

**DOCKET****08-ALT-1**

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**Docket 08-ALT-1****CleanFUEL USA Propane Vehicle and Fuel Market Development Overview****--- Current Engine and Vehicle Platforms ---**

**GM Family-2 / Medium Duty Trucks** / 8.1L engine C4500 – C5500 current production through December 2009; chassis up to 26000 GVWR

**GM Family-3 / Medium Duty Trucks** / 8.1L C6500 – C8500 current production through December 2008; chassis above 26000 to 33000 GVWR

**Blue Bird School Bus Type-C** / Current Offering- will continue with GM 8.1L engine and transition to the \*new GM 6.2L super charged engine for 2010 MY.

**\*GM Medium Duty Chassis – Shuttle Bus** / up to 26000 GVRW Current Offering- will continue with GM 8.1L engine and transition to the \*new GM 6.2L super charged engine for 2010 MY, up to 33 passengers; currently available from (8) shuttle bus OEM body builders.

**--- Proposed New R&D Engine Projects Scheduled for 2009 / 2010 ---**

**\*New GM Generation-4 / 6L Engine** / PERC Funding Approved; currently in Phase-II of R&D with GM Global Alt-Fuel facility in Millbrook, England (**product release scheduled for May 2009**) (*Projected engine offering 2010 – 2015*)

- GM 4500 HD Van Cutaway 14200GVRW \*new Gen-4 6L engine.
- GM 2500 - 3500 Van Cutaway 8501 to 14000 \*new Gen-4 6L engine
- GM 2500 - 3500 HD Cab- Chassis Pick Up Truck; 8501 to 14000 GVRW \*new Gen-4 6L engine

**\*New GM 6.2L Super Charged Engine / Medium Trucks** / C4500 - C5500 up to 26000 GVRW (**product scheduled for release September 2009 – 2010 MY**) (*Projected engine offering 2010 – 2018*)

**\*New Blue Bird School Bus Type-A / GM 4500 Van Cutaway** / 14000 GVRW / 2010 MY will feature \*new GM generation-4 / 6L engine.

**\*New Shuttle Bus / GM 4500 Van Cutaway** / 14200 GVRW / 2010 MY will feature \*new GM generation-4 / 6L engine.

**\*New Shuttle Bus / GM 2500 – 3500 Van Cutaway** / 8501 to 14000 GVRW / 2010 MY will feature \*new GM generation-4 / 6L engine.

**Ford 4.6L** / Bi-Fuel propane-gasoline ½-Ton Van Accubuilt / Prime-Time Shuttle Van (January 2009).

**Workhorse** UPS / FedEx 42 Chassis GM 6L engine / (5-units) going into Canada Pre-Production units Customer Evaluation (November 2008) Cold Weather & Duty Cycle Performance Testing Evaluation.

**--- Additional Propane Engine Feasibility Projects Being Considered ---**

**GM Gen-4 6L Hybrid** propane electric dual mode, currently in research phase to evaluate best available technology.

**GM 2.5L** Engine for U.S. Postal Service Vehicle

**Ford 5.4 & 6.8L** Engines for Cargo Vans and Pick-up Trucks (*depending on Roush Ind. development plans and ability to achieve 50-state certification*)

**Genset / Industrial Engine Development:** After certification of the On-Road GM 6L engine is completed, we plan to develop Genset and industrial applications with the new GM 6L engine.

**Cummins 8.3L** / (\$2.2M PERC funding on the table); CFUSA looking to integrate LPI System, PERC currently in discussions with Cummins and PACCAR for possible chassis offerings, as well as Blue Bird School Bus and El Dorado National for Transit Bus applications. This engine could also be used for Re-Power applications for both on and off road engines.

**-- Current Dealer Network and \*New Product Distribution Centers --**

**CFUSA Master Dealer and Propane Upfit Franchise Development Program**

General Motors Medium Duty Truck Dealers currently (43) Nationwide, (4) in CA

General Motors Light Duty Master Dealer 6L Program, Rollout Scheduled for March 2009

Blue Bird Master Dealer Program, A-Z Bus Sales in Colton, Sacramento and Fresno, CA (3)

Shuttle Bus Master Dealer Program, Creative Bus Sales / El Dorado National; Chino and Hayward, CA (2)

\* CFUSA Vehicle Conversion Centers, Up-Fit Facilities w/ Refueling Stations (2009- 2010)

\* CFUSA / ConocoPhillips Announce CFUSA Propane Motor Fuel Stations at 76 Stations throughout CA