NEAR ZERO LPG
Enterprise Brand Portfolio

**ROUSH Industries**
- OEM manufacturing, engineering, prototyping and design

**Roush Fenway Racing**
- Dominant NASCAR Sprint Cup racing team

**ROUSH Performance**
- Industry leading high performance vehicles

**ROUSH CleanTech**
- Propane autogas powered commercial vehicles.
Wheel of Capability

- Fabrication
- Sales & Distribution
- Concept Design & Styling
- Body Engineering
- Chassis Engineering
- Powertrain Engineering
- Electrical Engineering
- NVH Engineering
- Technical Communications
- Vehicle Integration
- Testing
- Prototype Development
- Assembly
- Tooling
Our Scorecard

- Over 24,500 vehicles on the road
- Accumulated over 1 billion miles
- Over 1,300 customers
School Bus Deployments – Over 15,000
Non-School Deployments
Consideration Summary

U.S. Energy Independence

Duty Cycle Alignment

Financial

Environmental
Low NOx: Background

- CARB (California Air Resources Board)
  - Established a mechanism for engine MFR’s to pursue lower NOx certification than Federal requirement of 0.20 g/bhp-hr

  - Federal or 0.20
  - 50% lower or 0.10
  - 75% lower or 0.05
  - 90% lower or 0.02
<table>
<thead>
<tr>
<th>Emission Constituent</th>
<th>ROUSH 7.3 LPG</th>
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</thead>
<tbody>
<tr>
<td>NOx (Nitrogen Oxides)</td>
<td>0.021</td>
</tr>
<tr>
<td>HCHO (Formaldehyde)</td>
<td>0.00</td>
</tr>
<tr>
<td>PM (Particulate Matter)</td>
<td>0.0002</td>
</tr>
<tr>
<td>NMHC (Non-Methane Hydrocarbons)</td>
<td>0.051</td>
</tr>
<tr>
<td>CO (Carbon Monoxide)</td>
<td>5.85</td>
</tr>
</tbody>
</table>

Greenhouse Gas Emissions

| GHG Carbon Dioxide (CO₂)                               | 545           |
| GHG Methane (CH₄)                                      | 0.032         |
| GHG Nitrous Oxide (N₂O)                                | 0.02          |

- Approximate average: 70% cleaner than standards
DME Testing

DME / RLPG
Propane Autogas Product Lineup

- Medium duty Ford trucks, chassis cabs, cutaways, and stripped chassis
- Purpose Built Engine
- OEM Ordering Options
- Ship-Thru / Drop-Ship Arrangements
- Factory Ford warranty maintained
- No loss of HP / torque / towing capacity
- Serviceable with existing diagnostic equipment
- Improved Power
- Cam in block
- Port injection
- Oil / Piston Cooling
- Sleeve thickness
Ford F-450 / F-550 – Class 4 / 5

- 6.8L / 7.3L Ultra-Low NOx
- <19,500lbs GVWR
- >169”WB and 64”CA
- Passenger Side Tank
- 35 Usable Gallons
- Up to 200 Miles
- F-600 (<22,000lbs GVWR)
Ford F-650 / F-750 – Class 6 / 7

- 6.8L / 7.3L Ultra-Low NOx
- <33,000lbs GVWR
- All Configurations
- Dual Saddle Mount Short Tanks -
  - Drop Frame
- 55 Usable Gallons
- Up to 250 Miles
Ford F-650 / F-750 – Class 6 / 7

- 6.8L / 7.3L Ultra-Low NOx
- <33,000lbs GVWR
- All Configurations
- Driver Single Side Tank
- 50 Usable Gallons
- Up to 225 Miles
- Dual Long / Short Combination
  - 74 Usable Gallons
- Air Brakes Coming CY2021
Ford F-53 / F-59 – Class 5 / 6

- 6.8L / 7.3L Ultra-Low NOx
- 16,000lb – 26,000lb GVWR
- >168” WB
- Driver Side and After Axle Tank
- 45 Usable Gallons
- Up to 260 Miles
Ford E-350 / E-450 – Class 3 / 4

- 6.8L / 7.3L Ultra-Low NOx
- 10,050 – 14,500lbs GVWR
- Any WB and CA
- After Axle Tank
- 41 and 64 Usable Gallons
- Up to 360 Miles
Customer Success Structure

- Customer Support
- Technical Support
- Field Service
- Technical Publications
- Training
- Warranty + Service Parts

800.59.ROUSH ROUSHcleantech.com