PROPANE AUTOGAS
Who We Are

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.
ROUSH CleanTech

• Founded in 2010.
• Dedicated to developing quality alternative fuel solutions.
• Propane autogas focus.
• EPA and CARB certification ability.
• Platform customization to suit customer needs.
• Reduces operating costs, carbon footprint.
• OEM support through Ford and BPN dealers.
• Creating opportunities for partner companies.
• Using American fuel and American technology.
What is Propane Autogas?

- **Clean:**
  - 24% reduction in Greenhouse Gas (GHG) emissions compared to gasoline.
  - 20% reduction in Nitrogen Oxide (NOx) emissions compared to gasoline.
  - 60% reduction in Carbon Monoxide (CO) emissions compared to gasoline.

- **Domestic:**
  - 90% of propane used in U.S. comes from U.S.
  - 7% of propane used in U.S. comes from Canada.

- **Abundant:**
  - Most refueling infrastructure of any alternative fuel.
  - Major natural gas shale found in U.S.
  - Powers over 25 million vehicles worldwide.

- **Safe:**
  - Low pressure (~ 200 psi).
  - Narrow flammability range.
  - Fuel tanks are 20 times more puncture resistant than gasoline.
Fueling Options

Public Propane Station
- Over 3,000 public stations nationally

Private Infrastructure
- Infrastructure available for little to no cost to you
- Lock in your fuel prices for a whole year

On-site resupply via bobtail fill-up

24 hours / 7 days a week roadside assistance

Propane autogas fills at the same rate as gasoline and diesel
On-Site Fueling

- Ford Michigan Assembly Plant (MI)
- AmeriGas Propane Tank
- Kyrene Elementary School (AZ)
- Bend LaPine School District (OR)
- Rhoads Energy (PA)
- Amerigas Propane Tank
Product Overview

Ford E-450 Cutaway & Strip Chassis

Model Year
2018

Engine Size
6.8L V10 (2V)

Applications
158” / 176” / 186” / 190” / 208” wheelbases.

6-speed automatic transmission.

Fuel Tank Capacity
Aft-axle: 41 gallons (usable)
Extended range: 64 gallons (usable)

Technical Specifications
EPA and CARB approved.
GVWR: < 14,500 lbs.
Requires “91G” gaseous fuels prep. package.

Order Availability
Ford Ship Through.

Warranty
5 year / 100,000 miles
Para-Transit

Operating 112 units in Delaware.

146 propane-powered Ford E-450 shuttles in service.

138 units deployed fleet in conjunction with school district.
San Diego Metropolitan Transit System

Industry: Paratransit
Location: San Diego, CA
Vehicles: 101 Ford F-550 Buses

By The Numbers:
- Reduce emissions by **2 million pounds** per year.
- Will save **$5.8 million** over lifecycle of vehicles.
- Reduce carbon intensity by **71%**.
THANK YOU

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