

One of the Best Alternative Fuels is in our
own Backyard:

PROPANE



What is Propane?



- ❑ Propane is a liquefied petroleum gas that comes out of both oil and gas wells.
- ❑ It is sometimes referred to as: LP-gas or LPG.
- ❑ Propane is non-toxic and does not contaminate ground water or soil.

Propane: It's CLEAN-BURNING

- ❑ Propane Vehicles are EPA certified and produce significantly **LESS** CO₂, NO_x, hydrocarbons and GHG emissions than gasoline or diesel engines.



Going the Distance

Highest Volumetric Efficiency of all alternative fuels. The vehicle range comparable to gasoline is better than any other alternative fuel.



Propane vehicles compare favorably to gasoline counterparts on power, acceleration and cruising speeds.

Propane Performance

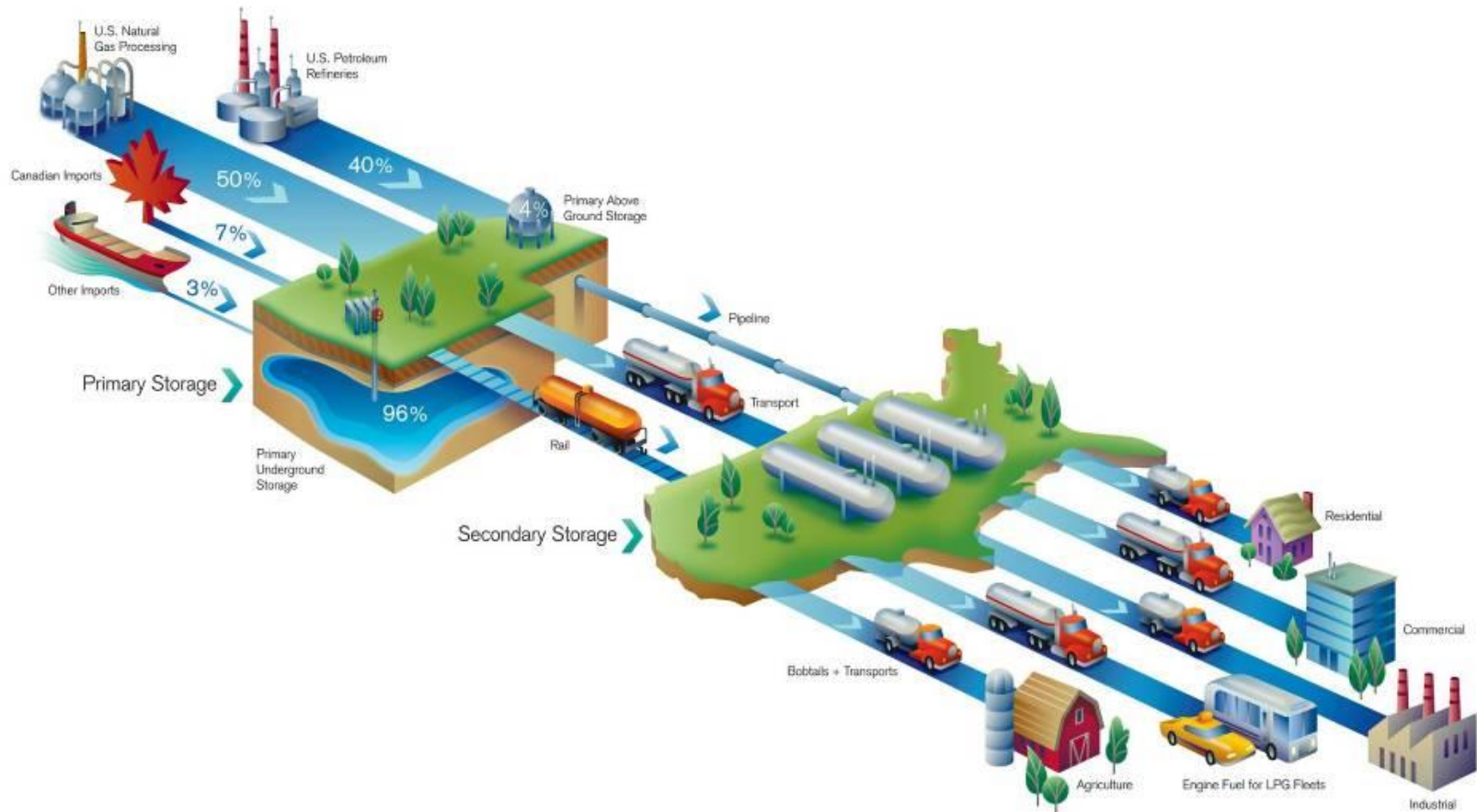
- “There has been no noticeable decrease in power or performance with our propane vehicles. In addition, having the convenience of on-site fueling has resulted in increased officer efficiency.” – Constable Rick Coffman – Precinct Two



Departments Using Propane:

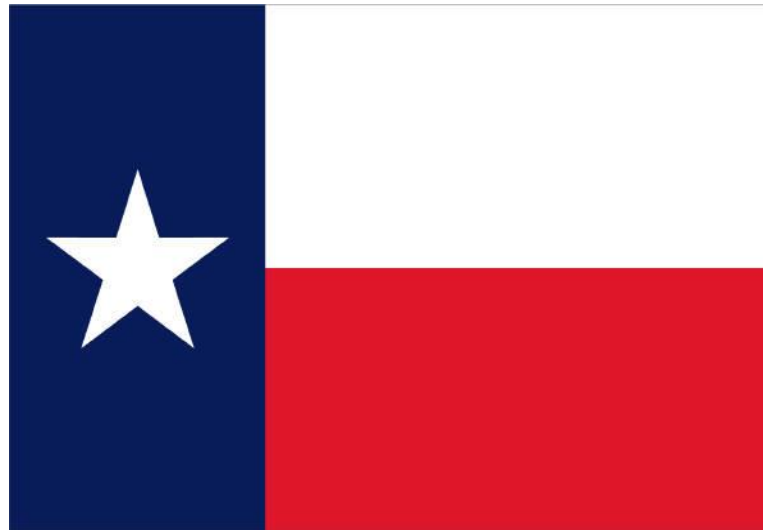
- Agri-Life Extension – 1
- Constable Precinct One – 4
- Constable Precinct Two – 3
- Constable Precinct Three – 1
- Constable Precinct Four – 1
- EMS – 1
- Facilities Maintenance – 1
- Parks & Recreation – 2 ATV Utility Trucks
- Road & Bridge – 10
- TOTAL Propane Vehicles as of 12/5/11 - 24

90% Produced in the U.S.A.



Helping our State and Local Economy

- **100%** of Williamson County's propane comes from the State of Texas.



Less Volatility/Easier Budgeting

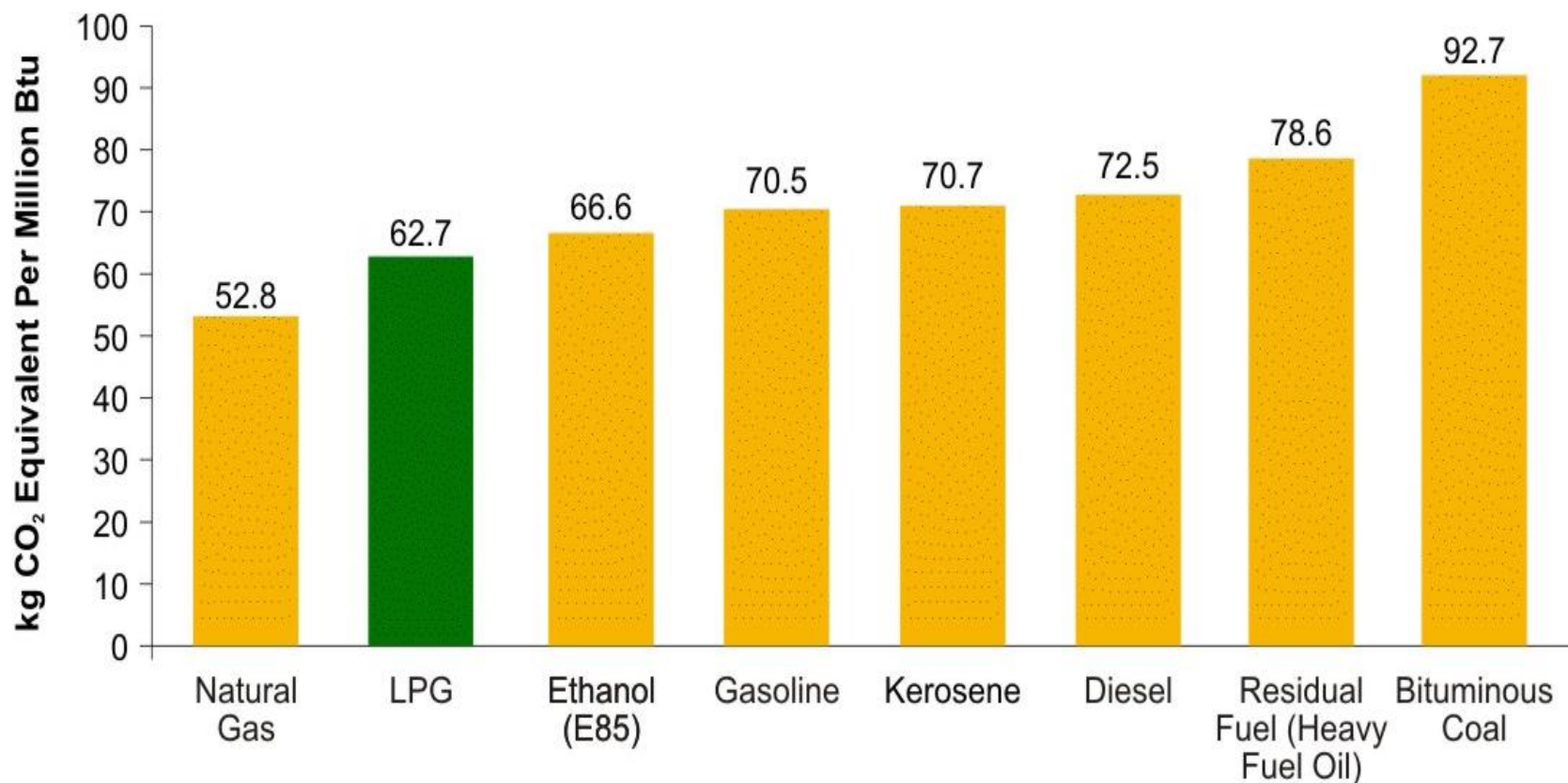
- Gasoline
 - High - \$3.42/gallon
 - Low - \$2.87/gallon
 - Average - \$3.15/gal.
 - 55 cents/gallon
 - 19% fluctuation
- Propane
 - High - \$1.86/gallon
 - Low - \$1.76/gallon
 - Average - \$1.82/gal.
 - 10 cents/gallon
 - 6% fluctuation

How will Propane Benefit Williamson County?



- Reduces Dependence on Foreign Oil
- Reduces Emissions
- Helps County Stay in Attainment
- Reduces Fuel Costs
- Reduces Maintenance Costs
- Saves Taxpayers Money

Carbon Dioxide Emissions



Clean Air: Propane vs. Gasoline

- ❑ 12% less carbon dioxide
- ❑ 20% less nitrous oxide
- ❑ Up to 60% less Carbon Monoxide



According to World Liquid Propane Gas Associations. January 2003, and California Energy Commission, January 2003.

Average Fuel Cost:

\$3.15 Gasoline VS. \$1.32 Propane/Gallon

- Current County vehicles converted to propane are expected to use 41,470 gallons during 12 month period.
- Fleet Services anticipates first annual fuel savings of **\$64,014**



Propane receives a 50 cent/gallon federal tax credit for alternative fuel usage lowering the average price from \$1.82/gallon to \$1.32/gallon.

Gasoline vs. Propane

- GASOLINE
 - 14,000 miles annually
 - 13 mpg or 1,077 gallons
 - 1,077 gal. x \$3.15 = \$3,392
 - 3 oil changes = \$105
 - Vehicle Life – 8 years or 112,000 miles
- PROPANE
 - 14,000 miles annually
 - 11.5 mpg or 1,217 gallons
 - 1,217 gal. x \$1.32 = \$1,606
 - 2 oil changes = \$70
 - Vehicle Life – 10 to 11 years or 147,000 to 154,000 miles

Reduced Maintenance Costs

- Oil Changes from 5,000 miles to approximately 7,500 miles/change.
- Number of oil changes reduced from 81 to 54 for 22 current propane vehicles.



- \$945 Annually in Savings.



County Fueling Sites

- Georgetown
- Round Rock
- Cedar Park
- Florence
- Taylor
- Granger

