM	Standard cubic feet per minute
V	Volts
VOC	Volatile organic compound
ZEV	Zero-emission vehicle

Heavy Vehicle and Engine Emission Standards for the United States*

Regulating agency	Effective MY	Applicable vehicle/engine classification	NMHC (g/bhp-h)	CO (g/bhp-h)	PM (g/bhp-h)	NOx (g/bhp-h)
CARB ULEV	1992-2003	Medium-duty vehicles/engines, 8,501 to 14, 000 lb GVW [I]	0.197/0.257	8.1/10.3	0.06/0.06	1.0/1.5
CARB SULEV	1992 and later	Medium-duty vehicles/engines, 8,501 to 14, 000 lb GVW [I]	0.1/0.13	4.1/5.2	0.06/0.06	0.5/0.7
CARB ULEV [A]	1992-2003	Engines for incomplete MD vehicles, 8,501-14,000 GVW	2.5 NMHC + NOx	14.4	0.1	2.5 NMHC + NOx
CARB SULEV [A]	1992 and later	Engines for incomplete MD vehicles, 8,501-14,000 GVW	2.0 NMHC + NOx	7.2	0.05	2.0 NMHC + NOx
CARB	1994 and later	Heavy-duty diesel engines/vehicles (trucks)	1.2 [B]	15.5	0.1 [C]	5
CARB	1994 and later	Heavy-duty diesel engines/vehicles (urban transit buses)	1.2 [B]	15.5	0.07	5
CARB	1996 and later	Heavy-duty diesel engines/vehicles (trucks)	1.2 [B]	15.5	0.1	5
CARB	1996 and later	Heavy-duty diesel engines/vehicles (urban transit buses)	1.2 [B]	15.5	0.05	4
U.S. EPA	1996 and later	Heavy-duty diesel engines/vehicles (urban transit buses)	1.3	15.5	0.05 (0.07 in-use)	5
U.S. EPA	1998 and later	Heavy-duty diesel engines/vehicles over 8,500 lb GVW (CI/urban bus)	2.5 NMHC + NOx	15.5	0.05 (0.07 in-use)	4
U.S. EPA	1998 and later	Heavy-duty diesel engines/vehicles 8,501-14,000 lb GVW (SI/Otto cycle)	0.9	14.4	NA	4.0 (5.0 for NG eng.)
U.S. EPA	1998 and later	Heavy-duty diesel engines/vehicles over 14,000 lb GVW (SI/Otto cycle)	1.7	37.1	NA	4.0 (5.0 for NG eng.)
U.S. EPA CFF LEV	1998-2003	Heavy-duty SI and CI engines over 8,500 lb	3.8 NMHC + NOx (3.5 with Calif. Fuel)	15.5	0.1	3.8 NMHC + NOx (3.5 with Calif. Fuel)
U.S. EPA CFF ILEV	1998-2003	Heavy-duty SI and CI engines over 8,500 lb	2.5 NMHC + NOx	14.4	0.1	2.5 NMHC + NOx
U.S. EPA CFF ULEV	1998-2003	Heavy-duty SI and CI engines over 8,500 lb	2.5 NMHC + NOx	7.2	0.05	2.5 NMHC + NOx
U.S. EPA CFF ZEV	1998-2003	Heavy-duty SI and CI engines over 8,500 lb	0	0	0	0
CARB	1998 and later	Heavy-duty engines/vehicles (except urban buses)	1.2	15.5	0.1	4
CARB LEV [A]	2002-2003	Engines for incomplete MD vehicles, 8,501-14,000 GVW	3.0 NMHC + NOx	14.4	0.1	3.0 NMHC + NOx
CARB	2002 and later	Urban transit buses (fleets choosing diesel path)	2.5 NOx + NMHC/4.8 NOx fleet avg.	15.5	0.01	2.5 NOx + NMHC
CARB	2002 and later	Urban transit buses (fleets choosing alt. fuels path)	1.8 NOx + NMHC (opt.)/4.8 NOx fleet avg.	15.5	0.03	1.8 NOx + NMHC (opt.)/4.8 NOx fleet avg.
CARB	2002-2006 [D]	Heavy-duty engines/vehicles over 14,000 lb GVW (except urban buses)	1.8 to 0.3 NMHC + NOx	15.5	0.03 to 0.01	1.8 to 0.3 NMHC + NOx
CARB	2004 and later	Heavy-duty engines/vehicles (except urban buses) [E, F]	2.4-2.5 NOx + NMHC	15.5	0.1	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)
CARB	2004 and later	Urban transit buses (fleets choosing diesel path)	NA	15.5	0.01	0.5
CARB ULEV [G]	2004 and later	Otto-cycle engines used in incomplete vehicles 8,501-14,000 GVW [F]	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)	14.4	0.1	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)
CARB SULEV [G]	2004 and later	Otto-cycle engines used in incomplete vehicles 8,501-14,000 GVW [F]	2.0 NMHC + NOx	7.2	0.1	2.0 NMHC + NOx
CARB	2004-2006	Heavy-duty engines	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)	15.5	0.1	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)
CARB [G]	2004 and later	Otto-cycle engines used in vehicles of more than 14,000 GVW	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)	37.1	NA	2.4 (or 2.5 NMHC + NOx w/ 0.5 NMHC cap)
CARB ULEV [G]	2005 and later	Otto-cycle engines used in incomplete vehicles 8,501-14,000 GVW	1.0 NMHC+NOx	14.4	NA	1.0 NMHC+NOx
CARB SULEV	2005 and later	Otto-cycle engines used in incomplete vehicles 8,501-14,000 GVW	0.5 NMHC+NOx	7.2	NA	0.5 NMHC+NOx
CARB [G]	2005 and later	Otto-cycle engines used in vehicles of more than 14,000 GVW	1.0 NMHC+NOx	37.1	NA	1.0 NMHC+NOx
U.S. EPA CFF	2004 and later	Heavy-duty diesel engines for vehicles over 8,500 lb	2.4 NMHC + NOx	15.5	0.1/0.05	2.4 NMHC + NOx
U.S. EPA CFF	2005 and later	Heavy-duty gasoline engines, GVW 8,501-10,000 lb	0.28 g/mile	NA	NA	0.9 g/mile
U.S. EPA CFF	2005 and later	Heavy-duty gasoline engines, GVW 10,001-14,000 lb	0.33 g/mile	NA	NA	1.0 g/mile
U.S. EPA CFF	2005 and later	Heavy-duty gasoline engines, GVW more than 14,000 lb	1.0 g/bhp-hr HC+NOx	NA	NA	1.0 g/bhp-hr HC+NOx

Heavy Vehicle and Engine Emission Standards for the United States* (cont.)

Regulating agency	Effective MY	Applicable vehicle/engine classification	NMHC (g/bhp-h)	CO (g/bhp-h)	PM (g/bhp-h)	NOx (g/bhp-h)
CARB	2007 and later	Urban transit buses (fleets choosing diesel path)	NA	NA	0.01	0.2
CARB	2007 and later	Urban transit buses (fleets choosing alt. fuels path)	NA	NA	0.01	0.2
CARB	2007 and later	Heavy-duty engines/vehicles (other than transit)	0.14	15.5	0.01	0.2
U.S. EPA	2007 and later H	Heavy-duty diesel and gasoline engines/vehicles	0.14	15.5	0.01	0.2
U.S. EPA	2008 and later	Heavy-duty Otto-cycle engines/vehicles	0.14	14.4	0.01	O.20
U.S. EPA	2008 and later	Complete heavy-duty vehicles, GVW 8,501-10,000 lb	0.195 g/mile	7.3 g/mi	0.02 g/mi	0.2 g/mi
U.S. EPA	2008 and later	Complete heavy-duty vehicles, GVW 10,001-14,000 lb	0.23 g/mile	8.1 g/mile	0.02 g/mile	0.4 g/mile

* For more detailed information, visit the EPA Office of Transportation and Air Quality web site at www.epa.gov/otaq or the CARB web site at www.arb.ca.gov

A. Optional standards

B. NMHC standard applies to petroleum-, natural gas & propane-powered engines; THC standard for other vehicles is 1.3

C. PM standard for urban transit buses is 0.07 g/bhp-hr under transient operating conditions

D. Optional standards effective 10/2002

E. Standards apply to engines fueled with petroleum- or alcohol-based fuel, natural gas or propane

F. Optional certification for manufacturers of engines used in incomplete vehicles 8,501-14,000 lb GVW

G. Manufacturer may opt to certify to option 1 or 2 federal NMHC+NOx standards

H. Standards phased in from 2007 to 2010 for diesel, 2008-2009 for gasoline

I. 1st standard listed is for engines/vehicles 8,501-10,000 lb GVW; 2nd is for those 10,001-14,000 lb GVW

Information Sources for Heavy Vehicles and Engines

Trade associations, R&D groups, government agencies, advocacy groups, etc.

Advanced Transportation Technology Institute (formerly Electric Transit Vehicle Institute)
1617-B Wilcox Blvd.
Chattanooga, TN 37406
Contact: John Powell
Phone: 423-622-3884
Fax: 423-622-0744
Web site: http://www.atti-info.org/

Alternative Fuels Data Center and Hotline, U.S. Department of Energy
Phone: 800-423-1363/703-934-3069
E-mail: hotline@afdc.nrel.gov
Web site: http://www.afdc.doe.gov/

American Bioenergy Association
209 Pennsylvania Ave. NE
Washington, DC 20003
Contact: Megan Smith
Phone: 202-546-4551
Fax: 202-467-6541
E-mail: info@biomass.org
Web site: http://www.biomass.org/

American Bus Association
1100 New York Ave. NW, Suite 1050
Washington, DC 20005-3934
Contact: Peter Pantuso
Phone: 202-842-1645
Fax: 202-842-0850
Web site: http://www.buses.org/

American Public Transportation Association
1666 K St. NW, Suite 1100
Washington, DC 20006
Contact: William Millar
Phone: 202-496-4800
Fax: 202-496-4324
Web site: http://www.apta.com/

American Trucking Associations
2200 Mill Rd.
Alexandria, VA 22314
Contact: Vern Garner
Phone: 888-333-1759/703-838-1700
Fax: 703-838-0291
Web site: http://www.truckline.com/

California Air Resources Board (CARB)
Mobile Source Operations Division
P.O. Box 8001
El Monte, CA 91734-2301
Contact: Allen Lyons
Phone: 626-450-6152
Web site: http://www.arb.ca.gov/

California Energy Commission
1516 9th St., MS-29
Sacramento, CA 95814-5512
Contact: Jerry Wiens
Heavy-Duty Advanced Technology Dept.
Phone: 916-654-4649
E-mail: jwiens@energy.state.ca.us
Web site: http://www.energy.ca.gov/
CEC Alternative Fuels Hotline
Phone: 800-232-4685

California Fuel Cell Partnership
3300 Industrial Blvd., Suite 1000,
West Sacramento, CA 95691
Contact: Joe Irvin
Phone: 916-371-3870
Fax: 916-375-2008
Web site: http://www.cafcp.org/

California Natural Gas Vehicle Partnership
Contact: Norma Glover
Web site: http//:www.cngvp.org

CALSTART/WestStart Advanced Vehicle Consortium
2180 E. Foothill Blvd.
Pasadena, CA 91107
Contact: John Boesel
Phone: 626-744-5600
Fax: 626-744-5610
Web site: http://www.calstart.org/

Clean Cities Program, U.S. Department of Energy
Forrestal Bldg. EE-10
1000 Independence Ave. SW
Washington, DC 20585-0121
Contact: Shelley Launey
Phone: 800-224-8437/703-934-3068
Fax: 703-586-1600
E-mail: ccities@nrel.gov
Web site: http://www.ccities.doe.gov/

Electric Drive Transportation Association (formerly Electric Vehicle Association of the Americas)
701 Pennsylvania Ave. NW, 3rd Floor
Washington, DC 20004
Contact: Kateri Callahan
Phone: 202-508-5995
Fax: 202-508-5924
Web site: http://www.evaa.org/

Electric Power Research Institute
3412 Hillview Ave.
Palo Alto, CA 94304-1395
Contact: Andra Michel, Bob Graham, Mark Duvall
Phone: 650-855-2556
Fax: 650-855-2737
Web site: http://www.epri.com/

Engine Manufacturers Association
Two N. LaSalle St., Suite 2200
Chicago, IL 60602
Contact: Jed R. Mandel
Phone: 312-827-8700
Fax: 312-827-8737
Web site: http://www.engine-manufacturers.org/

Gas Technology Institute
1700 South Mt. Prospect Rd.
Des Plaines, IL 60018
Contact: William E. Liss
Phone: 847-768-0753
Fax: 847-768-0501
Web site: http://www.gastechnology.org/

International Association for Natural Gas Vehicles
P.O. Box 28-590
Auckland, New Zealand
Contact: Dr. Garth Harris
Phone: 64-9-524-0945
Fax: 64-9-520-3122
Web site: http://www.iangv.org/

National Alternative Fuels Training Consortium
1460 Earl Core Rd.
Morgantown, WV 26505
Contact: Al Ebron
Phone: 304-293-7882
Fax: 304-293-6944
Web site: http://naftp.nrcce.wvu.edu/

National Association of Fleet Managers Inc.
100 Wood Ave. South, Suite 310
Iselin, NJ 08830
Contact: David Lefevre
Phone: 732-494-8100
Fax: 732-494-6789
Web site: http://www.nafa.org/

National Biodiesel Board
3337A Emerald Lane
Jefferson City, MO 65110-4898
Contact: Joe Jobe
Phone: 573-635-3893 or 800-841-5849
Fax: 573-635-7913
Web site: http://www.nbb.org/

National Propane Gas Association (Washington Office)
1150 17th St. NW, Suite 310
Washington, DC 20036
Contact: Richard Roldan
Phone: 202-466-7200
Fax: 202-466-7205
Web site: http://www.npga.org/

National Renewable Energy Laboratory
1617 Cole Blvd.
Golden, CO 80401-3393
Contact: Margo Melendez
Phone: 303-275-4479
Fax: 303-275-4415
Web site: http://www.nrel.gov/

Natural Gas Vehicle Coalition
400 N. Capitol St. NW
Washington, DC 20001
Contact: Richard Kolodziej
Phone: 202-824-7360
Fax: 202-824-7367
Web site: http://www.ngvc.org/

Propane Education & Research Council
1776 K St. NW, Suite 204
Washington, DC 20006
Contact: Roy Willis
Phone: 202-452-8975
Fax: 202-452-9054
Web site: http://www.propanecouncil.org/

Propane Vehicle Council
1150 17th St. NW, Suite 310
Washington, DC 20036
Contact: Brian Feehan
Phone: 202-530-0479
Fax: 202-429-0977
E-mail: info@propanevehicle.org
Web site: http://www.propanevehicle.org/

Society of Automotive Engineers Inc. (Automotive Headquarters)
755 W. Big Beaver, Suite 1600
Troy, MI 48084
Phone: 248-273-2455
Fax: 248-273-2494
E-mail: automotive_hq@sae.org
Web site: http://www.sae.org/

U.S. Department of Energy Office of FreedomCAR and Vehicle Technologies
1000 Independence Ave. SW
Washington, DC 20585
Contact: Edward Wall
Phone: 202-586-0410
Web site: http://www.eere.energy.gov/vehiclesandfuels

U.S. Department of Transportation, Federal Highway Administration
400 7th St. SW
Washington, DC 20590
Phone: 202-366-0537
Web site: http://www.fhwa.dot.gov/

U.S. Department of Transportation, Federal Transit Administration
400 7th St. SW
Washington, DC 20590
Contact: Barbara Sisson, Office of Research, Demonstration and Innovation
Phone: 202-366-4052
Web site: http://www.fta.dot.gov/

U.S. Environmental Protection Agency Office of Transportation and Air Quality
1200 Pennsylvania Ave NW, 6401A
Washington, DC 20460
Contact: Margo T. Oge
Phone: 202-564-1682
Fax: 202-564-1686
Web site: http://www.epa.gov/otaq

U.S. Fuel Cell Council
1625 K St. NW, Suite 725
Washington, DC 20006
Contact: Bob Rose
Phone: 202-293-5500
Fax: 202-785-4313
Web site: http://www.usfcc.com/

Vehicle and Engine Manufacturer Contact Information

Alternative Fuels Technologies
Contact: Juanita Diaz
Phone: 806-359-3327
E-mail:jdiaz@altlngusa.com

Arrow Engine Co.
Contact: Kavas Mistry
Phone: 800-331-3662
Fax: 918-592-1481
Web site: http://www.arrowengine.com/

Autocar (formerly Volvo GM Heavy Trucks)
Contact: Mike Poppovich
Phone: 765-489-5499, ext. 2501
Web site: http://www.autocartruck.com/

Blue Bird Corp.
Contact: Bill Fay
Phone: 800-486-7122
Fax: 478-474-9131
E-mail: wffay@blue-bird.com
Contact: Rusty Mitchell
Phone: 478-822-2262
E-mail: rusty.mitchell@blue-bird.com
Web site: http://www.blue-bird.com/

Champion Bus Inc./Thor Industries
Contact: Paul Allmacher
Phone: 800-776-4943
Fax: 810-724-1844
E-mail: cbisls2@tir.com
Web site: http://www.championbus.com/

Clean Air Power/Caterpillar
Contact: Kevin Campbell
Phone: 909-393-7933
Fax: 858-332-4991
Contact: Tara Schaenman
Phone: 858-332-4830
E-mail: tschaenman@cleanairpower.com
Web site: http://www.cleanairpower.com/

Crane Carrier Co.
Contact: Richard Hugger
Phone: 918-836-1651
Fax: 918-832-7348
E-mail: rhugger@cranecarrier.com
Web site: http://www.cranecarrier.com/

Cummins Westport Inc.
Contact: Scott Davidson
Phone: 812-377-1734
Fax: 812-377-1309
E-mail: sdavidson@cumminswestport.com
Contact: Alexis Boudreau
Phone: 604-718-2012
E-mail: aboudreau@cumminswestport.com
Web site: http://www.cumminswestport.com/

Detroit Diesel Corp.
Contact: Chuck Yount
Phone: 313-592-3753
Fax: 313-592-8176
E-mail: charles.yount@detroitdiesel.com
Contact: Frank Stranzl
Phone: 313-592-5668
Fax: 313-592-8176
E-mail: frank.stanzl@detroitdiesel.com
Web site: http://www.detroitdiesel.com/

ElDorado National/Thor Industries
Contact: Gentry Shaw
Phone: 909-591-9557
Fax: 909-591-5285
E-mail: gshaw@eldorado-ca.com
Web site: http://www.eldoradonational.com/

Electric Vehicles International, LLC
Contact: Larry Pike
Phone: 800-618-3722
Fax: 765-643-3726
Web site: http://www.evi-usa.com/

Elgin Sweeper Co.
Contact: Brian Giles
Phone: 847-741-5370
Fax: 847-742-3035
E-mail: bgiles@elginsweeper.com
Web site: http://www.elginsweeper.com/

Freightliner Custom Chassis Corp.
Contact: Bryan Henke
Phone: 864-487-1700
Fax: 864-487-6400
E-mail: bryanhenke@freightliner.com
Web site: http://www.freightlinerchassis.com/

Freightliner Trucks
Contact: Stephen Morelli
Phone: 503-745-8324
E-mail: stevemorelli@freightliner.com
Contact: Dennis Manchester
Phone: 336-292-4190
E-mail: dennismanchester@freightliner.com
Contact: Scott Smith
Phone: 503-745-7420
E-mail: scottsmith@freightliner.com
Web site: http://www.freightliner.com/

Goshen Coach
Contact: Ed Parr
Phone: 574-206-7006
E-mail: emparr@goshencoach.com
Web site: http://www.goshencoach.com/

Heil Environmental Industries
Contact: Larry Stone
Phone: 800-824-4345
Fax: 423-855-3477
E-mail: lstone@heilco.com
Web site: http://www.heilco.com/

ISE Research Corp.
Contact: Tom Bartley
Phone: 619-287-8785
Fax: 619-287-8795
E-mail: tbartley@isecorp.com
Web site: http://www.iseresearch.com/

Jasper Engines & Transmissions
Contact: Calvin Thorn
Phone: 800-827-7455, ext. 2027
Fax: 812-634-1820
E-mail: cthorn@jasperengines.com
Web site: http://www.jasperengines.com/

John Deere Power Systems
Contact: Tom Cummings
Phone: 319-292-5220
Fax: 319-292-5075
Web site: http://www.deere.com/

Kalmar Industries
Contact: Ron Gage
Phone: 800-982-1527 or 903-759-5490
Fax: 903-297-8166
Web site: http://www.kalmarind.com/

Kenworth Trucks
Contact: Evan Campbell
Phone: 206-828-5758
Contact: Brian Lindgren
Phone: 425-828-5678
E-mail: blindgren@paccar.com
Web site: http://www.kenworth.com/

Mack Trucks Inc.
Contact: Stephen Ginter
Phone: 610-709-3259
Fax: 610-709-2380
E-mail: steve_ginter@macktrucks.com
Web site: http://www.macktrucks.com/

McNeilus Truck Manufacturing (Division of Oshkosh Truck)
Contact: Tom Harris
Phone: 507-374-6321
E-mail: tharris@mcneilusco.com
Contact: James Johnston
Phone: 507-374-6321
E-mail: dyerhart@mcneilusco.com
Web site: http://www.mcneilusco.com/

Molly Corp.
Contact: Stillman Bradish
Phone: 207-646-5908, ext. 15
Fax: 207-646-6497
E-mail: sbradish@mollycorp.com
Web site: http://www.mollycorp.com/

Motor Coach Industries
Contact: John Andrews
Phone: 847-285-2100
Fax: 847-285-2106
E-mail: marketing@mcicoach.com
Contact: Lori Pontarelli
E-mail: lori.pontarelli@mcicoach.net
Web site: http://www.mcicoach.com/

Neoplan USA Corp.
Contact: James Gaspard
Phone: 719-336-3256
Fax: 719-336-4201
E-mail: james.gaspard@neoplan.com
Web site: http://www.neoplanusa.com/

New Flyer of America
Contact: Roger Hristovski
Phone: 204-224-1251
Fax: 204-224-4214
E-mail: roger_hristovki@newflyer.com
Web site: http://www.newflyer.com/

North American Bus Industries
Contact: Richard Himes
Phone: 818-610-0330
Fax: 818-610-0335
E-mail: rich.himes@nabiusa.com
Web site: http://www.nabiusa.com/

Nova Bus Corp.
Contact: Jean-Pierre Baracat
Phone: 450-974-6052
Fax: 450-974-3001
E-mail: jean-pierre.baracat@volvo.com
Web site: http://www.novabus.com/

Optima Bus (formerly Chance Coach Inc.)
Contact: Steve Kratzer
Phone: 316-779-7710, ext. 344
Fax: 316-779-7727
Web site: http://www.optimabus.com/

Orion Bus Industries
Contact: Mark Brager
Phone: 905-403-7806
Fax: 905-403-8600
E-mail: mbrager@orionbus.com
Web site: http://www.orionbus.com/

Peterbilt Motors Co.
Contact: Bob Wood
Phone: 925-556-7469
Fax: 925-556-7473
E-mail: bob.wood@paccar.com
Contact: Jim Zito
Phone: 940-591-4084
Web site: http://www.peterbilt.com/

Solectria Corp.
Contact: Doug Alderton
Phone: 781-932-9009
E-mail: alderton@solectria.com
Web site: http://www.solectria.com/

Spartan Motors Chassis Inc.
Contact: Roy Englebrecht
Phone: 517-543-6400
Fax: 517-543-7728
E-mail: rfengelb@spartanmotors.com
Web site: http://www.spartanmotors.com/

Specialty Vehicles Inc.
Contact: Dale DeLine
Phone: 800-784-8726
Fax: 714-848-2114
E-mail: dale.deline@specialtyvehicles.com
Web site: http://www.specialtyvehicles.com/

Starcraft Bus
Contact: Art Henderson
Phone: 800-348-7440, ext. 202
E-mail: ahenderson@forestriverinc.com
Web site: http://www.forestriverinc.com/

Startrans Bus Division/Supreme Corp.
Contact: Samuel Craig
Phone: 877-258-1391
Fax: 574-642-4108
E-mail: sam.craig@startransbus.com
Web site: http://www.startransbus.com/

Sterling Truck Corp./Western Star Trucks
Contact: Jim Crowcroft
Phone: 440-269-5597
Fax: 440-269-5979
E-mail: jimcrowcroft@sterlingtrucks.com
Web site: http://www.sterlingtrucks.com/

Thomas Built Buses
Contact: Ken Heagecock
Phone: 336-889-4871
Fax: 336-841-5734
Web site: http://www.thomasbus.com/

TransTeq
Contact: Dale Hill
Phone: 303-382-1041
Fax: 303-297-3990
E-mail: dale.hill@transteq.com
Web site: http://www.transteq.com/

Trolley Enterprises Inc.
Contact: Joe Perez
Phone: 954-429-3100
Fax: 954-429-3307
Web site: http://www.trolleyenterprises.com/

TYMCO Inc.
Contact: Tom Roberts
Phone: 800-258-9626 or 254-799-5546
Fax: 254-799-2722
E-mail: video@tymco.net
Web site: http://www.tymco.com/

Wittke
Contact: Rob Gnatovich
Phone: 877-948-8531
Fax: 403-529-1821
E-mail: robert@wittke.com
Web site: http://www.wittke.com/

Alternative Fuel Medium and Heavy Engines

Alternative Fuels Technologies, LLC

Web site: http://www.altlngusa.com/

Phone: 970-249-2954
Dealer locator Web site: N/A
Dealer locator phone: N/A

AFT 466 NG

Fuel type: CNG, LNG
Displacement: 7.6 L
Rated horsepower: 250 hp
Peak torque: 643 ft-lb

Emission certifications: CARB Low NO_x (1.4), EPA Heavy-Duty
Emission control device: Yes
Number of cylinders: 6
Dry weight: 800 lb
Applications: Truck, transit bus, school bus, off-road

Model description: Stoichiometric closed-loop, block-learn, three-way emission control catalyst technology; single point fuel management; turbocharger wastegate; SAE J 1939 laptop serial port technology.
Warranty information: Standard 2-yr parts and workmanship warranty. Other warranties available upon request of a given proposal/contract.

Baytech Corporation

Web site: http://www.baytechcorp.com/

Phone: 888-229-2447
Dealer locator Web site: N/A
Dealer locator phone: N/A

6.0 ILEV

Fuel type: CNG
Displacement: 6.0 L
Rated horsepower: 300 hp
Peak torque: 360 ft-lb

Emission certifications: EPA ILEV (Clean Fuel Fleet)
Emission control device: Yes
Number of cylinders: 8
Dry weight: N/A
Applications: Truck, shuttle bus

Model description: Precise CNG fuel injection with stoichiometric, closed-loop, computer-controlled emission control system; performance and fuel economy similar to base gasoline engine. Available in the following models: GM/Chevy van cutaway, C/K trucks, Isuzu NPR, W3500, Workhorse chassis.
Warranty information: Same as base gasoline engine.

6.0 ULEV

Fuel type: CNG
Displacement: 6.0 L
Rated horsepower: 300 hp
Peak torque: 360 ft-lb

Emission certifications: EPA LEV (Clean Fuel Fleet)
Emission control device: Yes
Number of cylinders: 8
Dry weight: N/A
Applications: Truck, shuttle bus

Model description: Precise CNG fuel injection with stoichiometric, closed-loop, computer-controlled emission control system; performance and fuel economy similar to base gasoline engine. Available in the following models: GM/Chevy van cutaway, C/K trucks, Isuzu NPR, W3500, Workhorse chassis.
Warranty information: Same as base gasoline engine.

5.7 ILEV

Fuel type: CNG
Displacement: 5.7 L
Rated horsepower: 211 hp
Peak torque: 275 ft-lb

Emission certifications: CARB Low NO_x (1.3), EPA ILEV (Clean Fuel Fleet)
Emission control device: Yes
Number of cylinders: 8
Dry weight: N/A
Applications: Truck, shuttle bus, street sweeper

Model description: Precise CNG fuel injection with stoichiometric, closed-loop, computer-controlled emission control system; performance and fuel economy similar to base gasoline engine. Available in the following models: Isuzu NPR, GM W3500/4500, P chassis, Workhorse chassis, van cutaway.
Warranty information: Same as base gasoline engine.

5.7 ULEV **Fuel type:** CNG **Displacement:** 5.7 L **Rated horsepower:** 211 hp **Peak torque:** 275 ft-lb	**Emission certifications:** CARB Low NO_x (1.3), EPA ULEV (Clean Fuel Fleet) **Emission control device:** Yes **Number of cylinders:** 8 **Dry weight:** N/A **Applications:** Truck, shuttle bus, street sweeper	**Model description:** Precise CNG fuel injection with stoichiometric, closed-loop, computer-controlled emission control system; performance and fuel economy similar to base gasoline engine. Available in the following models: Isuzu NPR, GM W3500/4500, P chassis, Workhorse chassis, van cutaway. **Warranty information:** Same as base gasoline engine.
4.3 ILEV **Fuel type:** CNG **Displacement:** 4.3 L **Rated horsepower:** 118 hp **Peak torque:** 184 ft-lb	**Emission certifications:** EPA ILEV (Clean Fuel Fleet) **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** N/A **Applications:** Truck	**Model description:** Precise CNG fuel injection with stoichiometric, closed-loop, computer-controlled emission control system; performance and fuel economy similar to base gasoline engine. Available in the following models: P chassis and Workhorse chassis, step vans. **Warranty information:** Same as base gasoline engine.
Clean Air Power/Caterpillar **Web site:** http://www.cleanairpower.com/	**Phone: 858-332-4800** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**	
Dual-Fuel C12 **Fuel type:** CNG, LNG **Displacement:** 12.0 L **Rated horsepower:** 410 hp **Peak torque:** 1,250 ft-lb	**Emission certifications:** CARB Low NO_x (2.5) **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** 2,035 lb **Applications:** Truck, transit bus, school bus, off-road	**Model description:** The Dual-Fuel system operates primarily on natural gas with diesel fuel acting as the ignition source; if the natural gas fuel supply is interrupted, the engine can continue to operate on diesel for safe return to a fueling site. **Warranty information:** Warranty period from date of delivery to the first user is the longer of 12 months, or the balance of the limited warranty provided by Caterpillar, Inc. on the engine for which the Dual Fuel system is being supplied; provided, however, that no such warranty period exceeds 24 months.
Dual-Fuel C10 **Fuel type:** CNG, LNG **Displacement:** 10.3 L **Rated horsepower:** 315 hp **Peak torque: 1,050 ft-lb**	**Emission certifications:** CARB Low NO_x (2.5) **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** 2,015 lb **Applications:** Truck, transit bus, school bus, off-road	**Model description:** The Dual-Fuel system operates primarily on natural gas with diesel fuel acting as the ignition source; if the natural gas fuel supply is interrupted, the engine can continue to operate on diesel for safe return to a fueling site. **Warranty information:** Warranty period from date of delivery to the first user is the longer of 12 months, or the balance of the limited warranty provided by Caterpillar, Inc. on the engine for which the Dual Fuel system is being supplied; provided, however, that no such warranty period exceeds 24 months.

Dual-Fuel 3126 **Fuel type:** CNG, LNG **Displacement:** 7.2 L **Rated horsepower:** 250 hp **Peak torque:** 660 ft-lb	**Emission certifications:** CARB Low NO_x (2.5) **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** 1,450 lb **Applications:** Truck, transit bus, school bus, trolley, shuttle bus, off-road	**Model description:** The Dual-Fuel system operates primarily on natural gas with diesel fuel acting as the ignition source; if the natural gas fuel supply is interrupted, the engine can continue to operate on diesel for safe return to a fueling site. **Warranty information:** 36 mo/150,000 mi (243,000 km)/3,600 operating hours, whichever occurs first after date of delivery to the first user.
Cummins Westport Inc. **Web site:** http://www.cumminswestport.com/	**Phone: 604-718-8100** **Dealer locator Web site:** http://www.cumminswestport.com/ **Dealer locator phone: 604-718-8100**	
B Gas Plus—BG 230 **Fuel type:** CNG, LNG **Displacement:** 5.9 L **Rated horsepower:** 230 hp **Peak torque:** 500 ft-lb	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** 1,018 lb **Applications:** Truck, school bus, trolley, shuttle bus, yard spotter, street sweeper	**Model description:** Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas. **Warranty information:** Bus: 2-yr full warranty with no mileage limitations extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr, full warranty, no mileage limitations.
B Gas Plus—BG 195 **Fuel type:** CNG, LNG **Displacement:** 5.9 L **Rated horsepower:** 195 hp **Peak torque:** 420 ft-lb	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** 1,018 lb **Applications:** Truck, school bus, trolley, shuttle bus, yard spotters, street sweeper	**Model description:** Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas. **Warranty information:** Bus: 2-yr full warranty with no mileage limitations, extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr, full warranty, no mileage limitations.
B LPG Plus—BG 195 **Fuel type:** LPG **Displacement:** 5.9 L **Rated horsepower:** 195 hp **Peak torque:** 420 ft-lb	**Emission certifications:** EPA Heavy-Duty **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** N/A **Applications:** Truck, school bus, trolley, shuttle bus, yard spotter, street sweeper	**Model description:** Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on HD-10 propane (LPG). **Warranty information:** Bus: 2-yr full warranty with no mileage limitations, extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr, full warranty, no mileage limitations.
B Gas Plus—BG 200 **Fuel type:** CNG, LNG **Displacement:** 5.9 L **Rated horsepower:** 200 hp **Peak torque:** 465 ft-lb	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** 1,018 lb **Applications:** Truck, school bus, trolley, shuttle bus, yard spotter, street sweeper	**Model description:** Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas; Euro 3 emission certification. **Warranty information:** Bus: 2-yr full warranty with no mileage limitations, extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr, full warranty, no mileage limitations.

C Gas Plus—CG 250 **Fuel type:** CNG, LNG **Displacement:** 8.3 L **Rated horsepower:** 250 hp **Peak torque:** 660 ft-lb	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** 1,330 lb **Applications:** Truck, school bus, trolley, shuttle bus, refuse truck	**Model description:** Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas; Euro 3 emission certification. **Warranty information:** Bus: 2-yr full warranty with no mileage limitations, extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr/100,000 mi full warranty.
C Gas Plus—CG 275 **Fuel type:** CNG, LNG **Displacement:** 8.3 L **Rated horsepower:** 275 hp **Peak torque:** 750 ft-lb	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** 1,330 lb **Applications:** Truck, transit bus, school bus, shuttle bus, refuse truck	**Model description:** Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas; Euro 3 emission certification. **Warranty information:** Bus: 2-yr full warranty with no mileage limitations, extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr/100,000 mi full warranty.
C Gas Plus—CG 280 **Fuel type:** CNG, LNG **Displacement:** 8.3 L **Rated horsepower:** 280 hp **Peak torque:** 850 ft-lb	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** 1,330 lb **Applications:** Truck, transit bus, school bus, refuse truck	**Model description:** Full drive by wire; lean burn, spark-ignited, electronically controlled engine designed and certified to operate on natural gas; Euro 3 emission certification. **Warranty information:** Bus: 2-yr full warranty with no mileage limitations, extended major components coverage to 3 yr or 300,000 mi; other applications: 2 yr/100,000 mi full warranty.
Detroit Diesel Corp. **Web site:** http://www.detroitdiesel.com/		**Phone: 313-592-5000** **Dealer locator Web site:** http://www.detroitdiesel.com/ **Dealer locator phone: 313-592-5000**
Series 50G **Fuel type:** CNG, LNG **Displacement:** 8.5 L **Rated horsepower:** 275 hp **Peak torque:** 900 ft-lb	**Emission certifications:** CARB Low NOx (1.2), EPA Heavy-Duty **Emission control device:** No **Number of cylinders:** 4 **Dry weight:** 2,479 lb **Applications:** Transit bus	**Model description:** Certified to 1.2g/hp-h NO_x + NMHC. **Warranty information:** 2-yr/unlimited miles.
Jasper Alternate Fuels **Web site:** http://www.jasperengines.com/		**Phone: 800-827-7455** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**
Jasper 466 **Fuel type:** CNG **Displacement:** 7.6 L **Rated horsepower:** 250 hp **Peak torque:** 632 ft-lb	**Emission certifications:** CARB Low NO_x (2.5), EPA ULEV (Clean Fuel Fleet) **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** 1,600 lb **Applications:** Truck, transit bus, school bus, trolley, shuttle bus	**Model description:** AFT 466 natural gas assembly, advanced air delivery system, portal injection, remanufactured for Alternative Dual Fuels Inc. (806-355-5679). **Warranty information:** See http://www.jasperengines.com./

John Deere Power Systems **Web site:** http://www.johndeere.com/		**Phone: 319-292-5220** **Dealer locator Web site:** http://www.johndeere.com/ **Dealer locator phone: N/A**
6081H 250 **Fuel type:** CNG **Displacement:** 8.1 L **Rated horsepower:** 250 hp **Peak torque:** 800 ft-lb	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** 1,470 lb **Applications:** School bus	**Model description:** Adaptive-learn system maintains peak performance. Closed-loop control system monitors combustion efficiency. Oil change intervals up to 25,000 miles. **Warranty information:** School bus applications: 5 yr or 100,000 mi. Commercial bus: 2 yr, unlimited miles. Extended warranty also available.
6081H 275 **Fuel type:** CNG **Displacement:** 8.1 L **Rated horsepower:** 275 hp **Peak torque:** 800 ft-lb	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** 1,470 lb **Applications:** Refuse truck	**Model description:** Adaptive-learn system maintains peak performance. Closed-loop control system monitors combustion efficiency. Oil change intervals up to 25,000 miles. **Warranty information:** Refuse truck: 2 yr or 150,000 mi, whichever occurs first. Extended warranty is also available.
6081H 280 **Fuel type:** CNG **Displacement:** 8.1 L **Rated horsepower:** 280 hp **Peak torque:** 900 ft-lb	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Emission control device:** Yes **Number of cylinders:** 6 **Dry weight:** 1,470 lb **Applications:** Transit bus, refuse truck	**Model description:** Adaptive-learn system monitors peak performance. Closed-loop control system monitors combustion efficiency. Oil change intervals up to 25,000 miles. **Warranty information:** Transit bus: 2 years, unlimited miles, whichever occurs first. Refuse truck: 2 yr or 150,000 mi, whichever occurs first. Extended warranty is also available.
Mack Trucks, Inc. **Web site:** http://www.macktrucks.com/		**Phone: 610-709-3011** **Dealer locator Web site:** http://www.macktrucks.com/default.aspx?pageid=8 **Dealer locator phone: N/A**
Eco-Tech E7G 325 **Fuel type:** CNG, LNG **Displacement:** 12 L **Rated horsepower:** 325 hp **Peak torque:** 1,050 ft-lb	**Emission certifications:** CARB Low NO_x (2.4), EPA Heavy-Duty **Emission control device:** No **Number of cylinders:** 6 **Dry weight:** 2,100 lb **Applications:** Truck	**Model description:** Closed-loop, lean-burn electronic engine. Inductive, direct-fire ignition, coil-on-plug design without external spark plug wires. Compression ratio of 11.5:1 with wastegate turbo for excellent fuel economy. **Warranty information:** 3-yr/300,000-mi warranty with 5-yr/500,000-mi warranty on major components. Custom warranties available.

Natural Gas and Propane Medium and Heavy Vehicles

Autocar LLC

Web site: http://www.autocartruck.com/

Phone: 765-489-5499
Dealer locator Web site: N/A
Dealer locator phone: N/A

Xpeditor

Applications: Truck
Fuel type: CNG
Engine makes/models: Cummins Westport C Gas Plus—CG 280
Transmission makes/models: Allison MD/HD
Transmission type: Automatic

Emission certifications: CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 66,000 lb
Seating capacity:2

Model description: Fuel tanks provided by the body manufacturer, not Autocar; capacity and driving range cannot be addressed.
Warranty information: Contact Herb Cooper, Service and Warranty Manager (765-489-6039) or Barry Bledsoe, Service and Warranty Administrator (765-489-6032).

Blue Bird Corp.

Web site: http://www.blue-bird.com/

Phone: 478-822-2262
Dealer locator Web site: http://www.blue-bird.com/distributor.htm
Dealer locator phone: N/A

CSFE Commercial Series

Applications: Transit bus, shuttle bus
Fuel type: CNG, LNG
Engine makes/models: Cummins Westport B Gas Plus—BG 230
Transmission makes/models: Allison MT643, B300, B300R
Transmission type: Automatic

Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 30,000 lb
Seating capacity: 49

Model description: Front-engine transit or shuttle bus.
Warranty information: N/A

Xcel 102

Applications: Transit bus, shuttle bus
Fuel type: CNG
Engine makes/models: Deere 6081H 250
Transmission makes/models: Allison
Transmission type: Automatic

Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 36,200 lb
Seating capacity: 49

Model description: Transit or shuttle bus in lengths of 30, 35, and 40 ft with wheelbases of 150, 217, and 273 in.
Warranty information: N/A

Ultra LF Series

Applications: Transit bus, shuttle bus
Fuel type: CNG
Engine makes/models: Cummins Westport B Gas Plus—BG 230
Transmission makes/models: Allison LCT 200 Series
Transmission type: Automatic

Emission certifications: CARB Low NO_x (1.8), EPA Heavy-Duty
Fuel capacity: N/A
Estimated driving range: N/A
GVW: 28,660 lb
Seating capacity: 35

Model description: Low-floor commercial transit or shuttle bus available in 30 ft (with 157-in wheelbase) and 35 ft (with 222-in wheelbase).
Warranty information: N/A

Micro Bird

Applications: Shuttle bus, school bus
Fuel type: CNG
Engine makes/models: Ford VRG 220
Transmission makes/models: N/A
Transmission type: Automatic

Emission certifications: CARB Low NO_x (0.5), EPA ULEV (Clean Fuel Fleet)
Fuel capacity: 2,250 scf
Estimated driving range: N/A
GVW: 14,050 lb
Seating capacity: 30

Model description: Student transport shuttle on Ford E-450 super-duty chassis. Ideal for special-needs transportation. Rust-free aluminum body and roof panels.
Warranty information: N/A

CS Series Rear-Engine **Applications:** Transit bus, shuttle bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport B Gas Plus—BG 230; Deere 6081H 250, 6081H 275 **Transmission makes/models:** Allison AT545, MT643, B300, B300R **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Fuel capacity:** N/A **Estimated driving range:** N/A **GVW:** 31,000 lb **Seating capacity:** 49	**Model description:** Available in 32- to 39-ft transit or shuttle bus. **Warranty information:** N/A
All American RE **Applications:** School bus **Fuel type:** CNG **Engine makes/models:** Deere 6081H 250 **Transmission makes/models:** Allison 2000 Series **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Fuel capacity:** N/A **Estimated driving range:** N/A **GVW:** N/A **Seating capacity:** 84	**Model description:** School bus available in 66-passenger (with 189-in. wheelbase) or 84-passenger (with 273-in. wheelbase) models. **Warranty information:** N/A
Champion Bus, Inc. **Web site:** http://www.championbus.com/		**Phone: 800-776-4943** **Dealer locator Web site: N/A** **Dealer locator phone: 810-724-6474**
CTS **Applications:** Transit bus, shuttle bus **Fuel type:** LNG **Engine makes/models:** Cummins Westport B Gas Plus—BG 195 **Transmission makes/models:** Allison 2000 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Fuel capacity:** 36 gal **Estimated driving range:** 300 mi **GVW:** 25,500 lb **Seating capacity:** 32	**Model description:** Built on a Freightliner rail chassis with a custom design bus body unique to Champion. Meets all ADA requirements. **Warranty information:** Body: 5-yr/75,000 mi. Contact: Dick Cutcher (810-724-6474).
CTS **Applications:** Transit bus, shuttle bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport B Gas Plus—BG 195 **Transmission makes/models:** Allison 2000 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Fuel capacity:** 5,200 scf **Estimated driving range:** N/A **GVW:** 25,500 lb **Seating capacity:** 32	**Model description:** Built on a Freightliner rail chassis with a custom design bus body unique to Champion. Meets all ADA requirements. **Warranty information:** Body: 5-yr/75,000 mi. Contact: Dick Cutcher (810-724-6474).
CTS **Applications:** Transit bus, shuttle bus **Fuel type:** LPG **Engine makes/models:** Cummins Westport B LPG Plus—BG 195 **Transmission makes/models:** Allison 2000 **Transmission type:** Automatic	**Emission certifications:** EPA Heavy-Duty **Fuel capacity:** 100 gal **Estimated driving range:** 300 mi **GVW:** 25,500 lb **Seating capacity:** 32	**Model description:** Built on a Freightliner rail chassis with a custom design bus body unique to Champion. Meets all ADA requirements. **Warranty information:** Body: 5-yr/75,000 mi. Contact: Dick Cutcher (810-724-6474).
Defender **Applications:** Transit bus, shuttle bus **Fuel type:** CNG **Engine makes/models:** GM VORTEC 6000 **Transmission makes/models:** Allison 1000 **Transmission type:** Automatic	**Emission certifications:** EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 3,596 scf **Estimated driving range:** 175 mi **GVW:** 19,500 lb **Seating capacity:** 32	**Model description:** Medium-duty cutaway model available on GM cutaway chassis. Built to last 7-10 yr in severe duty service. Available to meet all ADA requirements. **Warranty information:** Chassis: 3-yr/36,000-mi. Body: 5-yr/75,000-mi. Contact: Dick Cutcher (810-724-6474).

CTS Trolley **Applications:** Trolley **Fuel type:** CNG **Engine makes/models:** Cummins Westport B Gas Plus—BG 230 **Transmission makes/models:** Allison 2000 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Fuel capacity:** 5,200 scf **Estimated driving range:** N/A **GVW:** 25,500 lb **Seating capacity:** 32	**Model description:** Built on a Freightliner rail chassis with a custom design bus body unique to Champion. Meets all ADA requirements. **Warranty information:** Body: 5-year/75,000 miles. Contact: Dick Cutcher (810-724-6474).
CTS Trolley **Applications:** Trolley **Fuel type:** LPG **Engine makes/models:** Cummins Westport B LPG Plus—BG 195 **Transmission makes/models:** Allison 2000 **Transmission type:** Automatic	**Emission certifications:** EPA Heavy-Duty **Fuel capacity:** 100 gal **Estimated driving range:** N/A **GVW:** 25,500 lb **Seating capacity:** 32	**Model description:** Built on a Freightliner rail chassis with a custom design bus body unique to Champion. Meets all ADA requirements. **Warranty information:** Body: 5-yr/75,000 mi. Contact: Dick Cutcher (810-724-6474).
Challenger **Applications:** Transit bus, shuttle bus **Fuel type:** CNG **Engine makes/models:** Ford VRG 220, GM VORTEC 6000 **Transmission makes/models:** GM 4L80E, Ford 4R100 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (0.5), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 3,596 scf **Estimated driving range:** 175 mi **GVW:** 12,300 lb **Seating capacity:** 25	**Model description:** Ford or Chevrolet cutaway chassis model buses with an all-steel inner cage structure for maximum durability and protection. Available options to meet ADA. **Warranty information:** Chassis: 3-yr/ 36,000-mi. Body: 5-yr/75,000-mi. Contact: Dick Cutcher (810-724-6474).
Challenger **Applications:** Transit bus, shuttle bus **Fuel type:** LPG **Engine makes/models:** Ford VRG 330 **Transmission makes/models:** GM 4L80E, Ford 4R100 **Transmission type:** Automatic	**Emission certifications:** N/A **Fuel capacity:** 68 gal **Estimated driving range:** 300 mi **GVW:** 12,300 lb **Seating capacity:** 25	**Model description:** Ford or Chevrolet cutaway chassis model buses with an all-steel inner cage structure for maximum durability and protection. Available options to meet ADA. **Warranty information:** Chassis: 3-yr/ 36,000-mi. Body: 5-yr/75,000-mi. Contact: Dick Cutcher (810-724-6474).
Crusader **Applications:** Transit bus, shuttle bus **Fuel type:** LPG **Engine makes/models:** Ford VRG 220, GM VORTEC 6000 **Transmission makes/models:** GM 4L80E, Ford 4R100 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (0.5), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 68 gal **Estimated driving range:** 300 mi **GVW:** 14,050 lb **Seating capacity:** 25	**Model description:** Ford or Chevrolet cutaway chassis model buses with an all-steel inner cage structure for maximum durability and protection. Available options to meet ADA. **Warranty information:** Chassis: 3-yr/ 36,000-mi. Body: 5-yr/75,000-mi. Contact: Dick Cutcher (810-724-6474).
Crusader **Applications:** Transit bus, shuttle bus **Fuel type:** CNG **Engine makes/models:** Ford VRG 220, GM VORTEC 6000 **Transmission makes/models:** GM 4L80E, Ford 4R100 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (0.5), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 3,596 scf **Estimated driving range:** 175 mi **GVW:** 14,050 lb **Seating capacity:** 25	**Model description:** Ford or Chevrolet cutaway chassis model buses with an all-steel inner cage structure for maximum durability and protection. Available options to meet ADA. **Warranty information:** Chassis: 3-yr/ 36,000-mi. Body: 5-yr/75,000-mi. Contact: Dick Cutcher (810-724-6474).

Crane Carrier Company **Web site:** http://www.cranecarrier.com/	**Phone: 918-836-1651** **Dealer locator Web site:** http://www.cranecarrier.com/ **Dealer locator phone: N/A**	
LCF **Applications:** Truck **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 280; Deere 6081H 275, 6081H 280 **Transmission makes/models:** Allison MD3560P, HD4560P **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 9,625 scf **Estimated driving range:** N/A **GVW:** 66,000 lb **Seating capacity:** 2	**Model description:** Low cab forward, tilt cab designed for refuse collection. Heavy-duty chassis with left, right, or dual steering. Front-mounted radiator, under cab. Single or tandem rear drive axles. **Warranty information:** Chassis: 1-yr/12,000 mi or 2,000 h; Cummins: 2 yr/100,000 mi; John Deere: 2 yr/150,000 mi; Allison: 2-yr/unlimited miles. Extended warranties available.
LCF **Applications:** Truck **Fuel type:** LNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 275, C Gas Plus—CG 280 **Transmission makes/models:** Allison MD3560P, HD4560P **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 18,563 **Estimated driving range:** N/A **GVW:** 66,000 lb **Seating capacity:**2	**Model description:** Low cab forward, tilt cab designed for refuse collection. Heavy-duty chassis with left, right, or dual steering. Front-mounted radiator, under cab. Single or tandem rear drive axles. **Warranty information:** Chassis: 1-yr/12,000 mi or 2,000 h; Cummins: 2 yr/100,000 mi; John Deere: 2 yr/150,000 mi; Allison: 2-yr/unlimited miles. Extended warranties available.
LET 2 **Applications:** Truck **Fuel type:** LNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 275, C Gas Plus—CG 280 **Transmission makes/models:** Allison MD3560P, HD4560P **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** N/A **Estimated driving range:** N/A **GVW:** 66,000 lb **Seating capacity:** 5	**Model description:** Low entry (both sides) tilt cab designed for refuse collection. Heavy-duty chassis with left, right, or dual steering. Remote mounted radiator, above engine and behind cab. Single or tandem rear drive axles. **Warranty information:** Chassis: 1-yr/12,000 mi or 2,000 h; Cummins: 2 yr/100,000 mi; John Deere: 2 yr/150,000 mi; Allison: 2-yr/unlimited miles. Extended warranties available.
LWT **Applications:** Truck **Fuel type:** LNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 275 **Transmission makes/models:** Allison MD3560P, HD4560P **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** N/A **Estimated driving range:** 200 mi **GVW:** 60,000 lb **Seating capacity:** 2	**Model description:** Low entry (both sides) tilt cab designed for refuse collection. Heavy-duty frame with weight reducing aluminum components. Tank(s) on side of frame. Single or tandem rear drive axles. **Warranty information:** Chassis: 1-yr/12,000 mi or 2,000 h; Cummins: 2 yr/100,000 mi; John Deere: 2 yr/150,000 mi; Allison: 2-yr/unlimited miles. Extended warranties available.

LWT **Applications:** Truck **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 275, C Gas Plus—CG 280 **Transmission makes/models:** Allison MD3560P, HD4560P **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 9,625 scf **Estimated driving range:** 200 mi **GVW:** 60,000 lb **Seating capacity:** 2	**Model description:** Low entry (both sides) tilt cab designed for refuse collection. Heavy-duty frame with weight reducing aluminum components. Tank(s) on side of frame, above frame behind cab or on refuse body. Single or tandem rear-drive axles. **Warranty information:** Chassis: 1-yr/12,000 mi or 2,000 h; Cummins: 2 yr/100,000 mi; John Deere: 2 yr/150,000 mi; Allison: 2-yr/unlimited miles. Extended warranties available.
El Dorado National **Web site:** http://www.enconline.com/	**Phone: 800-362-1287** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**	
MST 2 **Applications:** Transit bus **Fuel type:** LPG **Engine makes/models:** Cummins Westport B LPG Plus—BG 195 **Transmission makes/models:** Allison Series 2000 **Transmission type:** Automatic	**Emission certifications:** EPA Heavy-Duty **Fuel capacity:** 100 gal **Estimated driving range:** 300 mi **GVW:** 25,500 lb **Seating capacity:** 28	**Model description:** 26-30 ft conventional floor body on chassis. Front engine. **Warranty information:** Contact Robert Mendoza (909-591-9557).
MST 2 **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport B Gas Plus—BG 230 **Transmission makes/models:** Allison Series 2000 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Fuel capacity:** 7,462 scf **Estimated driving range:** 200 mi **GVW:** 25,500 lb **Seating capacity:** 28	**Model description:** 26-30 ft conventional floor body on chassis. Front engine. **Warranty information:** Contact Robert Mendoza (909-591-9557).
Transmark **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 250 **Transmission makes/models:** Allison B300R **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 12,092 scf **Estimated driving range:** 300 mi **GVW:** 29,800 lb **Seating capacity:** 32	**Model description:** 30-32 ft conventional floor, body on chassis. **Warranty information:** Contact Robert Mendoza (909-591-9557).
Transmark **Applications:** Transit bus **Fuel type:** LPG **Engine makes/models:** Cummins Westport B LPG Plus—BG 195 **Transmission makes/models:** Allison B300R **Transmission type:** Automatic	**Emission certifications:** EPA Heavy-Duty **Fuel capacity:** 84 gal **Estimated driving range:** 300 mi **GVW:** 29,800 lb **Seating capacity:** 32	**Model description:** 30-32 ft conventional floor, body on chassis. Rear engine. Front control. **Warranty information:** Contact Robert Mendoza (909-591-9557).

Transmark **Applications:** Transit bus **Fuel type:** LNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 280 **Transmission makes/models:** Allison B300R **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 112 gal **Estimated driving range:** 300 mi **GVW:** 29,800 lb **Seating capacity:** 32	**Model description:** 30-32 ft conventional floor, body on chassis. **Warranty information:** Contact Robert Mendoza (909-591-9557).
EZ-Rider 2 **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 250 **Transmission makes/models:** Allison B300R **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 12,092 scf **Estimated driving range:** 300 mi **GVW:** 31,800 lb **Seating capacity:** 29	**Model description:** 30-ft low-floor. Rear engine. **Warranty information:** Contact Robert Mendoza (909-591-9557).
EZ-Rider 2 **Applications:** Transit bus **Fuel type:** LNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 280 **Transmission makes/models:** Allison B300R **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 210 gal **Estimated driving range:** 250 mi **GVW:** 34,000 lb **Seating capacity:** 29	**Model description:** 30-ft low-floor. **Warranty information:** Contact Robert Mendoza (909-591-9557).
Axess **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 280 **Transmission makes/models:** Allison B400R **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 24,184 scf **Estimated driving range:** 400 mi **GVW:** 43,420 lb **Seating capacity:** 43	**Model description:** Low-floor, 40-ft transit bus. Roof-mounted CNG tanks. **Warranty information:** Contact Robert Mendoza (909-591-9557).
Axess **Applications:** Transit bus **Fuel type:** LNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 280 **Transmission makes/models:** Allison B400R **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 238 gal **Estimated driving range:** 400 mi **GVW:** 43,420 lb **Seating capacity:** 43	**Model description:** 40-ft, low-floor. Rear engine. **Warranty information:** Contact Robert Mendoza (909-591-9557).
Elgin Sweeper Company **Web site:** http://www.elginsweeper.com/	**Phone: 847-741-5370** **Dealer locator Web site:** http://www.elginsweeper.com/ **Dealer locator phone: 847-741-5370**	
Broom Bear **Applications:** Street sweeper **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 250 **Transmission makes/models:** Allison MD3560 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 7,280 scf **Estimated driving range:** N/A **GVW:** 33,000 lb **Seating capacity:** 2	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 7,280 scf **Estimated driving range:** N/A **GVW:** 33,000 lb **Seating capacity:** 2

Broom Bear **Applications:** Street sweeper **Fuel type:** LNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 250 **Transmission makes/models:** Allison MD3560 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** N/A **Estimated driving range:** N/A **GVW:** 33,000 lb **Seating capacity:** 2	**Model description:** Mechanical broom-type street sweeper. 10-ft wide sweep path, 4.5-yd^3 hopper with variable height side dump from ground level to 10-ft, 2-in. Fully dual control FL70 conventional chassis. **Warranty information:** One year parts and labor.
Crosswind **Applications:** Street sweeper **Fuel type:** CNG **Engine makes/models:** Cummins Westport B Gas Plus—BG 195 **Transmission makes/models:** Allison 2000 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Fuel capacity:** 7,839 scf **Estimated driving range:** N/A **GVW:** 32,000 lb **Seating capacity:** 2	**Model description:** Regenerative air-type street sweeper, 12-ft wide sweep path, 8-yd^3 rear dump hopper. Fully dual control. SC8000 cab-over chassis or FL70 conventional chassis. **Warranty information:** One year parts and labor.
Crosswind **Applications:** Street sweeper **Fuel type:** LPG **Engine makes/models:** Cummins Westport B LPG Plus—BG 195 **Transmission makes/models:** Allison 2000 **Transmission type:** Automatic	**Emission certifications:** EPA Heavy-Duty **Fuel capacity:** N/A **Estimated driving range:** N/A **GVW:** 32,000 lb **Seating capacity:** 2	**Model description:** Regenerative air-type street sweeper, 12-ft wide sweep path, 8-yd^3 rear dump hopper. Fully dual control. SC8000 cab-over chassis or FL70 conventional chassis. **Warranty information:** One year parts and labor.
Eagle **Applications:** Street sweeper **Fuel type:** CNG **Engine makes/models:** Cummins Westport B Gas Plus—BG 195 **Transmission makes/models:** Allison 2000 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Fuel capacity:** 7,839 scf **Estimated driving range:** N/A **GVW:** 32,000 lb **Seating capacity:** 2	**Model description:** Mechanical broom-type sweeper, 10-ft wide sweep path, 4.5-yd^3 hopper with variable height, side dump from ground level to 10-ft, 2-in Fully dual control SC8000 cab-over chassis or FL70 conventional chassis. **Warranty information:** One year parts and labor.
Eagle **Applications:** Street sweeper **Fuel type:** LPG **Engine makes/models:** Cummins Westport B LPG Plus—BG 195 **Transmission makes/models:** Allison 2000 **Transmission type:** Automatic	**Emission certifications:** EPA Heavy-Duty **Fuel capacity:** N/A **Estimated driving range:** N/A **GVW:** 32,000 lb **Seating capacity:** 2	**Model description:** Mechanical broom-type sweeper, 10-ft wide sweep path, 4.5-yd^3 hopper with variable height, side dump from ground level to 10-ft, 2-in Fully dual control SC8000 cab-over chassis or FL70 conventional chassis. **Warranty information:** One-year parts and labor.
Ford Motor Co. **Web site:** http://www.fleet.ford.com/		**Phone: 877-258-3835** **Dealer locator Web site:** http://www.fleet.ford.com/ **Dealer locator phone: 877-258-3835**
E-450 Cutaway **Applications:** Shuttle bus, truck, school bus **Fuel type:** CNG **Engine makes/models:** Ford VRG 220 **Transmission makes/models:** Ford **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (0.5), EPA ULEV (Clean Fuel Fleet) **Fuel capacity:** 2,313 scf **Estimated driving range:** 150 mi **GVW:** 14,050 lb **Seating capacity:** N/A	**Model description:** Super-duty cutaway for shuttle, small school bus, and small truck applications. Available with 158-in. and 176-in. wheelbase. **Warranty information:** Standard new vehicle limited warranty.

Freightliner Custom Chassis **Web site:** http://www.freightlinerchassis.com/	**Phone: 864-487-1700** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**	
MB55 Commercial Bus Chassis **Applications:** Transit bus, shuttle bus, trolley **Fuel type:** CNG **Engine makes/models:** Cummins Westport B Gas Plus—BG 195 **Transmission makes/models:** Allison 2000 Series **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Fuel capacity:** 6,000 scf **Estimated driving range:** 300 mi **GVW:** 25,500 lb **Seating capacity:** N/A	**Model description:** The MB55 offers a 4- and 5-tank CNG option. **Warranty information:** Contact 1-800-FTL-HELP.
MB55 Commercial Bus Chassis **Applications:** Transit bus, shuttle bus, trolley **Fuel type:** LPG **Engine makes/models:** Cummins Westport B LPG Plus—BG 195 **Transmission makes/models:** Allison 2000 Series **Transmission type:** Automatic	**Emission certifications:** EPA Heavy-Duty **Fuel capacity:** N/A **Estimated driving range:** 300 mi **GVW:** 25,500 lb **Seating capacity:** N/A	**Model description:** N/A **Warranty information:** Contact 1-800-FTL-HELP.
General Motors **Web site:** http://www.gm.com/	**Phone: N/A** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**	
GMC Savana Cutaway (dedicated) **Applications:** Shuttle bus, truck **Fuel type:** CNG **Engine makes/models:** GM VORTEC 6000 **Transmission makes/models:** N/A **Transmission type:** Automatic	**Emission certifications:** EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** N/A **Estimated driving range:** 320 mi **GVW:** 12,300 lb **Seating capacity:** N/A	**Model description:** Cutaway van with wheelbases of 139 and 159 in. Four-speed automatic transmission. Onboard fuel capacity of 29.7 GGE @ 3,600 psi. **Warranty information:** Standard.
GMC Savana Cutaway (bi-fuel) **Applications:** Shuttle bus, truck **Fuel type:** CNG **Engine makes/models:** GM VORTEC 6000 Bi-fuel **Transmission makes/models:** N/A **Transmission type:** Automatic	**Emission certifications:** EPA ULEV (Clean Fuel Fleet) **Fuel capacity:** N/A **Estimated driving range:** N/A **GVW:** 12,300 lb **Seating capacity:** N/A	**Model description:** Cutaway van with wheelbases of 139 and 159 in. Four-speed automatic transmission. CNG/gasoline engine. **Warranty information:** Standard.
Chevrolet Express Cutaway (dedicated) **Applications:** Shuttle bus, truck **Fuel type:** CNG **Engine makes/models:** GM VORTEC 6000 **Transmission makes/models:** N/A **Transmission type:** Automatic	**Emission certifications:** EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** N/A **Estimated driving range:** 320 mi **GVW:** 12,300 lb **Seating capacity:** N/A	**Model description:** Cutaway van with wheelbases of 139 and 159 in. Four-speed automatic transmission. Onboard fuel capacity of 29.7 GGE @ 3,600 psi. **Warranty information:** Standard.

Chevrolet Express Cutaway (bi-fuel) **Applications:** Shuttle bus, truck **Fuel type:** CNG **Engine makes/models:** GM VORTEC 6000 Bi-fuel **Transmission makes/models:** N/A **Transmission type:** Automatic	**Emission certifications:** EPA ULEV (Clean Fuel Fleet) **Fuel capacity:** N/A **Estimated driving range:** N/A **GVW:** 12,300 lb **Seating capacity:** N/A	**Model description:** Cutaway van with wheelbases of 139 and 159 in. Four-speed automatic transmission. CNG/gasoline engine. **Warranty information:** Standard.
Goshen Coach **Web site:** http://www.goshencoach.com/		**Phone: 574-264-7511** **Dealer locator Web site:** http://www.goshencoach.com/ **Dealer locator phone: N/A**
GC 2 CNG **Applications:** Shuttle bus **Fuel type:** CNG **Engine makes/models:** Ford VRG 220 **Transmission makes/models:** Ford 4R100 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (0.5), EPA ULEV (Clean Fuel Fleet) **Fuel capacity:** 15,400 scf **Estimated driving range:** 200 mi **GVW:** 14,050 lb **Seating capacity:** 15	**Model description:** Shuttle bus built on Ford E-450 CNG chassis. Goshen Coach bus has been crash-tested and tested at the Federal Bus Testing Facility (Altoona test) in the 7-yr/ 200,000 mi category. **Warranty information:** Contact Marsha Hunt (574-264-7511).
EuroShuttle **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport B Gas Plus—BG 230 **Transmission makes/models:** Allison 2000 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Fuel capacity:** 20,625 scf **Estimated driving range:** 200 mi **GVW:** 25,500 lb **Seating capacity:** 26	**Model description:** Front-engine rear-drive medium-duty bus built on a Freightliner MB55 CNG chassis. **Warranty information:** Contact Marsha Hunt (574-264-7511).
Kalmar Industries Corp. **Web site:** http://www.magnumterminaltractor.com/		**Phone: 903-759-5490** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**
PT-122/ST102 **Applications:** Terminal tractor **Fuel type:** LPG **Engine makes/models:** Cummins Westport B LPG Plus—BG 195 **Transmission makes/models:** Allison MD 3060 **Transmission type:** Automatic	**Emission certifications:** EPA Heavy-Duty **Fuel capacity:** 46 gal **Estimated driving range:** 200 mi **GVW:** 17,000 lb **Seating capacity:** 1	**Model description:** Purpose-built vehicle for moving travelers and containers. **Warranty information:** Contact Ricardo Jaramillo (903-759-5490).
Mack Trucks, Inc. **Web site:** http://www.macktrucks.com/		**Phone: 610-709-3011** **Dealer locator Web site:** http://www.macktrucks.com/default.aspx?pageid=8 **Dealer locator phone: N/A**
MR **Applications:** Truck, MR Tractor **Fuel type:** LNG **Engine makes/models:** Mack Eco-Tech E7G-325 **Transmission makes/models:** Allison HD4560 5 or 6 speed **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (2.4), EPA Heavy-Duty **Fuel capacity:** 150 gal **Estimated driving range:** 300 mi **GVW:** 80,000 lb **Seating capacity:** 2	**Model description:** For refuse, concrete pumping, fuel oil delivery, and block truck applications. **Warranty information:** Engine: 3-yr/ 300,000-mi; major components: 5-yr/500,000-mi; custom warranties available with the best standard warranties in the industry.

LE **Applications:** Truck **Fuel type:** LNG **Engine makes/models:** Mack Eco-Tech E7G-325 **Transmission makes/models:** Allison HD4560 5 or 6 speed **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (2.4), EPA Heavy-Duty **Fuel capacity:** 150 gal **Estimated driving range:** 300 mi **GVW:** 80,000 lb **Seating capacity:** 2	**Model description:** Dual steer refuse chassis. Available options include front, side, and rear load refuse bodies. The LE chassis is also available with a drop frame for manual side loading. LNG fuel system is factory-installed option. **Warranty information:** Engine: 3-yr/ 300,000-mi; major components: 5-yr/500,000-mi; custom warranties available with the best standard warranties in the industry.
Neoplan USA Corporation **Web site:** http://www.neoplanusa.com/		**Phone: 719-336-3256** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**
AN 460LF **Applications:** Transit bus, commuter bus **Fuel type:** CNG **Engine makes/models:** Detroit Diesel Series 60G 400, Series 60G 330 **Transmission makes/models:** Allison B500 R **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (2.5), EPA Heavy-Duty **Fuel capacity:** 22,000 scf **Estimated driving range:** 300 mi **GVW:** 67,000 lb **Seating capacity:** 57	**Model description:** 60-ft, low-floor; commuter or city transit interior. Articulated. **Warranty information:** Standard.
AN 440LF **Applications:** Transit bus, airport shuttle **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G **Transmission makes/models:** Allison B400R **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 22,000 scf **Estimated driving range:** 300 mi **GVW:** 42,000 lb **Seating capacity:** 36	**Model description:** 40-ft, low-floor. **Warranty information:** Standard.
New Flyer of America **Web site:** http://www.newflyer.com/		**Phone: 204-224-1251** **Dealer locator Web site:** http://www.newflyer.com/ **Dealer locator phone: N/A**
C30LF **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 250 **Transmission makes/models:** Allison B300R **Transmission type:** Either	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 12,092 scf **Estimated driving range:** 350 mi **GVW:** 38,000 lb **Seating capacity:** 25	**Model description:** The C30LF is a 30-ft, heavy-duty low-floor transit bus that has been fully tested, proven and is ready to move people to their destinations through any temperature or weather extreme found in North America. **Warranty information:** Standard warranties apply with option of purchasing extended warranty.
C35LF **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G **Transmission makes/models:** Allison B400R **Transmission type:** Either	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 18,138 scf **Estimated driving range:** 350 mi **GVW:** 39,500 lb **Seating capacity:** 30	**Model description:** The C35LF is a 35-ft heavy-duty low-floor transit bus that has been designed to reduce emissions in a durable and proven platform. **Warranty information:** Standard warranties apply with option of purchasing extended warranty.

C40LF **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G **Transmission makes/models:** Allison B400R **Transmission type:** Either	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 21,161 scf **Estimated driving range:** 350 mi **GVW:** 40,600 lb **Seating capacity:** 40	**Model description:** The C40LF is a 40-ft heavy-duty transit vehicle that set the standard in the low floor urban transit industry. **Warranty information:** Standard warranties apply with option of purchasing extended warranty.
North American Bus Industries, Inc. (NABI) **Web site:** http://www.nabiusa.com/	**Phone: 818-610-0330** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**	
35 LFW **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G **Transmission makes/models:** Allison B400R, ZF HP592 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 18,000 scf **Estimated driving range:** 350 mi **GVW:** 41,150 lb **Seating capacity:** 30	**Model description:** 35-ft low-floor heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. **Warranty information:** Provided upon request.
35 LFW **Applications:** Transit bus **Fuel type:** LNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G **Transmission makes/models:** Allison B400R, ZF HP592 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 408 gal **Estimated driving range:** 350 mi **GVW:** 41,150 lb **Seating capacity:** 30	**Model description:** 35-ft low-floor heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. **Warranty information:** Provided upon request.
40 LFW **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 250, C Gas Plus—CG 275, C Gas Plus—CG 280; Detroit Diesel Series 50G **Transmission makes/models:** Allison B400R, ZF HP592 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 24,000 scf **Estimated driving range:** 350 mi **GVW:** 41,150 lb **Seating capacity:** 40	**Model description:** 40-ft, low-floor heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. **Warranty information:** Provided upon request.
40 LFW **Applications:** Transit bus **Fuel type:** LNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G **Transmission makes/models:** Allison B400R, ZF HP592 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 408 gal **Estimated driving range:** 350 mi **GVW:** 41,150 **Seating capacity:** 40	**Model description:** 40-ft low-floor heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. **Warranty information:** Provided upon request.

40C-LFW **Applications:** Transit bus **Fuel type:** LNG **Engine makes/models:** C Gas Plus—CG 275, Detroit Diesel Series 50G **Transmission makes/models:** Allison B400R, ZF HP592 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 408 gal **Estimated driving range:** 350 mi **GVW:** 39,150 lb **Seating capacity:** 40	**Model description:** 40-ft, all-composite low-floor, heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. **Warranty information:** Provided upon request.
40C-LFW **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G **Transmission makes/models:** Allison B400R, ZF HP592 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 24,000 scf **Estimated driving range:** 350 mi **GVW:** 39,150 lb **Seating capacity:** 40	**Model description:** 40-ft all composite low-floor, heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. **Warranty information:** Provided upon request.
45C-LFW **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G **Transmission makes/models:** Allison B400R, ZF HP592 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 24,000 scf **Estimated driving range:** 350 mi **GVW:** 41,720 lb **Seating capacity:** 46	**Model description:** 45-ft, all-composite, low-floor, heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. **Warranty information:** Provided upon request.
45C-LFW **Applications:** Transit bus **Fuel type:** LNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 275, Detroit Diesel Series 50G **Transmission makes/models:** Allison B400R, ZF HP592 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 408 gal **Estimated driving range:** 350 mi **GVW:** 41,720 lb **Seating capacity:** 46	**Model description:** 45-ft, all-composite, low-floor, heavy-duty city transit bus with one or two passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. **Warranty information:** Provided upon request.
60 LFW **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 280 **Transmission makes/models:** Allison B500 R, ZF HP602 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 27,088 scf **Estimated driving range:** 350 mi **GVW:** 65,000 lb **Seating capacity:** 60	**Model description:** 60-ft, low-floor, heavy-duty articulated city transit bus with up to three passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. **Warranty information:** Provided upon request.
60 LFW **Applications:** Transit bus **Fuel type:** LNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 280 **Transmission makes/models:** Allison B500R, ZF HP602 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 408 gal **Estimated driving range:** 350 mi **GVW:** 65,000 lb **Seating capacity:** 60	**Model description:** 60-ft, low-floor, heavy-duty articulated city transit bus with up to three passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. **Warranty information:** Provided upon request.

60C-LFW **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 280 **Transmission makes/models:** Allison B500 R, ZF HP602 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 27,088 scf **Estimated driving range:** 350 mi **GVW:** 65,000 lb **Seating capacity:** 60	**Model description:** 60-ft, BRT low-floor, heavy-duty articulated city transit bus with rail-like styling. Up to three passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. **Warranty information:** Provided upon request.
60C-LFW **Applications:** Transit bus **Fuel type:** LNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 280 **Transmission makes/models:** Allison B500 R, ZF HP602 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 408 gal **Estimated driving range:** 350 mi **GVW:** 65,000 lb **Seating capacity:** 60	**Model description:** 60-ft, BRT low-floor, heavy-duty articulated city transit bus with rail-like styling. Up to three passenger doors. Choice of seats, passenger windows, interior trim, HVAC, etc. **Warranty information:** Provided upon request.
Optima Bus Corp. **Web site:** http://www.optimabus.com/		**Phone: 316-779-7700** **Dealer locator Web site:** http://www.optimabus.com/ **Dealer locator phone: N/A**
American Heritage Streetcar **Applications:** Trolley **Fuel type:** LPG **Engine makes/models:** Cummins Westport B LPG Plus—BG 195 **Transmission makes/models:** Allison Series **Transmission type:** Automatic	**Emission certifications:** EPA Heavy-Duty **Fuel capacity:** 44 gal **Estimated driving range:** 250 mi **GVW:** 29,500 lb **Seating capacity:** 28	**Model description:** The American Heritage Streetcar from Optima Bus Corporation is a fully enclosed coach that seats up to 28 passengers with two forward-facing wheelchair positions. **Warranty information:** 1-yr complete coverage. Contact Joseph Gibson, Vice President Sales & Marketing (888-391-1777).
American Heritage Streetcar **Applications:** Trolley **Fuel type:** CNG **Engine makes/models:** Cummins Westport B Gas Plus—BG 195 **Transmission makes/models:** Allison Series **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Fuel capacity:** 6,000 scf **Estimated driving range:** 250 mi **GVW:** 29,500 lb **Seating capacity:** 28	**Model description:** The American Heritage Streetcar from Optima Bus Corporation is fully enclosed coach that seats up to 28 passengers with two forward facing wheelchair positions. **Warranty information:** 1-yr complete coverage. Contact Joseph Gibson, Vice President Sales & Marketing (888-391-1777).
Orion Bus Industries **Web site:** http://www.orionbus.com/		**Phone: 905-403-1111** **Dealer locator Web site:** http://www.orionbus.com/orion/0,,0-11-9894-1-10756-1-0-0-0-0-94-9894-0-0-0-0-0-0-0,00.html **Dealer locator phone: N/A**
Orion VII CNG Low-Floor **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 280, Detroit Diesel Series 50G **Transmission makes/models:** Allison, ZF, Voith **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 21,000 scf **Estimated driving range:** 350 mi **GVW:** 42,000 lb **Seating capacity:** 44	**Model description:** The Orion VII CNG is a heavy-duty, low-floor transit bus. Designed for years of reliable service, it is manufactured by North America's most experienced CNG transit bus builder. **Warranty information:** N/A

Orion V CNG High-floor **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport C Gas Plus—CG 280, Detroit Diesel Series 50G **Transmission makes/models:** ZF, Allison, Voith **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 21,000 scf **Estimated driving range:** 350 mi **GVW:** 40,500 lb **Seating capacity:** 47	**Model description:** The Orion V CNG transit bus is a highly reliable, heavy-duty vehicle designed for years of service. Orion is the most experienced CNG bus manufacturer in North America. **Warranty information:** N/A
Peterbilt Motors Co. **Web site:** http://www.peterbilt.com/		**Phone: 925-556-7469** **Dealer locator Web site:** http://www.peterbilt.com/ **Dealer locator phone: N/A**
320 **Applications:** Truck **Fuel type:** LNG **Engine makes/models:** Clean Air Power/Caterpillar Dual-Fuel C10; Cummins Westport C Gas Plus—CG 275, C Gas Plus—CG 280 **Transmission makes/models:** Allison/Eaton-Fuller **Transmission type:** Either	**Emission certifications:** CARB Low NO_x (2.5), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 119 gal **Estimated driving range:** 300 mi **GVW:** 66,000 lb **Seating capacity:** 3	**Model description:** Low cab forward, LH steer or RH steer. Custom wheelbase and frame configuration. **Warranty information:** See www.peterbilt.com.
320 **Applications:** Truck **Fuel type:** CNG **Engine makes/models:** Clean Air Power/Caterpillar Dual-Fuel C10; Cummins Westport C Gas Plus—CG 275, C Gas Plus—CG 280 **Transmission makes/models:** Allison/Eaton-Fuller **Transmission type:** Either	**Emission certifications:** CARB Low NO_x (2.5), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 16,362 scf **Estimated driving range:** 300 mi **GVW:** 66,000 lb **Seating capacity:** 3	**Model description:** Low cab forward, LH steer or RH steer. Custom wheelbase and frame configuration. **Warranty information:** See www.peterbilt.com.
Supreme/Specialty Vehicles **Web site:** http://www.specialtyvehicles.com/		**Phone: 800-784-8726** **Dealer locator Web site:** http://www.specialtyvehicles.com/ **Dealer locator phone: 800-784-8726**
TR 35 RE **Applications:** Trolley **Fuel type:** CNG **Engine makes/models:** Clean Air Power/Caterpillar Dual-Fuel 3126 **Transmission makes/models:** Allison B300 **Transmission type**: Automatic	**Emission certifications:** CARB Low NOx (2.5) **Fuel capacity:** 21,600 scf **Estimated driving range:** 300 mi **GVW:** 31,000 lb **Seating capacity: 35**	**Model description:** Transit trolley, underfloor tanks, rear engine. **Warranty information:** 1-yr./50,000-mi.
Thomas Built Buses **Web site:** http://www.thomasbus.com/		**Phone: 336-889-4871** **Dealer locator Web site:** http://www.thomasbus.com/locator/ **Dealer locator phone: N/A**
Saf-T-Liner **Applications:** School bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport B Gas Plus—BG 230, Deere 6081H 280 **Transmission makes/models:** Allison MD3060 **Transmission type:** Automatic	**Emission certifications:** CARB Low NOx (1.8), EPA Heavy-Duty **Fuel capacity:** 16,225 scf **Estimated driving range:** N/A **GVW:** 36,200 lb **Seating capacity:** 84	**Model description:** Equipped with composite CNG tanks. **Warranty information:** N/A

TransitLiner **Applications:** Transit bus **Fuel type:** CNG **Engine makes/models:** Cummins Westport B Gas Plus—BG 230, Deere 6081H 280 **Transmission makes/models:** Allison MD3060 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Fuel capacity:** 16,225 scf **Estimated driving range:** N/A **GVW:** 36,200 lb **Seating capacity:** 45	**Model description:** Equipped with composite CNG tanks. **Warranty information:** N/A
Trolley Enterprises **Web site:** http://www.trolleyenterprises.com/		**Phone: 800-303-1493** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**
Replica Trolley (propane) **Applications:** Trolley **Fuel type:** LPG **Engine makes/models:** Cummins Westport B LPG Plus—BG 195 **Transmission makes/models:** Allison 2400 **Transmission type:** Automatic	**Emission certifications:** EPA Heavy-Duty **Fuel capacity:** N/A **Estimated driving range:** N/A **GVW:** 33,000 lb **Seating capacity:** 50	**Model description:** ADA-approved, Altoona-tested, Freightliner or Spartan chassis; open or enclosed coach. **Warranty information:** Engine: 5-yr/300,000-mi; Freightliner chassis: 3-yr/100,000-mi; Complete coach: 5-yr/250,000-mi
Replica Trolley (natural gas) **Applications:** Trolley **Fuel type:** CNG **Engine makes/models:** Cummins Westport B Gas Plus—BG 195 **Transmission makes/models:** Allison 2400 **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.8), EPA Heavy-Duty **Fuel capacity:** N/A **Estimated driving range:** N/A **GVW:** 33,000 lb **Seating capacity:** 50	**Model description:** ADA-approved, Altoona-tested, Freightliner or Spartan chassis; open or enclosed coach. **Warranty information:** Engine: 5-yr/300,000-mi; Freightliner chassis: 3-yr/100,000-mi; Complete coach: 5-yr/250,000-mi
TYMCO **Web site:** http://www.tymco.com/		**Phone: 254-799-5546** **Dealer locator Web site: N/A** **Dealer locator phone: 800-258-9626**
Model 600 CNG **Applications:** Street sweeper **Fuel type:** CNG **Engine makes/models:** Baytech 5.7 ULEV, Cummins Westport C Gas Plus—CG 250 **Transmission makes/models:** Allison MD3060P **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.3), EPA ULEV (Clean Fuel Fleet), EPA Heavy-Duty **Fuel capacity:** 7,872 scf **Estimated driving range:** 100 mi **GVW:** 32,000 lb **Seating capacity:** 2	**Model description:** Freightliner FL70 CNG, dual-steering, TYMCO-designed vertical stack fuel storage. Rear engine is Chevrolet 5.7L KEM CNG. **Warranty information:** 1 yr/1,000 h
Model 600 LPG **Applications:** Street sweeper **Fuel type:** LPG **Engine makes/models:** Cummins Westport B LPG Plus—BG 195 **Transmission makes/models:** Allison MD3060P **Transmission type:** Automatic	**Emission certifications:** EPA Heavy-Duty **Fuel capacity:** 48 gal **Estimated driving range:** 125 mi **GVW:** 32,000 lb **Seating capacity:** 2	**Model description:** Fuel tank has dual liquid port fuel system, which feeds separately to truck and auxiliary engine. **Warranty information:** 1 yr/1,000 h

Model 210 CNG **Applications:** Street sweeper **Fuel type:** CNG **Engine makes/models:** Baytech 5.7 ULEV **Transmission makes/models:** Isuzu **Transmission type:** Automatic	**Emission certifications:** CARB Low NO_x (1.3), EPA ULEV (Clean Fuel Fleet) **Fuel capacity:** 7,872 scf **Estimated driving range:** 100 mi **GVW:** 12,500 lb **Seating capacity:** 2	**Model description:** Cab-over Isuzu, TYMCO-designed vertical stack CNG storage tanks. **Warranty information:** 1 yr/1,000 h

Hybrid Electric and Battery Electric Heavy Vehicles

Ebus

Web site: http://www.ebus.com/

Phone: 562-904-3474
Dealer locator Web site: N/A
Dealer locator phone: N/A

Battery-Electric Shuttle **Applications:** Shuttle bus **Drivetrain type:** Pure electric **APU fuel type:** N/A **Battery type:** Lead acid, nickel cadmium **Battery voltage:** N/A **Battery capacity:** N/A **Battery weight:** N/A **Traction motor peak power:** N/A **Traction motor continuous power:** N/A **APU peak power:** N/A	**Emission certification:** EPA Heavy-Duty **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** 8 h **Discharge rate:** N/A **Maximum speed:** 40 mph **GVW:** 19,500 lb **Seating capacity:** 22 **Driving range:** 90 mi	**Available chassis:** N/A **Model Description:** Open-air, ADA-compliant and Altoona-tested shuttle vehicle. **Warranty information:** 1 yr/12,000 mi is standard; option to extend.
Battery-Electric Transit Bus **Applications:** Transit bus, shuttle bus **Drivetrain type:** Pure electric **APU fuel type:** N/A **Battery type:** Lead acid, nickel cadmium **Battery voltage:** N/A **Battery capacity:** N/A **Battery weight:** N/A **Traction motor peak power:** N/A **Traction motor continuous power:** N/A **APU peak power:** N/A	**Emission certification:** EPA Heavy-Duty **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** 8 h **Discharge rate:** N/A **Maximum speed:** 40 mph **GVW:** 19,500 lb **Seating capacity:** 22 **Driving range:** 90 mi	**Available chassis:** N/A **Model Description:** Low-floor, 22-ft, Altoona-tested transit bus; ADA-compliant; quiet ride. **Warranty information:** 1 yr/12,000 mi is standard; option to extend.
Battery-Electric Trolley **Applications:** Trolley **Drivetrain type:** Pure electric **APU fuel type:** N/A **Battery type:** Lead acid, nickel cadmium **Battery voltage:** N/A **Battery capacity:** N/A **Battery weight:** N/A **Traction motor peak power:** N/A **Traction motor continuous power:** N/A **APU peak power:**	**Emission certification:** EPA Heavy-Duty **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** 8 h **Discharge rate:** N/A **Maximum speed:** 40 mph **GVW:** 19,500 lb **Seating capacity:** 22 **Driving range:** 90 mi	**Available chassis:** N/A **Model Description:** Low-floor, Altoona-tested, ADA-compliant trolley; quiet ride. **Warranty information:** 1 ye/12,000 mi is standard; option to extend.
Hybrid-Electric Trolley **Applications:** Trolley **Drivetrain type:** Series (hybrid) **APU fuel type:** CNG, LNG, LPG, diesel **Battery type:** Lead acid, nickel cadmium **Battery voltage:** N/A **Battery capacity:** N/A **Battery weight:** N/A **Traction motor peak power:** N/A **Traction motor continuous power:** N/A **APU peak power:** N/A	**Emission certification:** CARB Low NO_x (1.0), EPA Heavy-Duty **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** N/A **Discharge rate:** N/A **Maximum speed:** 40 mph **GVW:** 19,500 lb **Seating capacity:** 22 **Driving range:** 250 mi	**Available chassis:** N/A **Model Description:** Driven by Capstone MicroTurbine. **Warranty information:** 1 yr/12,000 mi is standard; option to extend.

Hybrid-Electric Transit Bus **Applications:** Transit bus, shuttle bus **Drivetrain type:** Series (hybrid) **APU fuel type:** CNG, LNG, LPG, diesel **Battery type:** Lead acid, nickel cadmium **Battery voltage:** N/A **Battery capacity:** N/A **Battery weight:** N/A **Traction motor peak power:** N/A **Traction motor continuous power:** N/A **APU peak power:** N/A	**Emission certification:** CARB Low NO_x (1.0), EPA Heavy-Duty **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** N/A **Discharge rate:** N/A **Maximum speed:** 40 mph **GVW:** 19,500 lb **Seating capacity:** 22 **Driving range:** 250 mi	**Available chassis:** N/A **Model Description:** Low-floor, 22-ft, Altoona-tested bus. ADA-compliant. Driven by Capstone MicroTurbine. **Warranty information:** 1 yr/12,000 mi is standard; option to extend. Four years on battery.
Electric Vehicles International **Web site:** http://www.evi-usa.com/	**Phone: 765-643-3722** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**	
Eltram **Applications:** Tram **Drivetrain type:** Pure electric **APU fuel type:** N/A **Battery type:** Lead acid **Battery voltage:** 324 V **Battery capacity:** 68 kWh **Battery weight:** N/A **Traction motor peak power:** N/A **Traction motor continuous power:** N/A **APU peak power:** N/A	**Emission certification:** CARB Low NO_x (0) **Regenerative braking:** Yes **Type of charger:** N/A **Charge time:** 6.5 h **Discharge rate:** N/A **Maximum speed:** 25 mph **GVW:** N/A **Seating capacity:** 16 **Driving range:** 75 mi	**Available chassis:** N/A **Model Description:** Pure electric 19.5-ft tram with optional hybrid-electric range-extension package. Range reaches 125 mi. Also available is 24-passenger trailer. **Warranty information:** N/A
Elk **Applications:** Utility vehicle **Drivetrain type:** Pure electric **APU fuel type:** N/A **Battery type:** Lead acid **Battery voltage:** 120 V **Battery capacity:** 26 kWh **Battery weight:** N/A **Traction motor peak power:** N/A **Traction motor continuous power:** N/A **APU peak power:** N/A	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** N/A **Charge time:** 8 h **Discharge rate:** N/A **Maximum speed:** 25 mph **GVW:** N/A **Seating capacity:** 2 **Driving range:** 60 mi	**Available chassis:** N/A **Model Description:** Pure electric utility vehicle with hybrid range-extension option. Cargo and utility box trailable Capacity of 3,000 lb. **Warranty information:** N/A
Sherpa **Applications:** Truck **Drivetrain type:** Pure electric **APU fuel type:** N/A **Battery type:** Lead acid **Battery voltage:** 324 V **Battery capacity:** 215 amp-h **Battery weight:** N/A **Traction motor peak power:** N/A **Traction motor continuous power:** N/A **APU peak power:** N/A	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** N/A **Charge time:** 6 h **Discharge rate:** N/A **Maximum speed:** 30 mph **GVW:** N/A **Seating capacity:** 3 **Driving range:** 100 mi	**Available chassis:** N/A **Model Description:** Small truck 16 1/4-ft length, can be specified with hybrid-electric range-extension package. 5,000-lb cargo capacity. **Warranty information:** N/A

EL-25 **Applications:** Shuttle bus **Drivetrain type:** Series (hybrid) **APU fuel type:** Gasoline, LPG **Battery type:** Lead acid **Battery voltage:** 324 V **Battery capacity:** 215 amp-h **Battery weight:** 5,200 lb **Traction motor peak power:** 84 kW **Traction motor continuous power:** 30 kW **APU peak power:** 10 kW	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** Inductive **Charge time:** 6 h **Discharge rate:** N/A **Maximum speed:** 25 mph **GVW:** 18,700 lb **Seating capacity:** 25 **Driving range:** 60 mi	**Available chassis:** Shuttle bus. **Model Description:** Low-floor hybrid-electric shuttle bus designed for inner city use, airport parking, college campuses, etc. 27.5-ft length. **Warranty information:** N/A
ISE Research—ThunderVolt **Web site:** http://www.iseresearch.com/	**Phone: 619-287-8785** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**	
701 AT **Applications:** Aircraft towing **Drivetrain type:** Pure electric **APU fuel type:** N/A **Battery type:** Nickel sodium chloride **Battery voltage:** 600 V **Battery capacity:** 89 amp-h **Battery weight:** 2,145 lb **Traction motor peak power:** 300 kW **Traction motor continuous power:** 170 kW **APU peak power:** N/A	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** N/A **Discharge rate:** 212 amp **Maximum speed:** 18 mph **GVW:** 60,000 lb **Seating capacity:** N/A **Driving range:** 20 mi	**Available chassis:** N/A **Model Description:** N/A **Warranty information:** N/A
601/701 All Electric **Applications:** Truck **Drivetrain type:** Pure electric **APU fuel type:** N/A **Battery type:** Nickel sodium chloride **Battery voltage:** 600 V **Battery capacity:** 89 amp-h **Battery weight:** 2,145 lb **Traction motor peak power:** 300 kW **Traction motor continuous power:** 170 kW **APU peak power:** N/A	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** N/A **Discharge rate:** 212 amp **Maximum speed:** 70 mph **GVW:** 40,000 lb **Seating capacity:** N/A **Driving range:** 0 mi	**Available chassis:** Various **Model Description:** N/A **Warranty information:** N/A
TB40-HD **Applications:** Transit bus **Drivetrain type:** Series (hybrid) **APU fuel type:** Diesel **Battery type:** Nickel sodium chloride **Battery voltage:** 600 V **Battery capacity:** 17.8 amp-h **Battery weight:** 429 lb **Traction motor peak power:** 300 kW **Traction motor continuous power:** 170 kW **APU peak power:** 230 hp	**Emission certification:** EPA Heavy-Duty **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** N/A **Discharge rate:** 170 amp **Maximum speed:** 70 mph **GVW:** 40,000 lb **Seating capacity:** 35 **Driving range:** 300 mi	**Available chassis:** New Flyer 40-ft Low Floor. **Model Description:** N/A **Warranty information:** N/A

TB30-HG **Applications:** Transit bus **Drivetrain type:** Series (hybrid) **APU fuel type:** Gasoline **Battery type:** Nickel sodium chloride **Battery voltage:** 600 V **Battery capacity:** 17.8 amp-h **Battery weight:** 429 lb **Traction motor peak power:** 300 kW **Traction motor continuous power:** 170 kW **APU peak power:** 205 hp	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** N/A **Discharge rate:** 170 amp **Maximum speed:** 70 mph **GVW:** 35,000 lb **Seating capacity:** 28 **Driving range:** 400 mi	**Available chassis:** Eldorado EasyRider Low Floor. **Model Description:** N/A **Warranty information:** N/A
801-H **Applications:** Yard or urban trailer towing **Drivetrain type:** Series (hybrid) **APU fuel type:** CNG, diesel, gasoline, LNG, LPG **Battery type:** Nickel sodium chloride **Battery voltage:** 600 V **Battery capacity:** 17.8 amp-h **Battery weight:** 429 lb **Traction motor peak power:** 300 kW **Traction motor continuous power:** 170 kW **APU peak power:** N/A	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** N/A **Discharge rate:** 170 amp **Maximum speed:** N/A **GVW:** 40,000-80,000 lb **Seating capacity:** N/A **Driving range:** N/A	**Available chassis:** Various **Model Description:** N/A **Warranty information:** N/A
TB40-HG **Applications:** Transit bus **Drivetrain type:** Series (hybrid) **APU fuel type:** Gasoline **Battery type:** Nickel sodium chloride **Battery voltage:** 600 V **Battery capacity:** 17.8 amp-h **Battery weight:** 429 lb **Traction motor peak power:** 300 kW **Traction motor continuous power:** 170 kW **APU peak power:** 305 hp	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** N/A **Discharge rate:** 170 amp **Maximum speed:** 70 mph **GVW:** 40,000 lb **Seating capacity:** 35 **Driving range:** 300 mi	**Available chassis:** New Flyer 40-ft Low Floor. **Model Description:** N/A **Warranty information:** N/A
New Flyer of America **Web site:** http://www.newflyer.com/		**Phone: 204-224-1251** **Dealer locator Web site:** http://www.newflyer.com/ **Dealer locator phone: N/A**
DE60LF **Applications:** Transit bus **Drivetrain type:** Dual-mode (hybrid) **APU fuel type:** Diesel **Battery type:** Nickel-metal-hydride **Battery voltage:** 600 V **Battery capacity:** 19.5 amp-h **Battery weight:** 1,100 lb **Traction motor peak power:** 300 kW **Traction motor continuous power:** 200 kW **APU peak power:** 246 hp	**Emission certification:** EPA Heavy-Duty **Regenerative braking:** Yes **Type of charger:** N/A **Charge time:** 1 h **Discharge rate:** 300 amp **Maximum speed:** 65 mph **GVW:** 66,000 lb **Seating capacity:** 64 **Driving range:** 400 mi	**Available chassis:** Stainless or carbon steel. **Model Description:** 60-ft articulated, low-floor, heavy-duty transit vehicle, using a diesel engine and parallel electric drive. **Warranty information:** Standard warranties apply with option for purchasing extended warranty.

DE40LF **Applications:** Transit bus **Drivetrain type:** Dual-mode (hybrid) **APU fuel type:** Diesel **Battery type:** Nickel-metal-hydride **Battery voltage:** 600 V **Battery capacity:** 19.5 amp-h **Battery weight:** 1,100 lb **Traction motor peak power:** 260 kW **Traction motor continuous power:** 200 kW **APU peak power:** 207 hp	**Emission certification:** CARB Low NO_x (2.5), EPA Heavy-Duty **Regenerative braking:** Yes **Type of charger:** N/A **Charge time:** 1 h **Discharge rate:** 300 amp **Maximum speed:** 65 mph **GVW:** 40,000 lb **Seating capacity:** 40 **Driving range:** 400 mi	**Available chassis:** Stainless or carbon steel. **Model Description:** 40-ft, low-floor, heavy-duty transit vehicle. **Warranty information:** Standard warranties apply with option for purchasing extended warranty.
Orion Bus Industries **Web site:** http://www.orionbus.com/		**Phone: 905-403-1111** **Dealer locator Web site:** http://www.orionbus.com/orion/0,,0-11-9894-1-10756-1-0-0-0-0-94-9894-0-0-0-0-0-0-0,00.html **Dealer locator phone: N/A**
Orion VII Hybrid Low-Floor **Applications:** Transit bus **Drivetrain type:** Series (hybrid) **APU fuel type:** Diesel **Battery type:** Lead acid **Battery voltage:** 550 V **Battery capacity:** N/A **Battery weight:** N/A **Traction motor peak power:** N/A **Traction motor continuous power:** 180 kW **APU peak power:** N/A	**Emission certification:** EPA Heavy-Duty **Regenerative braking:** Yes **Type of charger:** N/A **Charge time:** N/A **Discharge rate:** N/A **Maximum speed:** 65 mph **GVW:** 42,000 lb **Seating capacity:** 44 **Driving range:** 400 mi	**Available chassis:** N/A **Model Description:** Features HybriDrive series propulsion system from BAE Systems. 100% stainless steel chassis. **Warranty information:** N/A
Solectria Corporation **Web site:** http://www.solectria.com/		**Phone: 781-932-9009** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**
Hybrid Citivan **Applications:** Truck **Drivetrain type:** Series (hybrid) **APU fuel type:** Diesel **Battery type:** Lead acid **Battery voltage:** 312 V **Battery capacity:** 15 kWh **Battery weight:** 1,544 lb **Traction motor peak power:** 125 kW **Traction motor continuous power:** 45 kW **APU peak power:** 17 Kw	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** 4 h **Discharge rate:** 400 amp **Maximum speed:** 65 mph **GVW:** 12,000 lb **Seating capacity:** 2 **Driving range:** 20 mi	**Available chassis:** Workhorse chassis, UCBC body. **Model Description:** N/A **Warranty information:** Contact Solectria for warranty information.
Electric Citivan **Applications:** Truck **Drivetrain type:** Pure electric **APU fuel type:** N/A **Battery type:** Lead acid **Battery voltage:** 312 V **Battery capacity:** 30 kWh **Battery weight:** 3,087 lb **Traction motor peak power:** 125 kW **Traction motor continuous power:** 45 kW **APU peak power:** N/A	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** 8 h **Discharge rate:** 400 amp **Maximum speed:** 65 mph **GVW:** 12,000 lb **Seating capacity:** 2 **Driving range:** 40 mi	**Available chassis:** Workhorse chassis, UCBC body. **Model Description:** N/A **Warranty information:** Contact Solectria for warranty information.

Super 7 **Applications:** Truck **Drivetrain type:** Series (hybrid) **APU fuel type:** Diesel **Battery type:** N/A **Battery voltage:** N/A **Battery capacity:** N/A **Battery weight:** N/A **Traction motor peak power:** N/A **Traction motor continuous power:** N/A **APU peak power:** N/A	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** N/A **Charge time:** N/A **Discharge rate:** N/A **Maximum speed:** 65 mph **GVW:** 50,000 lb **Seating capacity:** N/A **Driving range:** 100 mi	**Available chassis:** Baseline is Kenworth Class 7 T300. **Model Description:** Class 7 truck with Eaton 6-speed manual transmission; APU is 8.3-L Cummins ISC diesel; uses combined parallel-series hybrid configuration. **Warranty information:** Manufacturer has yet to finalize.
TransTeq **Web site:** http://www.transteq.com/		**Phone: 303-382-1041** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**
FAST **Applications:** Shuttle bus **Drivetrain type:** Series (hybrid) **APU fuel type:** LPG **Battery type:** Nickel-metal-hydride **Battery voltage:** 370 V **Battery capacity:** 18 amp-h **Battery weight:** 500 lb **Traction motor peak power:** 120 kW **Traction motor continuous power:** N/A **APU peak power:** 80 kW	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** N/A **Charge time:** N/A **Discharge rate:** N/A **Maximum speed:** 75 mph **GVW:** 13,500 lb **Seating capacity:** 15 **Driving range:** N/A	**Available chassis:** Ford E-350/E-450 Cutaway chassis. **Model Description:** Available with zero-emission drive capability, electric heating and air conditioning, and a variety of body configurations, including passenger, delivery, and paratransit. **Warranty information:** Contact Paul Szilagyi.
Ecomark **Applications:** Shuttle bus **Drivetrain type:** Series (hybrid) **APU fuel type:** CNG **Battery type:** Lead acid **Battery voltage:** 336 V **Battery capacity:** 85 amp-h **Battery weight:** 2,000 lb **Traction motor peak power:** 328 kW **Traction motor continuous power:** N/A **APU peak power:** 67 kW	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** Conductive **Charge time:** N/A **Discharge rate:** N/A **Maximum speed:** 40 mph **GVW:** 41,200 lb **Seating capacity:** 118 **Driving range:** N/A	**Available chassis:** 45-ft, stainless steel/fiberglass composite. **Model Description:** High-capacity "BRT" design with four-passenger entry doors, highly efficient electric drive and superior emissions performance. Stainless steel spaceframe for extended service life. **Warranty information:** Contact Paul Szilagyi.
Trolley Enterprises **Web site:** http://www.trolleyenterprises.com/		**Phone: 800-303-1493** **Dealer locator Web site: N/A** **Dealer locator phone: N/A**
Replica Trolley (hybrid) **Applications:** Trolley **Drivetrain type:** Dual-mode (hybrid) **APU fuel type:** Diesel **Battery type:** Lead acid **Battery voltage:** 336 V **Battery capacity:** N/A **Battery weight:** N/A **Traction motor peak power:** 300 hp **Traction motor continuous power:** 50 hp **APU peak power:** 55 hp	**Emission certification:** N/A **Regenerative braking:** Yes **Type of charger:** N/A **Charge time:** N/A **Discharge rate:** N/A **Maximum speed:** N/A **GVW:** 33,000 lb **Seating capacity:** 50 **Driving range:** N/A	**Available chassis:** Freightliner, Spartan. **Model Description:** 28-ft, Altoona-tested trolley, open or closed roof. **Warranty information:** N/A

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. By investing in technology breakthroughs today, our nation can look forward to a more resilient economy and secure future.

Far-reaching technology changes will be essential to America's energy future. 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 portfolio of energy technologies that will:

- Conserve energy in the residential, commercial, industrial, government, and transportation sectors
- Increase and diversify energy supply, with a focus on renewable domestic sources
- Upgrade our national energy infrastructure
- Facilitate the emergence of hydrogen technologies as vital new "energy carrier's."

The Opportunities

Biomass Program
Using domestic, plant-derived resources to meet our fuel, power, and chemical needs

Building Technologies Program
Homes, schools, and businesses that use less energy, cost less to operate, and ultimately, generate as much power as they use

Distributed Energy & Electric Reliability Program
A more reliable energy infrastructure and reduced need for new power plants

Federal Energy Management Program
Leading by example, saving energy and taxpayer dollars in federal facilities

FreedomCAR & Vehicle Technologies Program
Less dependence on foreign oil, and eventual transition to an emissions-free, petroleum-free vehicle

Geothermal Technologies Program
Tapping the Earth's energy to meet our heat and power needs

Hydrogen, Fuel Cells & Infrastructure Technologies Program
Paving the way toward a hydrogen economy and net-zero carbon energy future

Industrial Technologies Program
Boosting the productivity and competitiveness of U.S. industry through improvements in energy and environmental performance

Solar Energy Technology Program
Utilizing the sun's natural energy to generate electricity and provide water and space heating

Weatherization & Intergovernmental Program
Accelerating the use of today's best energy-efficient and renewable technologies in homes, communities, and businesses

Wind & Hydropower Technologies Program
Harnessing America's abundant natural resources for clean power generation

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