ROUSH CLEANTECH

BLUE BIRD

ROUSH CLEANTECH

Ford

MICRO BIRD by GIRARDIN

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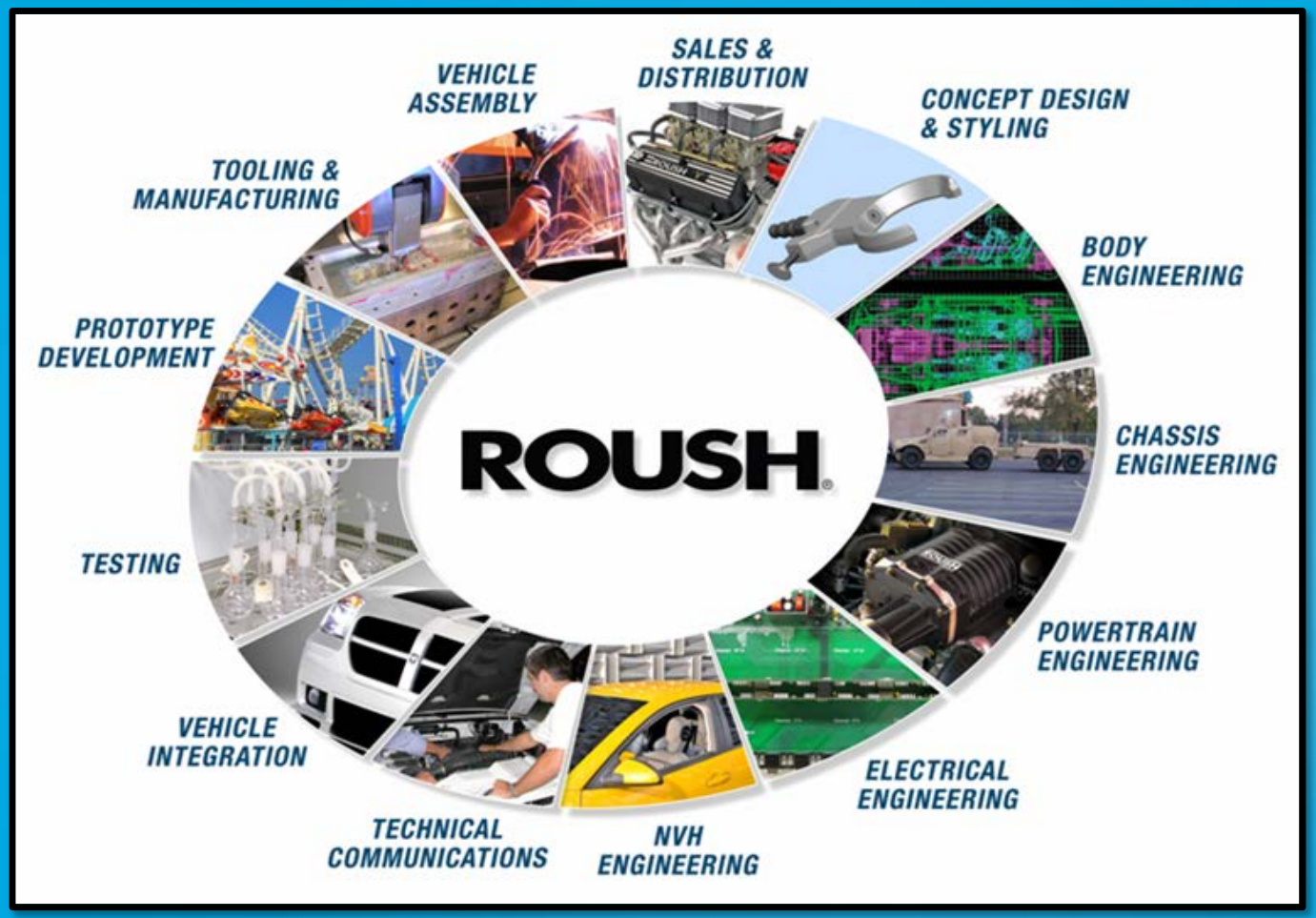
Corporate Overview

ROUSH CLEANTECH



Corporate Wheel of Capability

ROUSH FENWAY RACING

ROUSH

ROUSH Life Sciences

ROUSH

ROUSH CLEANTECH

A SOLUTION

Why Propane AutoGas for the School Bus Industry?

Why? Worlds Most Popular Alternative Fuel

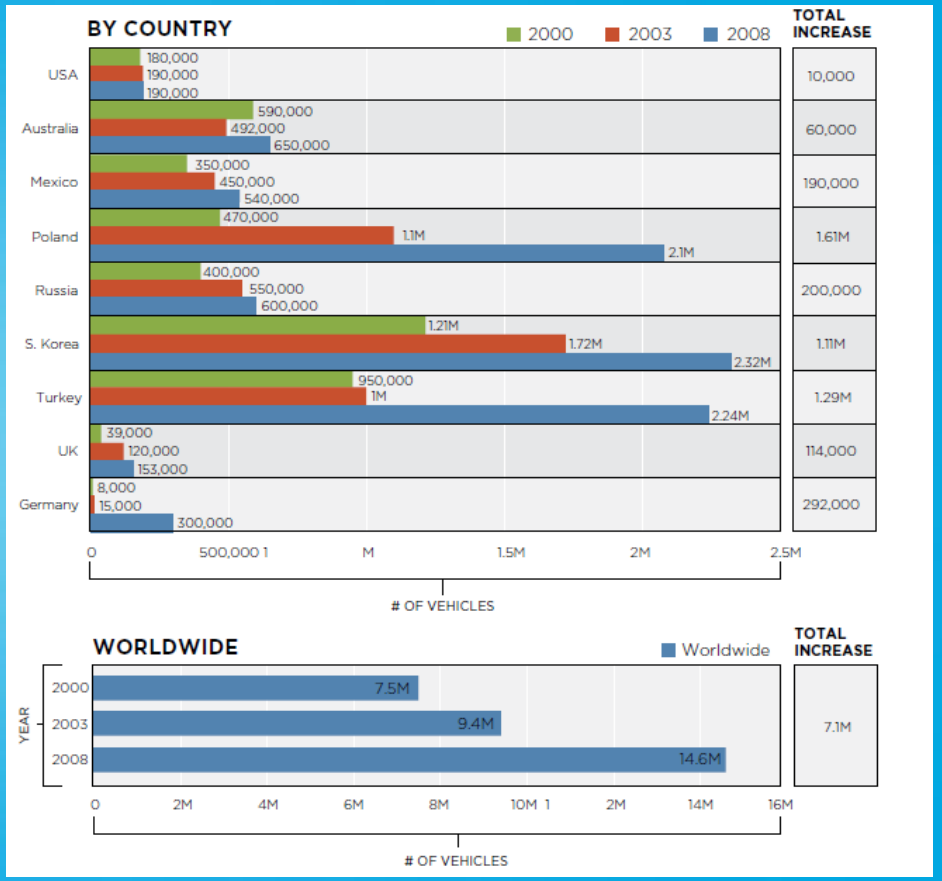
ROUSH CLEANTECH

~270,000 propane vehicles in USA

~17M propane vehicles worldwide

Australia: Every third vehicle off Ford's assembly line is propane autogas powered

Turkey: More propane autogas sold last year than gasoline + diesel combined

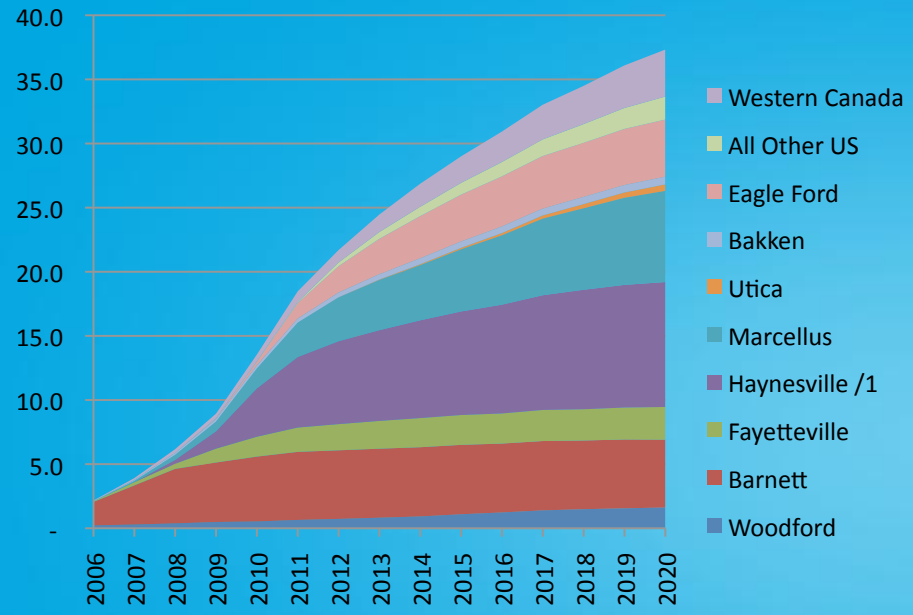


***Source**: World LP Gas Association, Autogas for America*

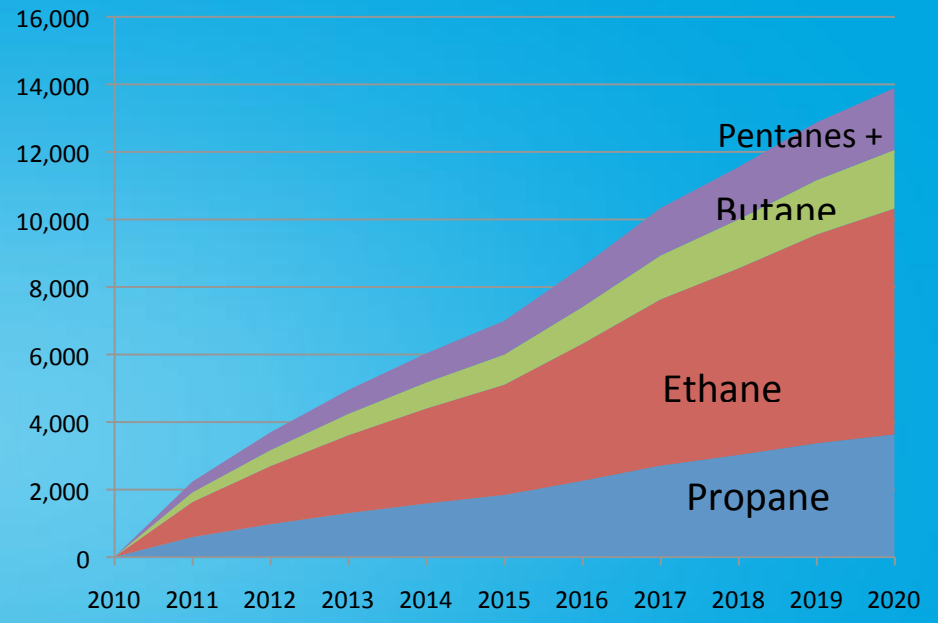
Why? Viable & Domestically Produced

ROUSH CLEANTECH

U.S. and Canada Shale Gas Production (Bcfd)



Increase in Natural Gas Liquids Production From U.S. and Canada Shale Gas (Million Gallons per year)

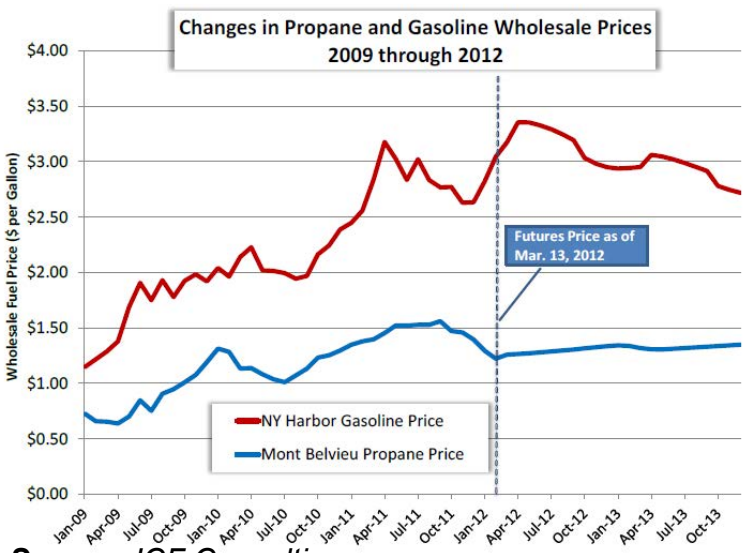


1/ Haynesville production includes production from other shales in the vicinity, e.g., the Bossier Shale

- Natural gas liquids production from shale gas is expected to increase by more than ***6.9 Billion Gallons*** per year between 2010 and 2015.
  - 1.8 billion gallons of new propane supply by 2015 and 3.6 billion gallons by 2020.
  - 3.3 billion gallons of new ethane supply by 2015 and 6.7 billion gallons of by 2020.
- Estimated increase of 17% between 2009 and 2020 from crude and 33% from natural gas

***Source**: ICF Consulting*

Why? Cheaper



***Source**: ICF Consulting*

"We're saving a total of 32 cents per mile with propane autogas."

"We needed these buses to perform without issue from the moment we got them, and they did. They've been reliable and inexpensive to operate."

Ron Latko, Director of Transportation, Mesa Unified School District No. 4 in Phoenix, Arizona.

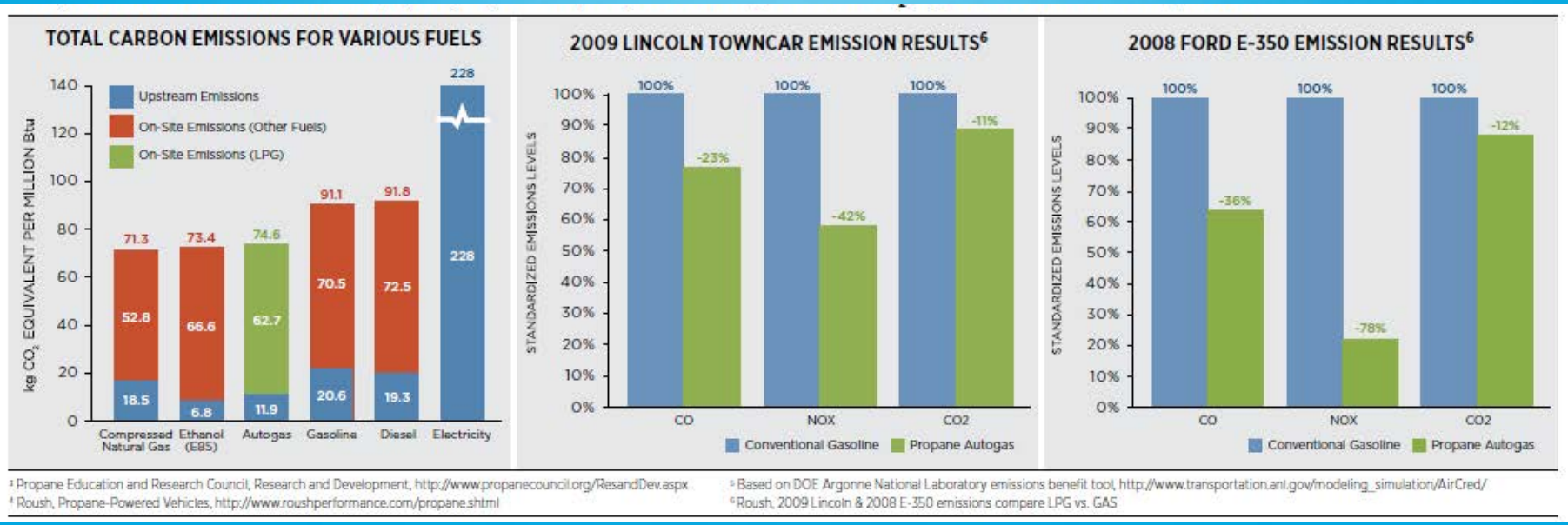
Dixie Pipeline Posted Prices
January 4, 2013
$0.93 – Milner GA
[add freight, supplier fees, taxes]

NEW: $0.50/gge tax credit is back!

Why? Cleaner

ROUSH CLEANTECH

- 12% reduction in Carbon Dioxide (CO2) emissions
- 20% reduction in Nitrogen Oxide (NOx) emissions
- 60% reduction in Carbon Monoxide (CO) emissions
- 80% reduction in Particulate Matter (PM) emissions



[3] Propane Education and Research Council, Research and Development, http://www.propanecouncil.org/ResandDev.aspx
[4] Roush, Propane-Powered Vehicles, http://www.roushperformance.com/propane.shtml
[5] Based on DOE Argonne National Laboratory emissions benefit tool, http://www.transportation.anl.gov/modeling_simulation/AirCred/
[6] Roush, 2009 Lincoln & 2008 E-350 emissions compare LPG vs. GAS

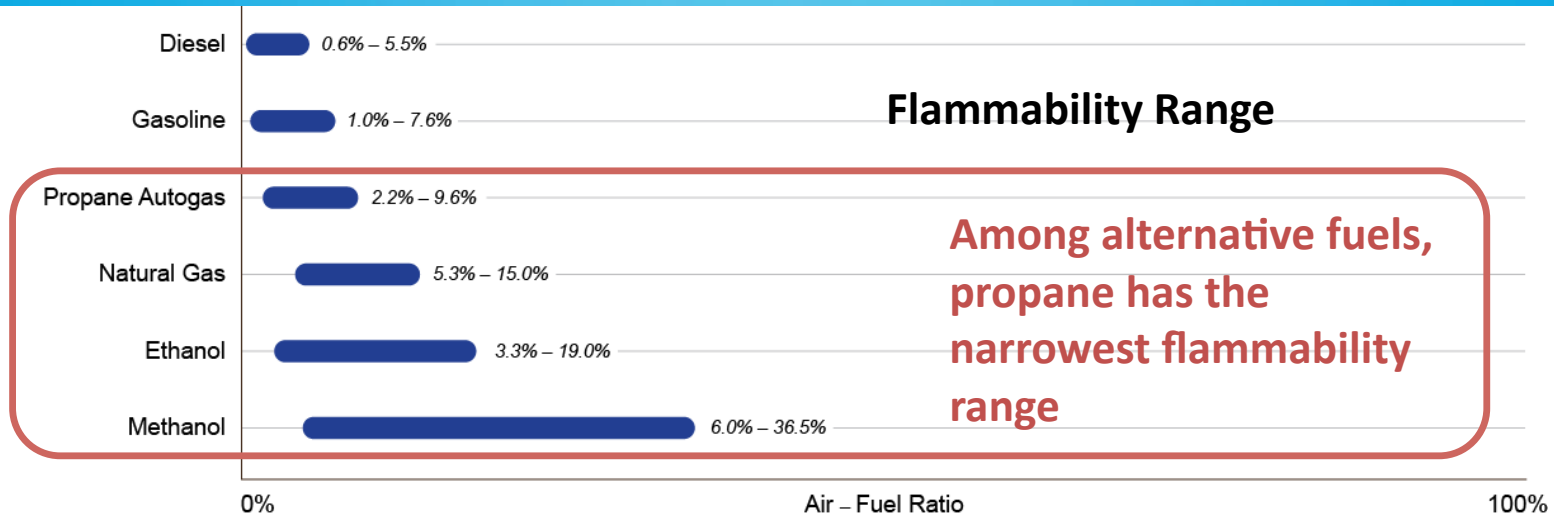
***Source**: Autogas for America*

Why? Safe

ROUSH CLEANTECH

Safe & Non-Toxic

- Low pressure (~ 200 psig)
- Narrow flammability range
- Requires a higher temperature to ignite than gas/diesel
  - Autogas ignition temperature is 920-1020F v 495-536 for gasoline
- Does not puddle – vaporizes and dissipates into the air
  - Nontoxic, Nonpoisonous, Insoluble in water
- Cannot be accidentally ingested



Why? Cheaper

ROUSH CLEANTECH

Safe & Non-Toxic

- Fuel tanks are 20 times more puncture resistant than gasoline
- Built-in safety devices and shut-off valves

16 Mounting Points
Located Inside Frame Rails

- Meet strict set of rules and regulations

NHTSA www.nhtsa.gov
DEPARTMENT OF TRANSPORTATION UNITED STATES OF AMERICA
EPA United States Environmental Protection Agency
ASME SETTING THE STANDARD
UL
NFPA

Why? Product Line to Meet Diverse Fleet Needs

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	 Telecomm.	 Food & Beverage	 Government	 Military	 Propane	 Transportation
Ford F-250 / F-350 5.4L V8 	●	●	●	●	●	
Ford E-150 / E-250 / E-350 5.4L V8 	●	●	●	●		●
Ford E-350 DRW 5.4L V8 		●				●
Ford E-450 DRW 6.8L V10 		●	●			●
Blue Bird Vision 6.8L V10 (Available February, 2012) 						●
Ford F-250 / F-350 6.2L V8 (Available Summer, 2012) 	●	●	●	●	●	
Ford F-450 / F-550 6.8L V10 (Available Q1, 2013) 	●	●	●		●	
Ford F-650 6.8L V10 (Available Q1, 2013) 	●	●			●	

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Product Overview – Blue Bird Vision

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Blue Bird Vision

Model Years:	2012 - Newer
Engine Size:	6.8L V10 (3V)
Tank Sizes:	67 usable gallons
Order Availability:	Blue Bird Dealers
Certification:	EPA CARB
Available:	Now
Warranty:	5 year/100K miles

BLUE BIRD

ROUSH CLEANTECH

Ford

Class A Propane G5 by Micro Bird

ROUSH CLEANTECH

Ford E-450 DRW Cutaway

MICRO BIRD by GIRARDIN

ROUSH CLEANTECH

Ford

Model Years: 2009 – 2012

Engine Size: 6.8L V10

Applications: Dual rear wheel cutaway
5-speed auto transmission

Tank Sizes: Aft-Axle: 41 gallons

Order Availability: Now

Certification: EPA
CARB

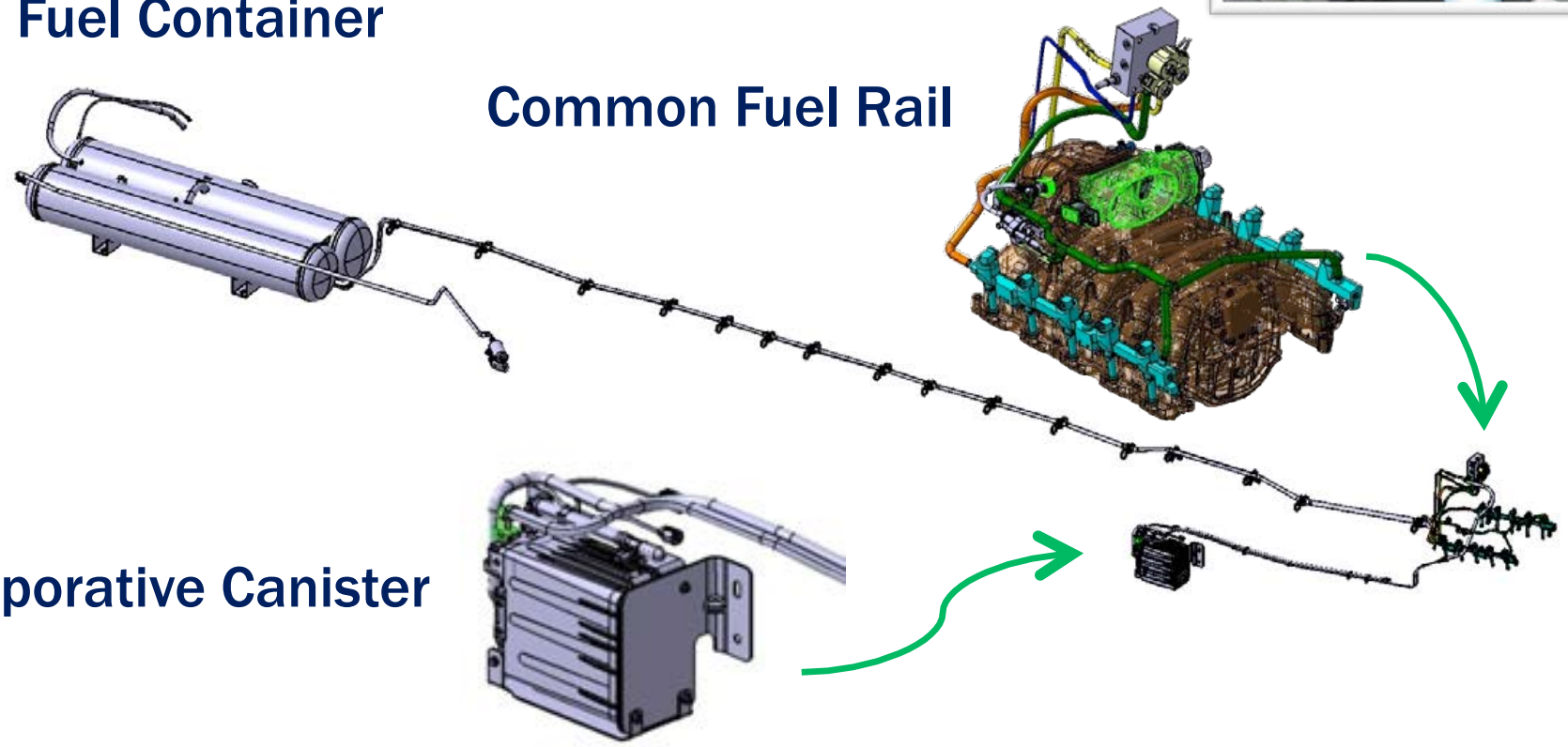
Propane Fuel System – Simple Design

ROUSH CLEANTECH

Propane Packaging & Design

Fuel Container

Common Fuel Rail



Evaporative Canister

Zero Compromise

ROUSH CLEANTECH

Warranty & Serviceability

- Ford warranty coverage goes unchanged
- Ford alt. fuel prep package
- Uses standard Ford diagnostic equipment

Service Locations

- Ford dealers
- We train your mechanics to continue maintaining own vehicles

Training Program

- On-site & Web-based

Warranty Coverage

- In-house warranty staff
- Processes in place to manage claims

Service Parts

- Available director from ROUSH CleanTech

BLUE BIRD

ROUSH CLEANTECH

Ford

MICRO BIRD by GIRARDIN

Ford Diagnostic Equipment

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RETURN ON INVESTMENT:

A Positive Return, Even Without Government Incentives

Savings Calculator

ROUSH CLEANTECH

	71p Blue Bird ISB13 Diesel	Propane (6.8L V10)	Savings or (Cost) to Convert
Capital Costs			
Base Ford Vehicle Purchase Price	$ 85,035.00		
Federal Alternative Motor Vehicle Tax Credit (propane only)		$ 92,035.00	
Total Capital Savings or Investment to Convert:	$85,035.00	$92,035.00	$ (7,000.00)
Operating Costs (fuel)			
Total Vehicle Life (miles)	109,260	109,260	
Average Miles per Gallon	6.5	4.5	
Gallons of Fuel Used Over Life of Vehicle	16,809	24,280	
Fuel Price (per gallon)*	$ 3.50	$ 1.50	
+ Federal excise tax credit / gallon (propane only)	$ -	$ -	
+ Adjusted Fuel Price (per gallon)	$ 3.50	$ 1.50	
Total Fuel Savings or Cost Over Life of Vehicle:	$ 58,832.31	$ 36,420.00	$ 22,412.31
Operating Costs (misc.)			
Maintenance Rate per mile (tune-ups, oil, engine life, etc.)**	$ 0.045	$ 0.034	
Maintenance Costs	$ 4,916.70	$ 3,687.53	
Fuel Loss from Spillage & Theft ($100 per year)	$0.00	$0.00	
Total Misc. Savings or Costs Over Life of Vehicle:	$4,916.70	$3,687.53	$ 1,229.18

Gross Vehicle Lifetime Savings or Loss:	$23,641.48
Net Vehicle Lifetime Savings or Loss:	$16,641.48
Number of Years Vehicle is in Use:	12
Number of Years to Break Even:	3.55

Assumptions:

- *71 passenger base bus, no options*
- *Propane bus up-charge based on current state contract*
- *MPG estimates for diesel and propane are based on customer feedback*
- *Propane fuel price is based on state contract pricing structure. School responsible for crash and electrical related to infrastructure installation.*
- *At least a 25% reduction in maintenance cost is assumed based upon customer feedback.*

Savings Calculator

ROUSH CLEANTECH

Capital Costs	Gasoline (6.2L V8)	Propane (6.2L V8)	Savings (Costs)
Base Ford Vehicle Purchase Price	$30,060.00	$30,375.00	
ROUSH CleanTech Propane Conversion	$0.00	$10,350.00	
State or Federal Incentive (if applicable)	$0.00	$0.00	
Total Capital Savings (or Investment)	**$30,060.00**	**$40,725.00**	**($10,665.00)**
Operating Costs	**Gasoline (6.2L V8)**	**Propane (6.2L V8)**	**Savings (Costs)**
Total Vehicle Life (miles)	200,000	200,000	
Average Miles Per Gallon*	12.00	10.20	
Gallons of Fuel Over Lifetime	16,666.67	19,607.84	
Fuel Price (per gallon)**	$3.25	$1.50	
Fuel Tax Credit / Gallon	$0.00	$0.00	
Adjusted Fuel Price / Gallon	$3.25	$1.50	
Total Fuel Savings (or Costs)	**$54,166.67**	**$29,411.76**	**$24,754.90**
Miscellaneous Costs	**Gasoline (6.2L V8)**	**Propane (6.2L V8)**	**Savings (Costs)**
Maintenance Rate (per mile)***	$0.030	$0.023	
Maintenance Costs	$6,000.00	$4,500.00	
Fuel Loss From Pilferage / Theft	$0.00	$0.00	
Total Misc. Savings (or Costs)	**$6,000.00**	**$4,500.00**	**$1,500.00**
Gross Vehicle Lifetime Savings (Loss)			**$26,254.90**
Net Vehicle Lifetime Savings (Loss)			**$15,589.90**

How many years will the vehicle be used?	Number of years to break even:
4	1.6

Capital Costs	Gasoline (5.4L V8)	Propane (5.4L V8)	Savings (Costs)
Base Ford Vehicle Purchase Price	$30,945.00	$31,260.00	
ROUSH CleanTech Propane Conversion	$0.00	$10,950.00	
State or Federal Incentive (if applicable)	$0.00	$0.00	
Total Capital Savings (or Investment)	**$30,945.00**	**$42,210.00**	**($11,265.00)**
Operating Costs	**Gasoline (5.4L V8)**	**Propane (5.4L V8)**	**Savings (Costs)**
Total Vehicle Life (miles)	200,000	200,000	
Average Miles Per Gallon*	11.00	9.35	
Gallons of Fuel Over Lifetime	18,181.82	21,390.37	
Fuel Price (per gallon)**	$3.25	$1.50	
Fuel Tax Credit / Gallon	$0.00	$0.00	
Adjusted Fuel Price / Gallon	$3.25	$1.50	
Total Fuel Savings (or Costs)	**$59,090.91**	**$32,085.56**	**$27,005.35**
Miscellaneous Costs	**Gasoline (5.4L V8)**	**Propane (5.4L V8)**	**Savings (Costs)**
Maintenance Rate (per mile)***	$0.030	$0.023	
Maintenance Costs	$6,000.00	$4,500.00	
Fuel Loss From Pilferage / Theft	$0.00	$0.00	
Total Misc. Savings (or Costs)	**$6,000.00**	**$4,500.00**	**$1,500.00**
Gross Vehicle Lifetime Savings (Loss)			**$28,505.35**
Net Vehicle Lifetime Savings (Loss)			**$17,240.35**

How many years will the vehicle be used?	Number of years to break even:
4	1.6

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Emissions Calculator

ROUSH CLEANTECH

Emissions Reductions	Gasoline	Propane	Difference
Total Vehicle Life (miles)	200,000	200,000	
Average Miles per Gallon	11.00	9.35	
Gallons of Fuel Used Over Life of Vehicle	**18,181.82**	**21,390.37**	**(3,208.56)**
Carbon Mass per Gallon Fuel (lb. / gal.)	5.10	3.47	
Mass of CO_2 per Gallon Fuel (lb. / gal.)	18.70	12.72	
Total lbs. of CO2 Produced During Vehicle Life	**339,920.00**	**272,047.06**	**67,872.94**
Fewer lbs. of CO_2 Produced Using Propane Autogas			**67,873**

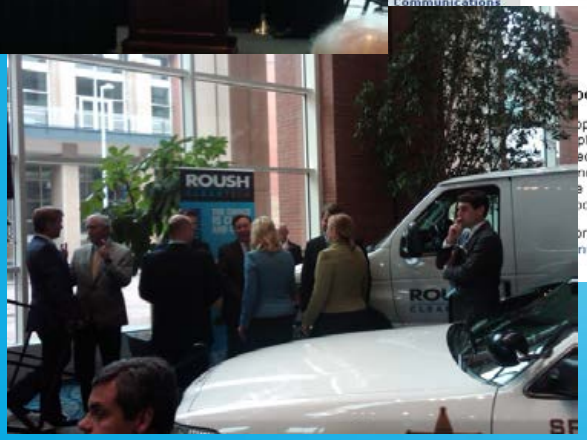
Ford E-250 Cargo Van

ROUSH CLEANTECH

INCENTIVES:

Encouraging Adoption of Alternative Fuels

Virginia Encourages Alternative Fuel Conversion



More Information:

- http://www.administration.virginia.gov/News/viewRelease.cfm?id=835
- http://www.governor.virginia.gov/PolicyOffice/ExecutiveOrders/viewEO.cfm?eo=36&pdf=yes
- www.governor.**virginia**.gov/docs/**PPEA**-SOA-SNR_2011-07-22.pdf
- http://www.governor.virginia.gov/news/viewRelease.cfm?id=1446

Tax Incentives: Federal

HR8 Extends Fuel Excise and Infrastructure Tax Credits

- Retroactive to Jan 1, 2012
- $0.50/GGE for propane autogas
- $30,000 per refueling infrastructure installation

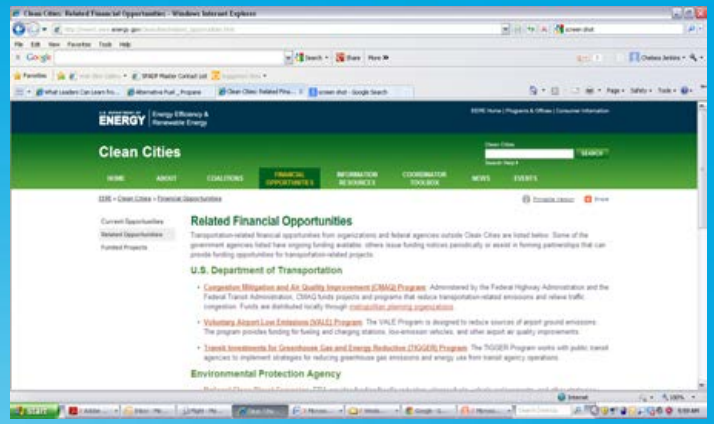
- www.AFDC.Energy.Gov : Click on “Laws & Incentives” or follow
- http://www.afdc.energy.gov/laws/fed_summary

Upcoming Funding Opportunities

ROUSH CLEANTECH

US EPA

- National Clean Diesel Campaign



US DOT

- CMAQ
- VALE
- TIGGER

Useful Websites

- Grants.gov
- AFDC.Energy.Gov
- CleanCities.Energy.Gov
  - http://www1.eere.energy.gov/cleancities/related_opportunities.html

ROUSH® CLEANTECH

TESTIMONIALS:

Real-World Feedback From Real-World Customers

ROUSH CLEANTECH

Link:
http://www.roushcleantech.com/content/student-transportation-inc-places-largest-propane-powered-school-bus-order-industry-history

STUDENT TRANSPORTATION, INC. PLACES LARGEST PROPANE-POWERED SCHOOL BUS ORDER IN INDUSTRY HISTORY WITH ENVIRONMENTALLY-FRIENDLY BLUE BIRD VISION SCHOOL BUSES

Blue Bird to supply more than 400 school buses with ROUSH CleanTech propane autogas fuel systems to Student Transportation, Inc. for use in Omaha, Nebraska

OMAHA, Neb. (December 19, 2012) — Blue Bird and ROUSH CleanTech commend the Metropolitan Omaha Education Consortium and Student Transportation, Inc., (STI) for collaborating to deploy more than 400 Blue Bird Propane-Powered Vision school buses. This contract will cost-effectively transport the students of Omaha while reducing exhaust emissions.

Serving Millard and Omaha Public Schools, the contract is the largest transportation agreement in STI's history. It is also the biggest single order to date of propane buses for Blue Bird, the leading provider of propane autogas powered school buses utilizing the industry-leading ROUSH CleanTech fuel system.

"We are thrilled that STI and Omaha Public Schools made the decision to move to propane autogas, making Omaha a greener city by dramatically reducing the emissions produced in transporting children to school each day," said Phil Horlock, president and CEO of Blue Bird Corporation. "This order — the single largest in the industry's history — shows Omaha's

Case Study – Mesa County Schools

ROUSH CLEANTECH

Industry: Student Transportation
Location: Mesa, AZ
Vehicles: 21 Micro Bird G5 Type A
6 Blue Bird Propane Vision Type C
1 F-250 Ford Pick-Up
Fueling: 18,000 gallon on-site refueling station
2,000 gallon satellite on-site refueling station

By The Numbers:

- $5,667 in fuel savings/yr/bus
- $.326 per mile reduction in operating costs
- $1.31 / gal for propane autogas
- $3.54 / gal for diesel
- 7,200 pounds carbon dioxide eliminated/bus/yr

Case Study – Portland Oregon Schools

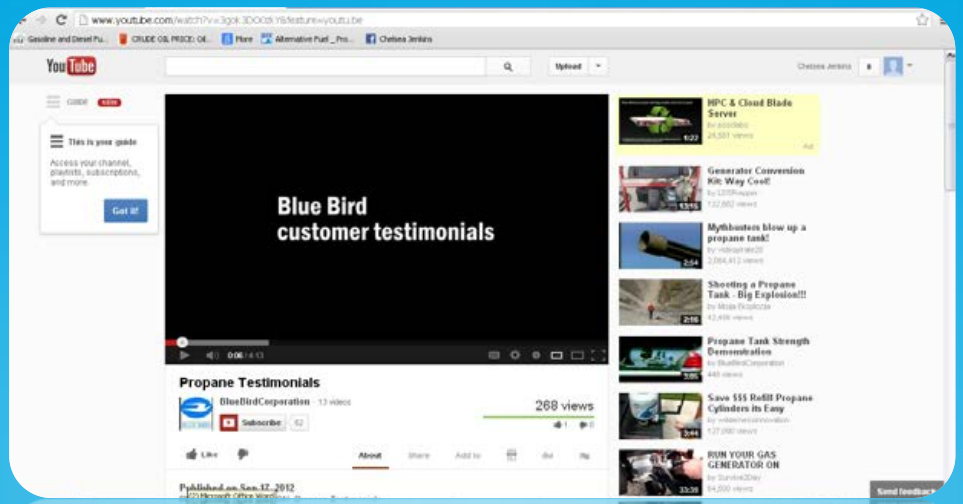
ROUSH CLEANTECH

- Portland School District has used propane-autogas-fueled buses for more than 30 years
- Owns and operates about 75 buses
- In addition, *First Student* owns and operates a large fleet for the school district

"As you can imagine, when you operate as many fleet buses as we do in a large city like Portland, occasionally, accidents are going to happen. I've been here for six years and I don't know of any propane autogas safety issues that we've ever encountered as the result of an accident. These buses and their fuel tanks are extremely durable."

***-- Eric Stewart**, Fleet Service Coordinator*
Portland, Oregon Public School District

Video Testimonials



Blue Bird Customer Testimonials:

http://youtu.be/3gok3DO0zkY

Customer Adoption

ROUSH CLEANTECH

ROUSH CLEANTECH

America is a net exporter of propane: 5 Billion Gallons/year

ROUSH CLEANTECH

BE THE CHANGE

800.59.ROUSH

ROUSHcleantech.com

Chelsea Jenkins
Fleet Account Manager – Eastern Region

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