

DAIMLER

Shaping Future Transportation.
CleanDrive Technologies.
A Daimler Initiative.



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Daimler Trucks North America

Business Class M2e

- City Delivery
 - **Fuel Economy Improved 20% - 40%**
 - CO2 Output Reduced 10 to 14 Tons/Year
- Utility
 - **Fuel Economy Improved 40% - 60%**
 - Idle Time Reduced 4 to 5 hours per day
 - CO2 Output Reduced 13 to 17 Tons/Year
- Tractor
 - **Fuel Economy Improved 15% - 30%**
 - CO2 Output Reduced 12 to 19 Tons/Year



Business Class M2-112 Natural Gas

- Benefits of Natural Gas
 - Cleaner burning than diesel
 - Abundant supply in North America
 - Engine efficiency improving over diesel
 - Renewable fuel – LFG (landfill gas) to LNG
 - Can be less expensive to operate than diesel
 - Latest NG technology engines available
- Fleet/Vehicle Benefits
 - Fleet standardization to 2010 emissions now
 - No additional emissions control devices in 2010
 - Component packaging remains unchanged in 2010
 - **FACTORY INSTALLED Natural Gas Engine with related components and FACTORY WARRANTY**



Saf-T-Liner® C2e Hybrid Electric

- 10 units sold for 2009
- Type C School Bus
- Cummins ISB engine
- Eaton Hybrid Electric Power System
- Parallel Charge Sustaining Battery System



Saf-T-Liner® HDX CNG

- Available for Over 10 Years
- Type D School & Activity Bus
- Cummins ISL G
- 2010 EPA Compliant



FCCC supplies TBB with 100% of their hybrid-electric powered school bus chassis as well as 100% of their diesel-powered school bus chassis

Alternatively Fueled Vehicles

FCCC is the leading chassis manufacturer of alt-fuel products, offering the widest array in all markets in which it operates

Walk-in Van:

- Compressed Natural Gas: Mid-nineties
- Hybrid Electric: 2001
- Hydraulic Hybrid: 2009
- All Electric: 2010

Commercial Bus:

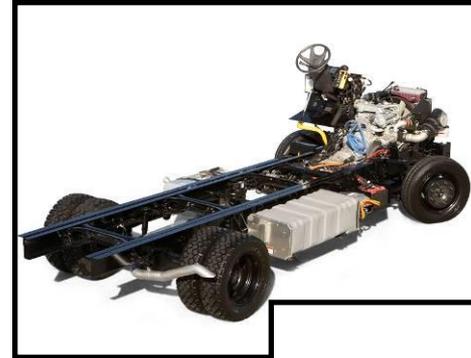
- Compressed Natural Gas: Mid-nineties
- Liquid Propane Gas: Mid-nineties
- Hybrid Electric: 2008

School Bus (Thomas Built Buses):

- Hybrid Electric: 2009

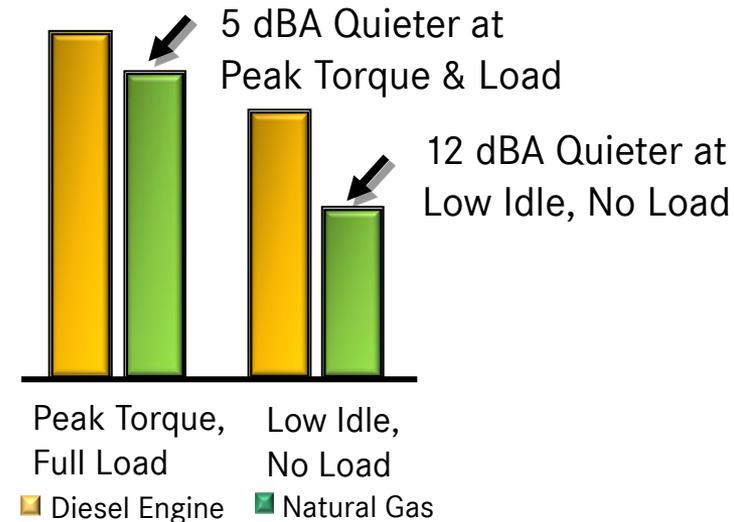
Motorhome:

- Hybrid Electric: 2008



Compressed Natural Gas Chassis

- Currently 1300 WIV and 300 Buses on road
- Increased Fueling Range
 - 16.2 diesel gallon equivalency vs. 13.5 diesel gallon
 - 20% increase in fuel volume
- Quieter
 - 10 CNG trucks idling together are quieter than 1 diesel engine idling
- 2010 Engine Program
 - Have identified engine to replace Cummins B5.9
 - Maintain same fuel system as currently installed
 - EPA 2010 certified
 - Lower cost
- Federal Tax Credits up to \$25,000



Hybrid Electric Chassis

- Currently have over 450 walk-in vans operating in revenue-generating service with an over 99% reliability rate
- FCCC hybrid fleet recently surpassed the 5,000,000 mile milestone
- Advanced “Engine Off” Feature
 - 8% - 9% additional improvement in fuel economy
 - Reduced emissions
- Introduced first-ever hybrid electric motorhome in Dec. 2008
- Introduced hybrid electric commercial bus in Sept. 2008
- TBB C2e school bus features first-ever non-plug-in hybrid electric chassis manufactured by FCCC



Hydraulic Hybrid Chassis

- Developed out of a collaboration between the EPA, Parker Hannifin, FCCC, Morgan Olson and FedEx Ground
- Predicted to deliver 50% improvement in fuel economy
- Fuel economy was predicted through
 - Modeling
 - Simulation
- Fuel economy has been demonstrated through
 - On chassis dyno at USEPA NVFEL
 - Vehicle proving grounds
 - Actual FedEx Ground volunteer contractor route
- Advanced “Engine Off” Feature
 - 50% - 70% increase in MPG



Looking Forward: 2010

All-electric chassis

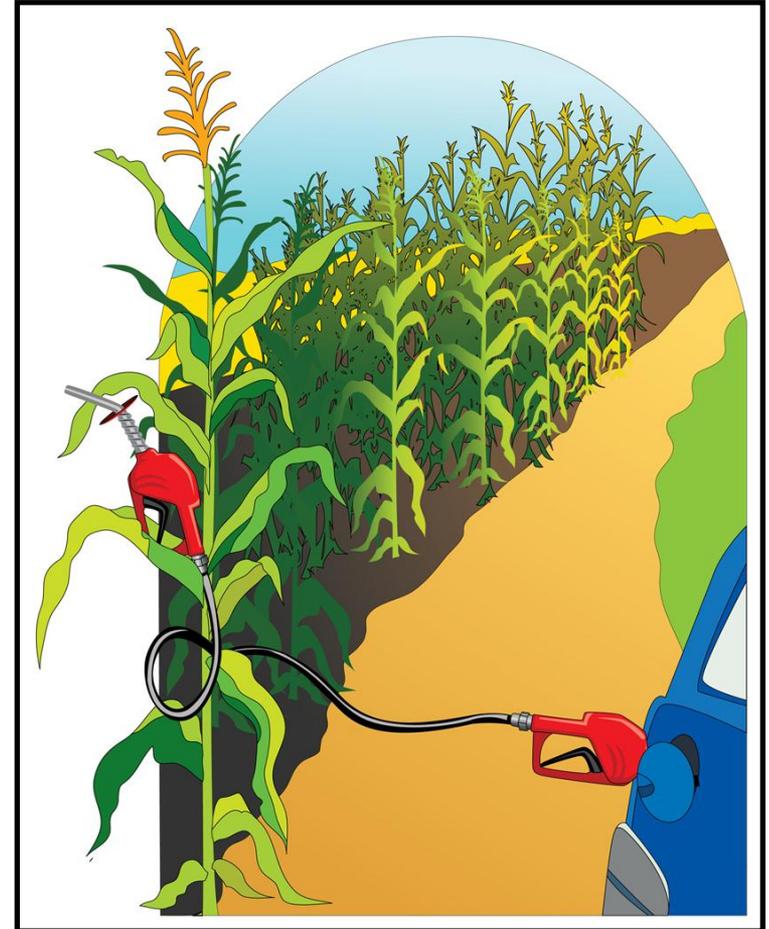
- Zero emissions
- Powered by Enova's 120 kW Plug-In Electric Drive System Technology
- Top speed of 60-65 MPH
- 60- to 75-mile drive range on a single charge with standard 100 amp hour lithium-ion battery
- Climbs hills at full payload capacity without slowdown
- \$0.08 - \$0.10 per mile energy cost vs. \$0.25 - \$0.48 per mile for comparable diesel or gas walk-in van
- Supports driver comfort and safety features such as AC, heating, ABS braking, and power steering
- 6 to 8 hours for a full charge with 220-volt Single Phase System from zero state of charge
- Virtually no noise: keeps driver comfortable and customers content
- Regenerative braking and deceleration feature



Looking Forward: 2010

Biodiesel

- Currently offer up to B10
- In January 2010, will offer up to B20
- Updated components include
 - Fuel tank
 - May require tank heater
 - To be determined after testing completed
 - New fuel sender
 - Heated fuel water separator
 - New fuel lines

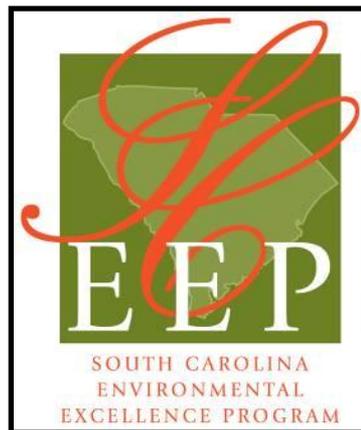


Zero Waste to Landfill Achieved!



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- Three months ahead of schedule
- Pilot plant for DTNA
- Amazing culture change
- In 2007 FCCC shipped 250,000 lbs. per month of solid waste...today we ship zero pounds of waste
- Environmental blueprint for other DTNA facilities to utilize



DTNA Federal Funding Received through Clean Cities Applications

- Awarded over \$32M from DOE
- Maryland, Atlanta, Indiana, New York, L.A.
 - 262 LNG Freightliner M2
 - 81 CNG Freightliner M2
 - 155 HEV Freightliner M2e
 - 50 HEV FCCC Walk-in Van Chassis
 - 40 HHV FCCC Walk-in Van Chassis
 - 50 CNG FCCC Walk-in Van Chassis
 - 638 Total Units on order through funding

Thank You!