







Why is propane essential for Williamson County?

- Reduced emissions near non-attainment
 - Clean Air Act
- Saves taxpayer dollars:
 - Reduced fleet fuel cost
 - State and federal funds to reduce vehicle acquisition costs
 - Reduced vehicle maintenance costs





What is Propane?

 Propane is a hydrocarbon (C3H8) and is sometimes referred to as liquefied petroleum gas, LP-gas or LPG.

 Propane is non-toxic and does not contaminate ground water or soil.





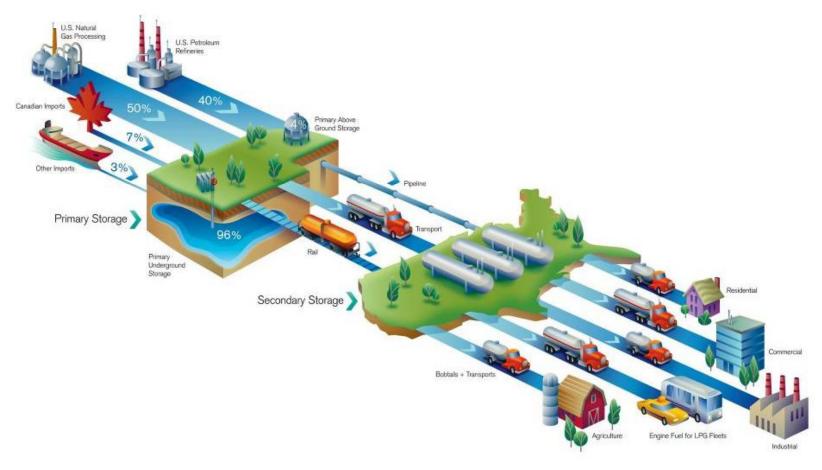
Why Propane? Because...

- It's domestically produced
- It's environmentally-friendly
- It's readily available
- Now more than ever there are more vehicle and mower choices
- It's easy on a county's pocket book





90 % Produced in US







Do You Know What The Principal Green House Gases (EPA) Are?

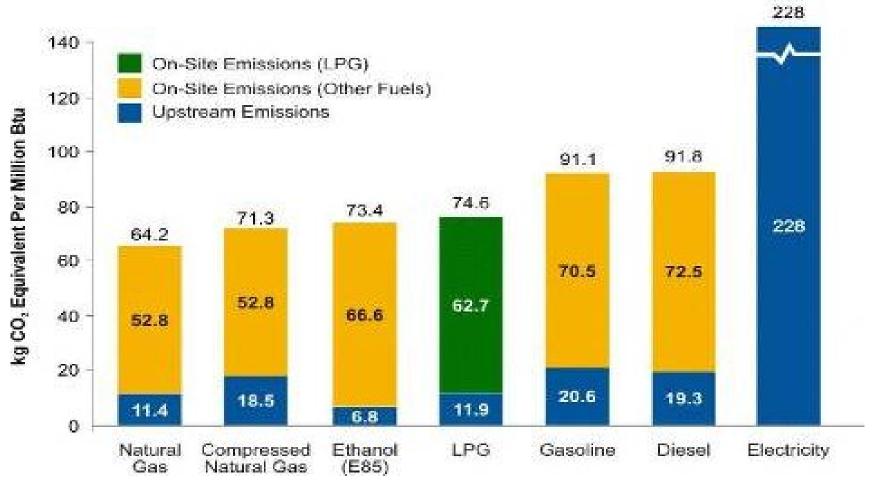
They are:

- Carbon Dioxide CO₂
- Methane (principal component of natural gas)
- Nitrogen Oxide (NOx)





 Cleaner than gasoline/diesel as approved by the Clean Air Act of 1990 and National Policy Act of 1992 and 2005

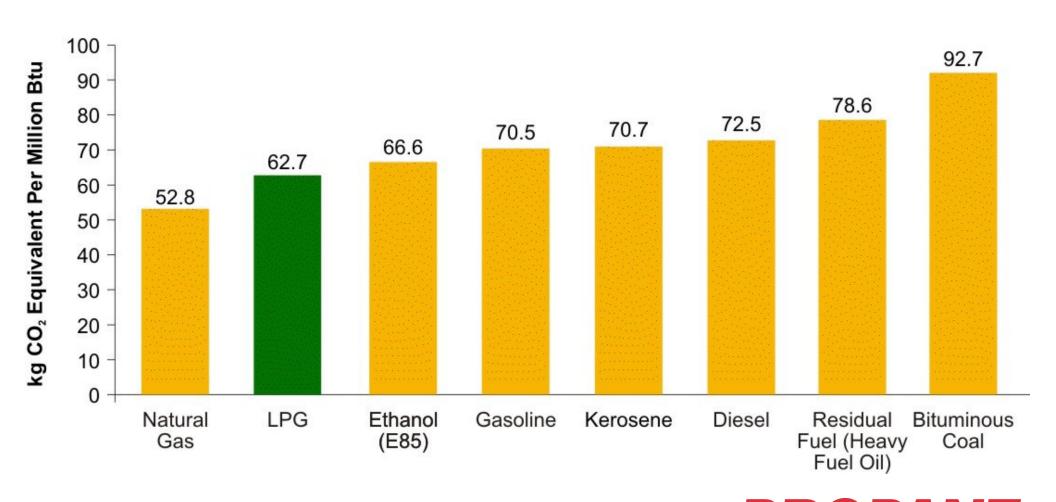


Sources: DOE 1994, EPA 2007, GREET 2007 On-site emissions estimates based on chemical composition of the fuel with 99 percent combustion. Actual life-cycle emissions vary by application.





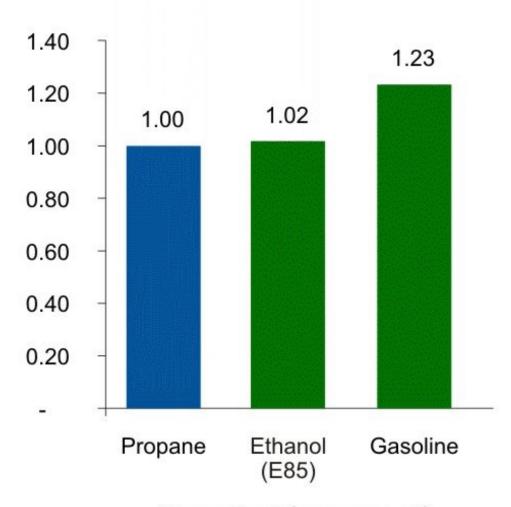
On Site Carbon Emissions







Light-duty trucks emissions



Normalized (propane = 1)





Propane: It's CLEAN-BURNING

 Propane vehicles are EPA certified and produce significantly LESS CO₂, NOx, hydrocarbons and GHG emissions than gasoline or diesel engines. Additionally, propane vehicles produce LESS CO₂ than fuel oil and ethanol.

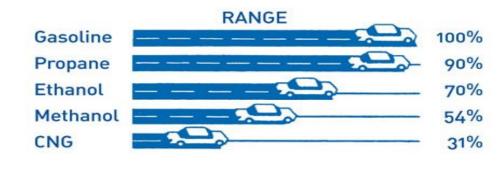






Going the Distance

 Propane gives you the highest volumetric efficiency of all alternative fuels. That means a vehicle range comparable to gasoline and better than any of the other alternatives.

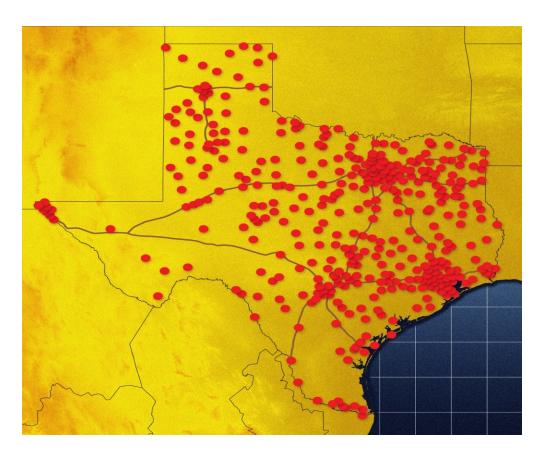


 Propane fueled vehicles compare favorably with their gasoline counterparts on power, acceleration, and cruising speeds.





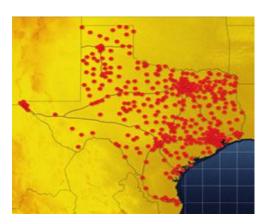
Propane: It's Readily Available Over 850 stations statewide

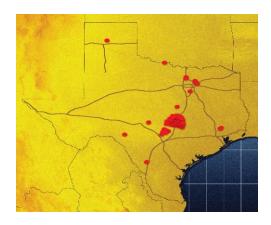






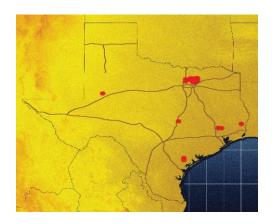
Propane





Bio-Diesel

CNG/LNG





Ethanol





Multiple platforms available for county vehicles





Chevy Impala

Chevy Silverado





GMC Topkick Series

GMC Topkick Series
 4500-8500 with liquid propane injection (LPI) system designed by CleanFuel USA. Retrofit with any body.

System can be put on any 8.1 L My 2005-2009.







Roush Performance

Liquid Propane Injection





F-250 & F-350

E-150, E-250 & E-350





Propane: It's Economical

- Propane can save you 30-50% over diesel or gasoline.
- And if you are a registered alternative fueler, you could qualify for a \$.50/gallon tax credit from the Federal government even if you are TAX EXEMPT.







County Savings Case Study

- CARTS is the second-largest rural transit fleet in State of Texas.
- Service area size:7,500 sq. mi
- Transports 350,000 passengers annually
- Annual transit bus mileage—
 1.6 million miles
- Annual usage of propane about 150,000 gallons
- 33 propane transit buses
- Annual savings: \$150,000







Denton ISD

77 school buses

- Propane Tax Credit Program 2006-2009
 - DISD qualifies for a 50¢ per gallon tax credit for each gallon of propane purchased from October 1, 2006 to September 30, 2009.
 - DISD usage of LPG/Propane per year = 298,844 gallons
 - 298,844 gal. x 50¢ per gal. = \$149,422.00 per yr.
 - Estimated Propane Credit Total \$600,000.00+ (2006-09)
 - RCC anticipates the program may carry over to 2012-13
 - Total estimated return to DISD = \$1,200,000+





Dallas ISD and Northside ISD

- Dallas ISD 545 Propane Buses
 - \$400,000 per year rebated from IRS on the
 .50 cpg fuel credit
- Northside ISD 351 Propane Buses
 - \$226,079 rebated from IRS for fuel in 2007





Grants available to replace medium duty trucks

- For dedicated (mono-fuel) medium duty vehicles and school buses through the Alternative Fuels Research & Education Division (AFRED) of the Railroad Commission of Texas (RRC).
- Average grant is between \$23K to \$25K





RRC Grants: Eligible Counties

Bastrop • Bexar • Brazoria •

Caldwell • Chambers • Collin •

Comal • Dallas • Denton • Ellis •

Ft. Bend • Galveston • Gregg •

Guadalupe • Harris • Hardin •

Harrison • Hays • Jefferson •

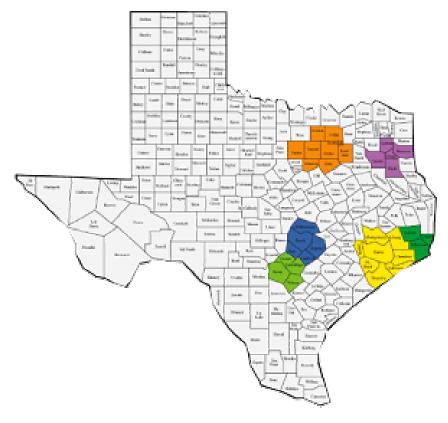
Johnson • Kaufman • Liberty •

Montgomery • Orange • Parker •

Rockwall • Rusk • Smith •

Tarrant • Travis • Upshur • Waller

• Williamson • Wilson







Propane Lawn Mowers

- Propane Lawn Mowers are environmental-friendly alternative to gasoline and diesel mowers.
- Many of the Propane Lawn Mower models today meet the proposed 2012 EPA air standards. Emitting almost significantly fewer hydrocarbons.
- Reduced opportunity for fuel theft.
- This allows counties to mow on OZONE ACTION DAYS.







Propane Lawn Mowers



You are just not just saving fuel, your saving money from those lost gallons and typically for fleet lawn mower customers, propane may be 30-50 % less than gasoline and diesel through propane fuel contracts.





Mower Grants Available through Clean Cities



Propane Lawn Mower
Grants are available up to
\$2,500 in non-attainment
and near non-attainment
areas through a state
agency's local Clean
Cities Coalition with
funding from the Propane
Education & Research
Council (PERC).





Examples of local fleets using propane.

- CARTS
- TxDot
- Travis County
- City of Austin
- Railroad Commission of Texas





Contact

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