



— THE INDUSTRY —

# LEADER

In Propane Autogas Fleets & Fueling Infrastructure



ANNIVERSARY



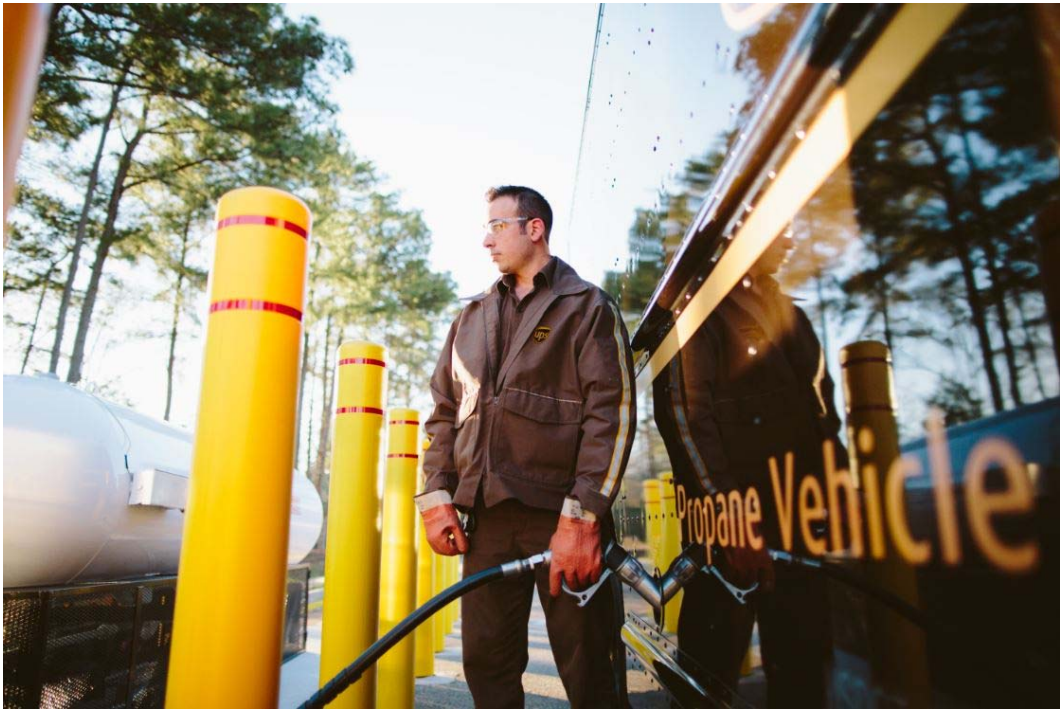
# Who we are, what we do...



State of the art OEM propane autogas vehicle technology.



Dedicated customer service team and technical call center.



Full range of propane autogas dispensers.



Fuel supplier Relationships.



# Why propane autogas?

- Economical
- Clean
- Domestic & Abundant
- Performance
- Safety



# Infrastructure Solutions

- ✓ Turnkey Fueling Packages
- ✓ Options for all fleet sizes and needs
- ✓ Basic fueling to full retail design
- ✓ Fuel management programs available



# CFUSA Dispenser Line

An answer for every fleet need...



P2100



P2200



P6000



P7000



Gilbarco Encore



# P2100

## Computer Features

- Easy to read back-lit LCD displays
- 32 key alpha-numeric keypad
- 5-level secured access programming
- LCD sales display with LED backlight
- 110 vac / 60Hz OR 220vac / 50 Hz power supply
- Communicates to most fuel management systems
- Integral current loop 2-wire communication protocol

## Metering & Hydraulics

- Endress+Hauser Mass Flow meter
- Optional positive displacement meters: Liquatech, Red Seal, Liquid Controls
- Explosion proof electrical connections in conduit
- Explosion proof junction box for safe connections
- Isolation valves for easy maintenance
- Liquid inlet & vapor outlet gauges for diagnostics
- Vibration resistant UL listed electrical connections



# P2200

## Electronics

- Display with total sale, price per gallon and total gallons dispensed
- Unlimited cloud based price levels and multijurisdiction tax options
- Shift log in & log out with passcode for operator
- Dispenser lock down with pass code, no need for pad locks
- Integrated pump control
- Fuel management system integration
- Current loop 2 wire protocol communication
- Optional electronic automatic temperature compensation
- Electronic calibration
- Additional hose with a cylinder filling nozzle for simple operation

## Metering & Hydraulics

- Endress+Hauser Mass Flow meter
- Optional positive displacement meters: Liquatech, Red Seal, Liquid Controls
- Explosion proof electrical connections in conduit
- Explosion proof junction box for safe connections
- Isolation valves for easy maintenance
- Liquid inlet & vapor outlet gauges for diagnostics
- Vibration resistant UL listed electrical connections



# P6000

## Computer Features

- Easy to read back-lit LCD displays
- 32 Key alpha-numeric keypad
- 5-level secured access programming
- LCD sales display with LED backlight
- 110 vac / 60Hz OR 220vac / 50Hz power supply
- Communicates to most fuel management systems
- Integral current loop 2-wire communication protocol

## Metering & Hydraulics

- Endress+Hauser Mass Flow meter
- Optional positive displacement meters: Liquatech, Red Seal, Liquid Controls
- Explosion proof electrical connections in conduit
- Explosion proof junction box for safe connections
- Isolation valves for easy maintenance
- Liquid inlet & vapor outlet gauges for diagnostics
- Vibration resistant UL listed electrical connections



## PRO6100 Series, Low frame Commercial PRO6200 Two Sided, Two Hose

- Powder-coated cabinet or stainless steel
- Computerized volume/price calculator
- Preset for money & volume
- Self diagnostics for trouble shooting



# P7000

## Computer Features

- Easy to read back-lit LCD displays
- 32 Key alpha-numeric keypad
- 5-level secured access programming
- LCD sales display with LED backlight
- 110 vac / 60Hz OR 220vac / 50Hz power supply
- Communicates to most fuel management systems
- Integral current loop 2-wire communication protocol

## Metering & Hydraulics

- Endress+Hauser Mass Flow meter
- Optional positive displacement meters: Liquatech, Red Seal, Liquid Controls
- Explosion proof electrical connections in conduit
- Explosion proof junction box for safe connections
- Isolation valves for easy maintenance
- Liquid inlet & vapor outlet gauges for diagnostics
- Vibration resistant UL listed electrical connections



**PRO7100** Hi Frame Retail Single sided, single hose

**PRO7200** Two Sided, Two Hose

- Powder-coated cabinet or optional stainless steel
- Computerized volume/price calculator
- Preset for money & volume
- Self diagnostics for trouble shooting

# Gilbarco encore

## Standard Features

- Galvanized Meter support bracket with reinforcement
- Explosion proof conduit for all high voltage wires
- Piloted solenoids for flow control
- Intrinsically safe circuits for pulser and ATC probes
- Liquid inlet & vapor outlet diagnostic gauges
- Bleeder & isolation valves for maintenance
- Air-Gap separation with conduit and vapor seals
- Standard LC MA4 meter with SCAMP linearization
- Available with standard and Gilbarco MOC graphics
- Available with custom vinyl wrap
- Retains original Gilbarco computer and features
- Compatible with standard Gilbarco options
- Elaflex Gasguard GG20 nozzle standard
- Automatic Temperature Compensation
- UL Listed
- Worldwide service for Gilbarco electronics



Single Sided, Single Hose  
Dual Sided, Dual Hose



# Skid package/Stations

- Standard 1000 or 2000 gal horizontal tank, with three bottom openings, powder coated with side mounted valving for easy fill, gauge read and access
- Pneumatic internal valves in ALL bottom outlets, liquid feed to pump, bypass liquid return, vapor return to tank High differential pump
- All piping pre assembled with flexible isolation in & out of pump with protective coating and paint
- Ball valves for easy maintenance at all service points.
- Strainer conveniently located for easy access
- Inlet & outlet gauges for pump diagnostics
- Pre wired to large explosion proof junction box for accessories
- Designed to accommodate all CFUSA dispensers  
Designed to accommodate the optimal Tripod Safety System

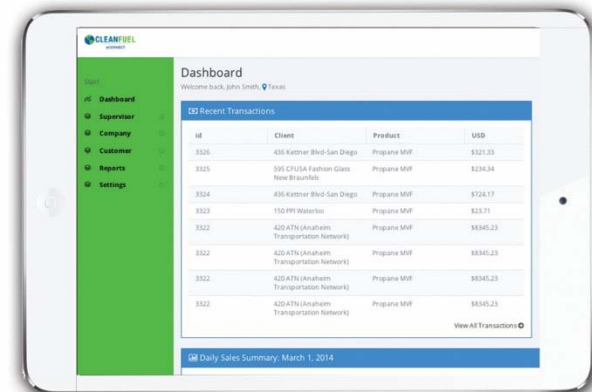


*\* Vertical packages also available*

# CleanFUEL eCONNECT

## Hardware

- HMI (HumanMachineInterface) Calculator/ Controller
- Five RS-232/422/485 Communication Ports
- USB Port to download the unit's configuration from a PC or for data transfers to a PC
- COMPACTFLASH® socket to increase memory capacity up to 64 MB (mandatory to program and data transferring)
- Backlit 3.2" LCD screen
- 32 button keypad includes user defined keys, navigational keys, numeric keys, keys for on-screen menus



## Fuel Network Management

- Full Remote access and diagnostics when connected to internet. Communicates with smart devices and computers.
- Types of Access control
  - Access Card with optional card reader
  - PIN # entry on keypad
  - Optional Dallas iButton
  - Optional RFID System
- Fuel Storage Tank Inventory Monitoring



# Municipal Success Stories, Williamson County

"We are pleased to be able to convert part of our fleet to propane, which is domestically produced in Texas and is less expensive than gasoline or diesel fuels," says Williamson County Commissioner Cynthia Long. "In addition to being more economical, propane is cleaner burning which makes it better for engine maintenance and emissions."

**\$73,000**  
SAVED ON FUEL PER YEAR

## FLEET BREAKDOWN



**8** Dedicated autogas pickups from Roush



**28** Bi-fuel autogas conversions

For more information, email [info@fuelingtexas.com](mailto:info@fuelingtexas.com) or Williamson County fleet manager Randy Rogers at [rrogers@wilco.com](mailto:rrogers@wilco.com).

**3**

years using propane autogas to fuel vehicles for nine county departments including law enforcement and first responders



**6** autogas fueling stations



**36,800** gallons of autogas used per year to reduce harmful emissions



**2,000** gallons of on-site storage per station



PERCENT SAVINGS ON FUEL COSTS



**CLEANFUEL**  
USA

# Steps to implementing a successful autogas program

---

- **Asses your needs**
  - Fleet: size; annual mileage; make, model and year of fleet; day to day travel routine
  - Footprint: available land for refueling infrastructure; site specifications and jurisdiction requirements (your local fire marshal or infrastructure provider can assist with this)
- **Asses vehicle, station and fuel providers**
  - Who provides CERTIFIED propane autogas conversions for current vehicles?
  - Who provides CERTIFIED new propane autogas OEM vehicles that you plan to purchase?
  - Who provides the station set up appropriate for your fleet?
  - Who provides competitive pricing on propane autogas in your area?
  - Who will service both your vehicles and infrastructure?
- **Asses grant availability**
  - Are there any national grants or incentives available?
  - Are there any state grants or incentives available?
  - How, when and where do you apply? Who can help with this?



# Steps to implementing a successful autogas program

---

- Do your homework
  - Clean Cities Coordinators in your area can help you find reputable companies to work with, grant availability, etc.
  - ASK. Find fleets who have made the transition and ask questions.
  - Become familiar with propane autogas. Understanding the benefits of utilizing the fuel can help you make qualified decisions.



# Contact Us

---

Curtis Donaldson, Founder and President

[curtis.donaldson@cleanfuelusa.com](mailto:curtis.donaldson@cleanfuelusa.com)

512.789.8527

Crystelle Markley, Marketing Director

[crystelle.markley@cleanfuelusa.com](mailto:crystelle.markley@cleanfuelusa.com)

512.864.0300

[www.cleanfuelusa.com](http://www.cleanfuelusa.com)







# Let's Talk Incentives



PROANE COUNCIL OF TEXAS

# Taxes & Credits

- No state tax on propane
- Nearly 37 cents per gallon federal tax credit
- School districts are eligible
- **Expires:** December 31, 2016.



# Taxes & Credits

For business use property, the credit is generally the smaller of **30%** of the property's cost or **\$30,000**.

**Expires:** December 31, 2016.



# Alternative Fueling Facilities Program



- **Covers portion of cost to construct or reconstruct propane refueling station**
- **Eligible Counties:** Brazoria, Chambers, Ft. Bend, Galveston, Liberty, Montgomery & Waller
- **Upcoming grant workshop: HOUSTON:** September 14, 2016 @ HGAC
- **Deadline:** Tuesday, November 8, 2016
- **Questions?** 1-800-919-TERP (8377)

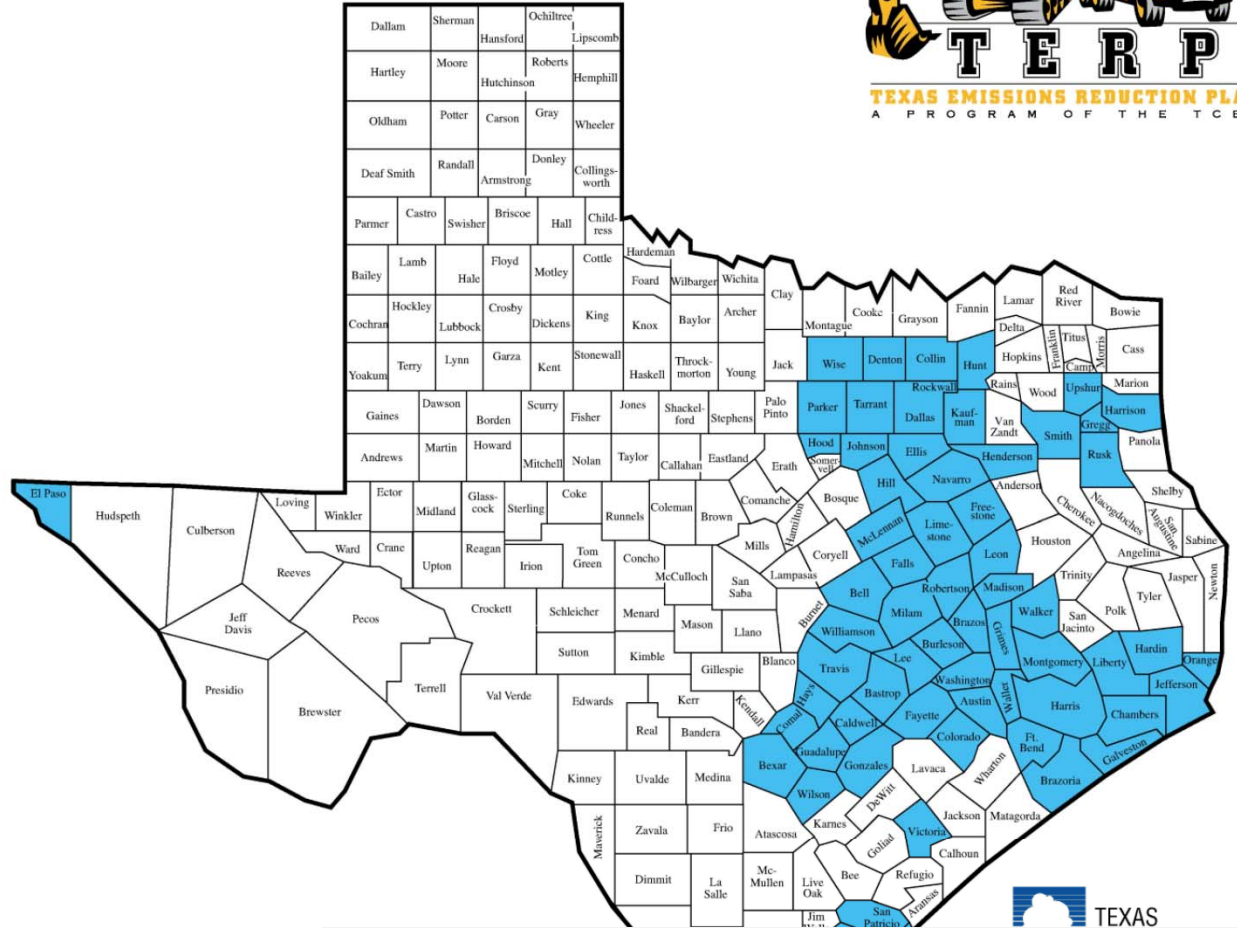


# Texas Clean Fleet Program (TCFP)

## Eligible Counties



- |                  |                  |                     |
|------------------|------------------|---------------------|
| <b>Austin</b>    | <b>Gonzales</b>  | <b>Milam</b>        |
| <b>Bastrop</b>   | <b>Gregg</b>     | <b>Montgomery</b>   |
| <b>Bell</b>      | <b>Grimes</b>    | <b>Navarro</b>      |
| <b>Bexar</b>     | <b>Guadalupe</b> | <b>Nueces</b>       |
| <b>Brazoria</b>  | <b>Hardin</b>    | <b>Orange</b>       |
| <b>Brazos</b>    | <b>Harris</b>    | <b>Parker</b>       |
| <b>Burleson</b>  | <b>Harrison</b>  | <b>Robertson</b>    |
| <b>Caldwell</b>  | <b>Hays</b>      | <b>Rockwall</b>     |
| <b>Chambers</b>  | <b>Henderson</b> | <b>Rusk</b>         |
| <b>Collin</b>    | <b>Hill</b>      | <b>San Patricio</b> |
| <b>Colorado</b>  | <b>Hood</b>      | <b>Smith</b>        |
| <b>Comal</b>     | <b>Hunt</b>      | <b>Tarrant</b>      |
| <b>Dallas</b>    | <b>Jefferson</b> | <b>Travis</b>       |
| <b>Denton</b>    | <b>Johnson</b>   | <b>Upshur</b>       |
| <b>El Paso</b>   | <b>Kaufman</b>   | <b>Victoria</b>     |
| <b>Ellis</b>     | <b>Lee</b>       | <b>Walker</b>       |
| <b>Falls</b>     | <b>Leon</b>      | <b>Waller</b>       |
| <b>Fayette</b>   | <b>Liberty</b>   | <b>Washington</b>   |
| <b>Fort Bend</b> | <b>Limestone</b> | <b>Williamson</b>   |
| <b>Freestone</b> | <b>Madison</b>   | <b>Wilson</b>       |
| <b>Galveston</b> | <b>McLennan</b>  | <b>Wise</b>         |



 TEXAS

ON  
AL

# Texas Clean Fleet Program



- **For fleets with 75 or more vehicles, that will be replacing at least 25 vehicles with AFV, e.g. propane. Must reduce NOx by 25%.**
- ***Competitive***
- **Deadline: October 18, 2016**
- **Upcoming grant workshop: HOUSTON: September 22, 2016**
- **Questions? 1-800-919-TERP (8377)**



# School Bus Grants

- **TCEQ Supplemental Environmental Program  
TEXAS PTA**
- **50% of the cost of a new propane school bus**
- **Statewide**
- **Funding available now**
- **Questions? Sophie Derrington**  
**512-320-9825 ★ [sderrington@txpta.org](mailto:sderrington@txpta.org)**



# School Bus Grants

- **TCEQ Supplemental Environmental Program (SEP) – Railroad Commission**
- **Districts must be new to propane**
- **Covers incremental cost+**
- **Patrick Sowell 512-475-2954**  
**[Patrick.Sowell@RRC.State.TX.Us](mailto:Patrick.Sowell@RRC.State.TX.Us)**





# Private Fleet Grant

- **Incentive through propane council of texas**
- **Up to \$7,500 per propane vehicle or conversion to propane**
- **Up to \$30,000 cap per fleet**
- **If converted, must have less 40,000 miles**
- **Available for private & non-profit fleets**



# Mower Incentive

- **Incentive through propane council of texas**
- **\$1,000 PER MOWER**
- **Up to \$7,000 cap per ENTITY**
- **If converted, must have less 300 HOURS**



# Mower Incentive

- **Incentive through propane council of texas**
- **\$1,000 per mower**
- **Up to \$7,000 cap per entity**
- **If converted, must have less 300 hours**



# Other Funding

- **NEW FUNDING OPPORTUNITIES – GRANTS AND INCENTIVES BEING ANNOUNCED ALL THE TIME**

**SUBSCRIBE TO**  
**[WWW.FUELINGTEXAS.COM](http://WWW.FUELINGTEXAS.COM)**  
**NOTIFICATIONS**



# CONTACT US



**Jackie Mason**  
**800.325.7427**

[jmason@txpropane.com](mailto:jmason@txpropane.com)  
[www.fuelingtexas.com](http://www.fuelingtexas.com)

# PROPANE IN ACTION: BENCHMARK LANDSCAPES



Austin, Houston, New Braunfels, San Antonio and Corpus Christi

"It's been good for us. It's been a savings for us in multiple different ways."

Owner, Casey Vickrey, tells the *San Antonio Business Journal*

# \$ 16,000

SAVINGS PER MONTH USING PROPANE

# 100

PROPANE MOWERS



# 6

PROPANE VEHICLES



# 6

years using propane

# 4



on-site refueling stations

## PROPANE AUTOGAS

Learn more at  
[WWW.FUELINGTEXAS.COM](http://WWW.FUELINGTEXAS.COM)

SAVE MONEY DRIVE CLEAN BUY TEXAN

# PROPANE AUTOGAS

WWW.FUELINGTEXAS.COM

## AUTOGAS IN ACTION: SUPER SHUTTLE



# 50-60%

FUEL COST SAVINGS

### Why Super Shuttle chooses propane autogas:

- Dramatic reductions in fuel cost for franchise owner/operators
- Environmental benefits of reduced emissions as compared to gasoline
- National security benefits of reduced dependency on foreign oil



An average Super Shuttle driver uses 10,000 gallons of propane annually

# 4

YEARS  
USING PROPANE  
AUTOGAS  
NATIONALLY

# 18

MONTHS  
USING PROPANE  
AUTOGAS AT SUPER  
SHUTTLE HOUSTON

# 5

SUPER SHUTTLE FLEETS  
USE PROPANE NATIONWIDE:  
PHOENIX, HOUSTON, DENVER, FORT  
COLLINS AND ORLANDO

ROUGH CLEANTECH FORD E-350  
VANS USED BY SUPER SHUTTLE:



# 160

NATIONWIDE

# 30

IN HOUSTON

For more information, email [info@fuelingtexas.com](mailto:info@fuelingtexas.com) or visit [www.FuelingTexas.com](http://www.FuelingTexas.com).

SAVE MONEY • DRIVE CLEAN • BUY TEXAN



# Houston/Galveston Area Clean Cities

September 9, 2016

*Tony Dale*

*Propane Education & Research Council*

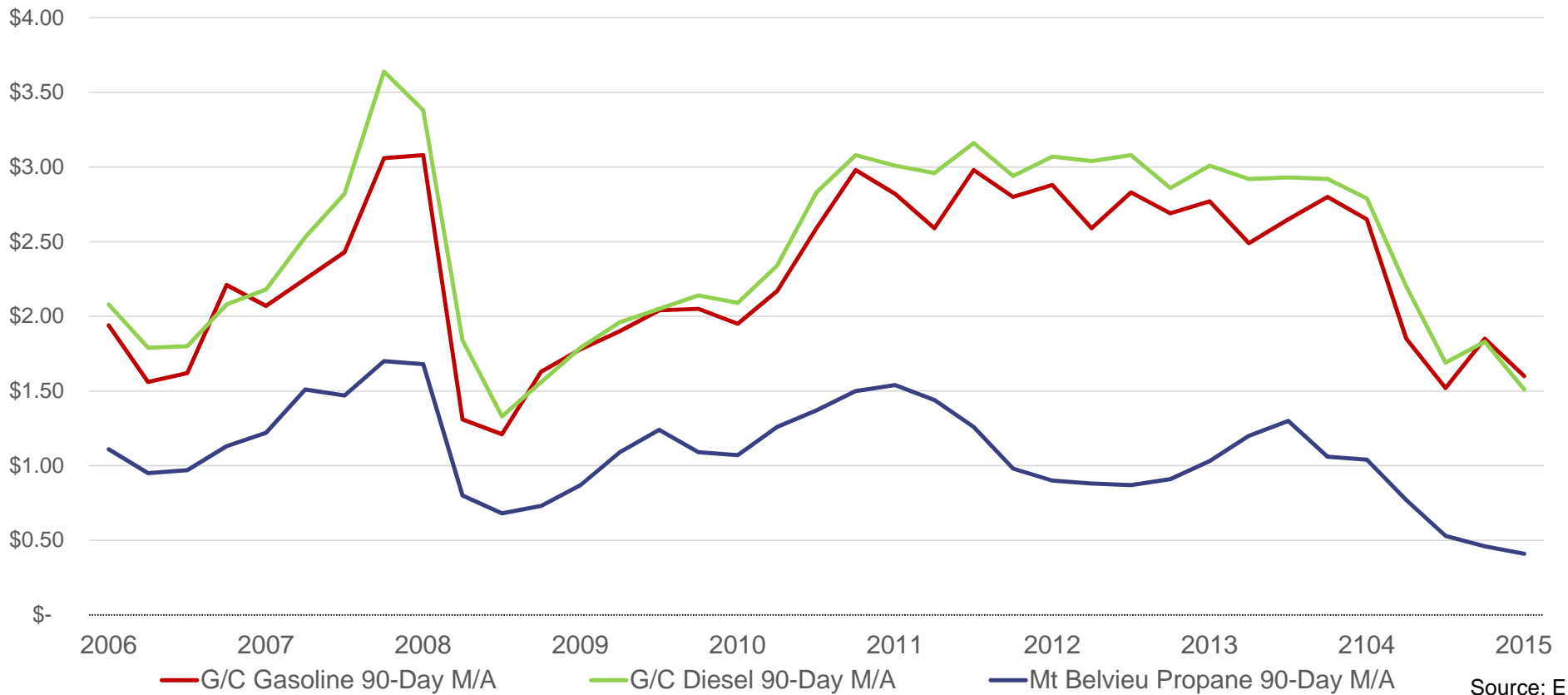


# WHY FLEETS CHOOSE PROPANE AUTOGAS

- ① Total Cost-of-Ownership
- ② Emissions
- ③ Noise
- ④ Reduced Maintenance
- ⑤ Corporate Image
- ⑥ Employee Morale/Driver Retention



# US ENERGY PRICE COMPARISON 2006 – 2015



60% LESS

CARBON MONOXIDE

40% FEWER

SMOG-PRODUCING  
HYDROCARBONS WHILE FUELING

20% LESS

NITROGEN OXIDE

12% LESS

CARBON DIOXIDE

# Alternative Fuels Data Center

Search the AFDC

SEARCH

FUELS & VEHICLES

CONSERVE FUEL

LOCATE STATIONS

LAWS & INCENTIVES

Maps & Data

Case Studies

Publications

Tools

About

Home

EERE » AFDC » Locate Stations

Printable Version

Share

## Alternative Fueling Station Locator

Find alternative fueling stations near an address or ZIP code or along a route in the United States. Enter a state to see a station count.

**Find Stations** | Plan a Route

Q address, ZIP, or state... **Go**

Liquefied Petroleum Gas (Pr... **▼**

[more search options](#)

**1,239**  
propane stations  
in the United States  
Excluding private stations

*Location details are subject to change. We recommend calling the stations to verify location, hours of operation, and access.*

**ABOUT THE DATA**

Embed | Submit New Station

Map data ©2016 Google, INEGI [Terms of Use](#)

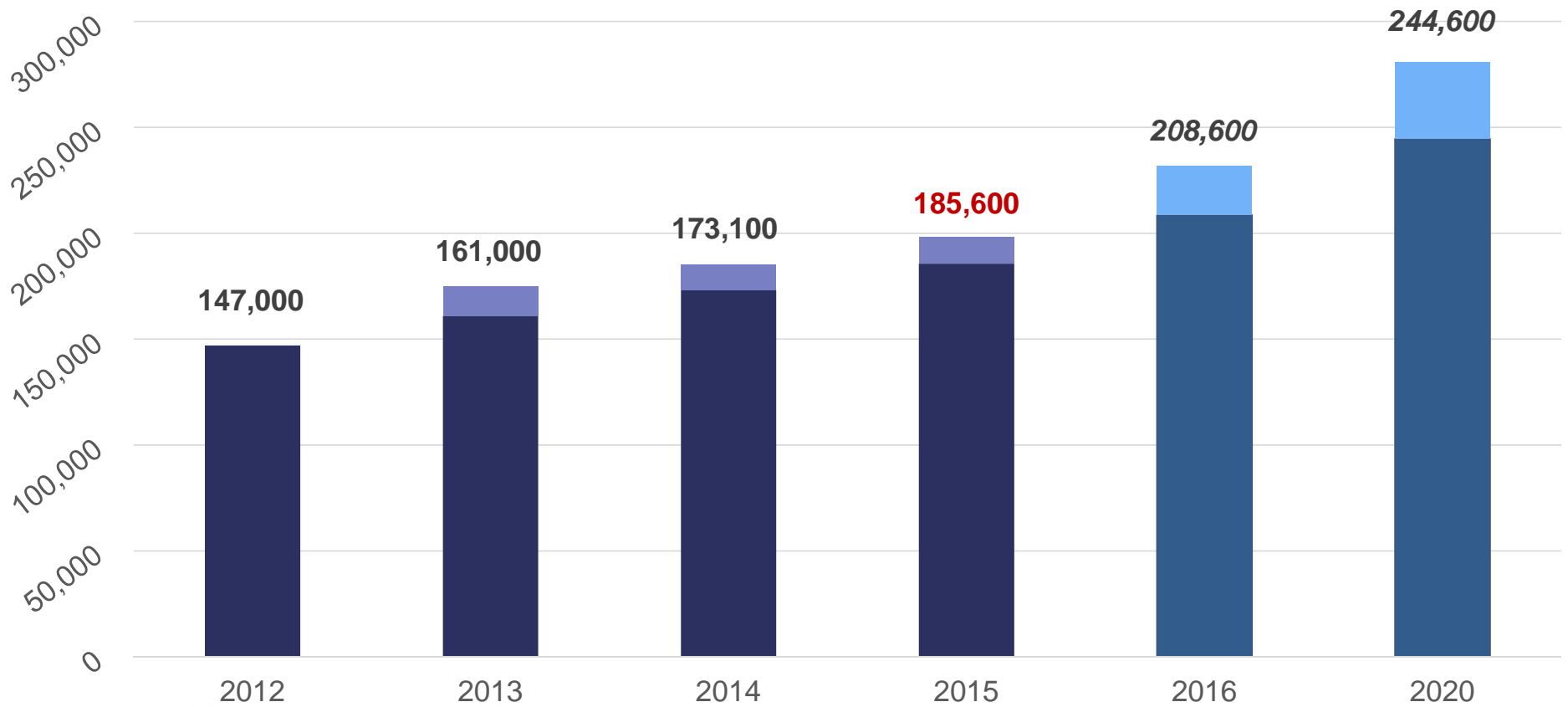


## Propane Autogas = Scalable, Affordable Infrastructure Options

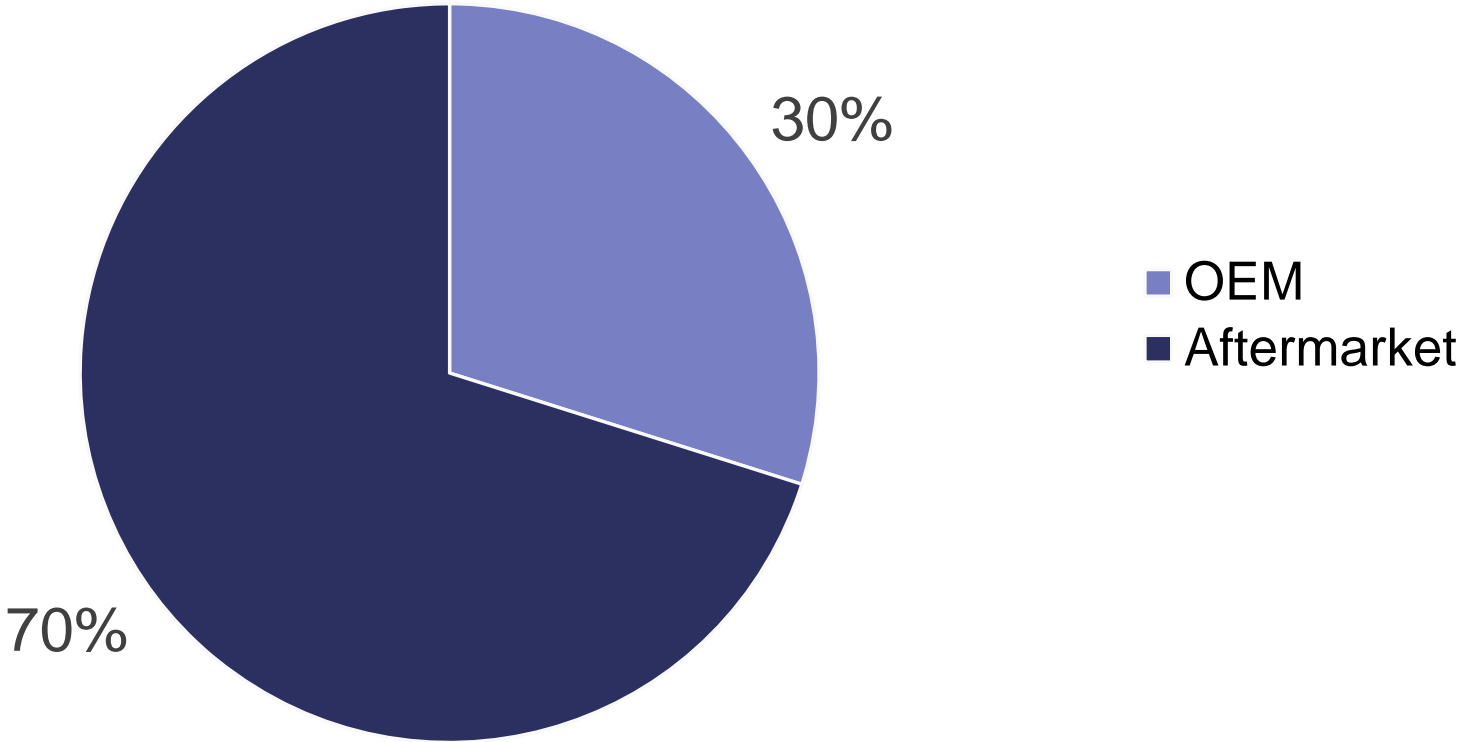
On-site propane autogas stations are the most affordable to install of any conventional or alternative fuel.

A local propane provider can help select the right option for your fleet.

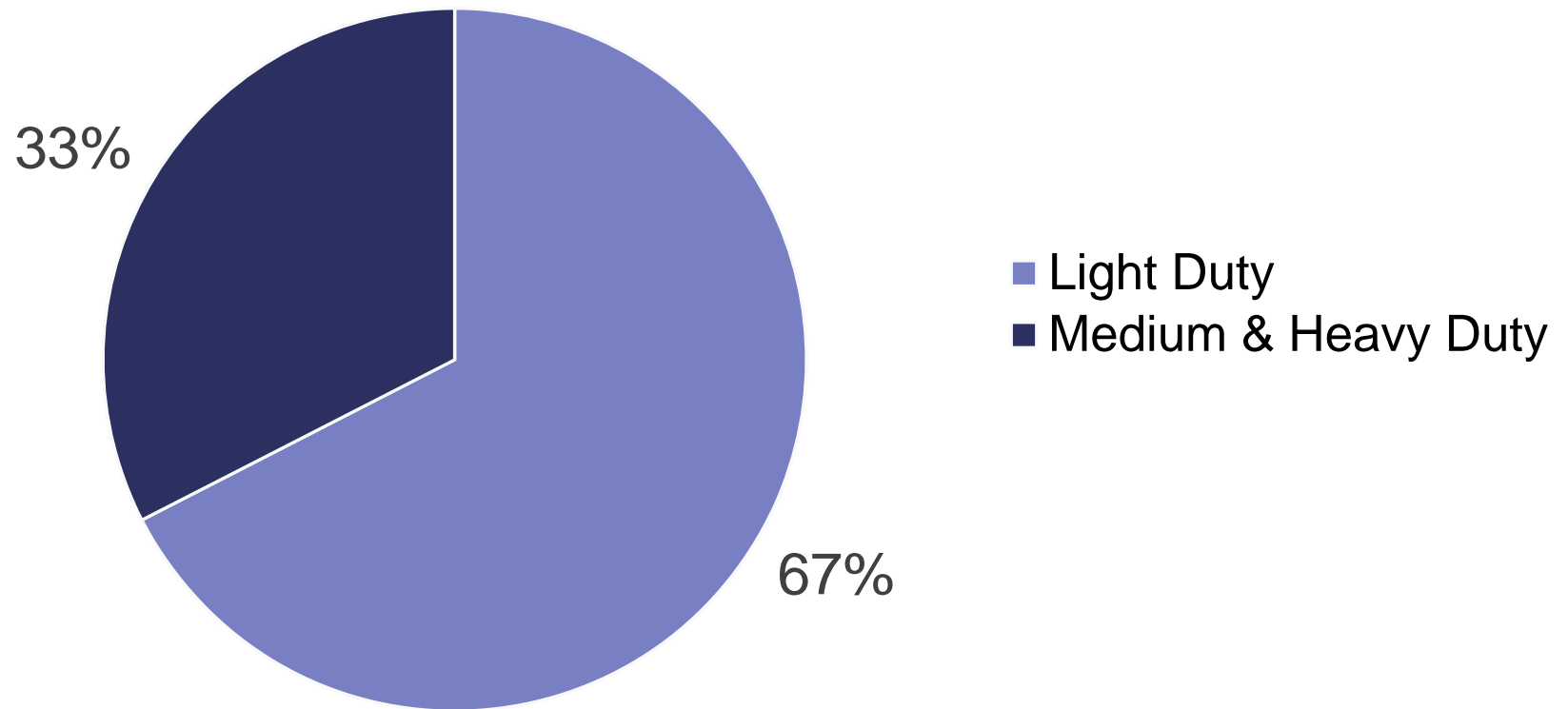
# PROPANE AUTOGAS VEHICLE SALES



# 2015 PROPANE SALES



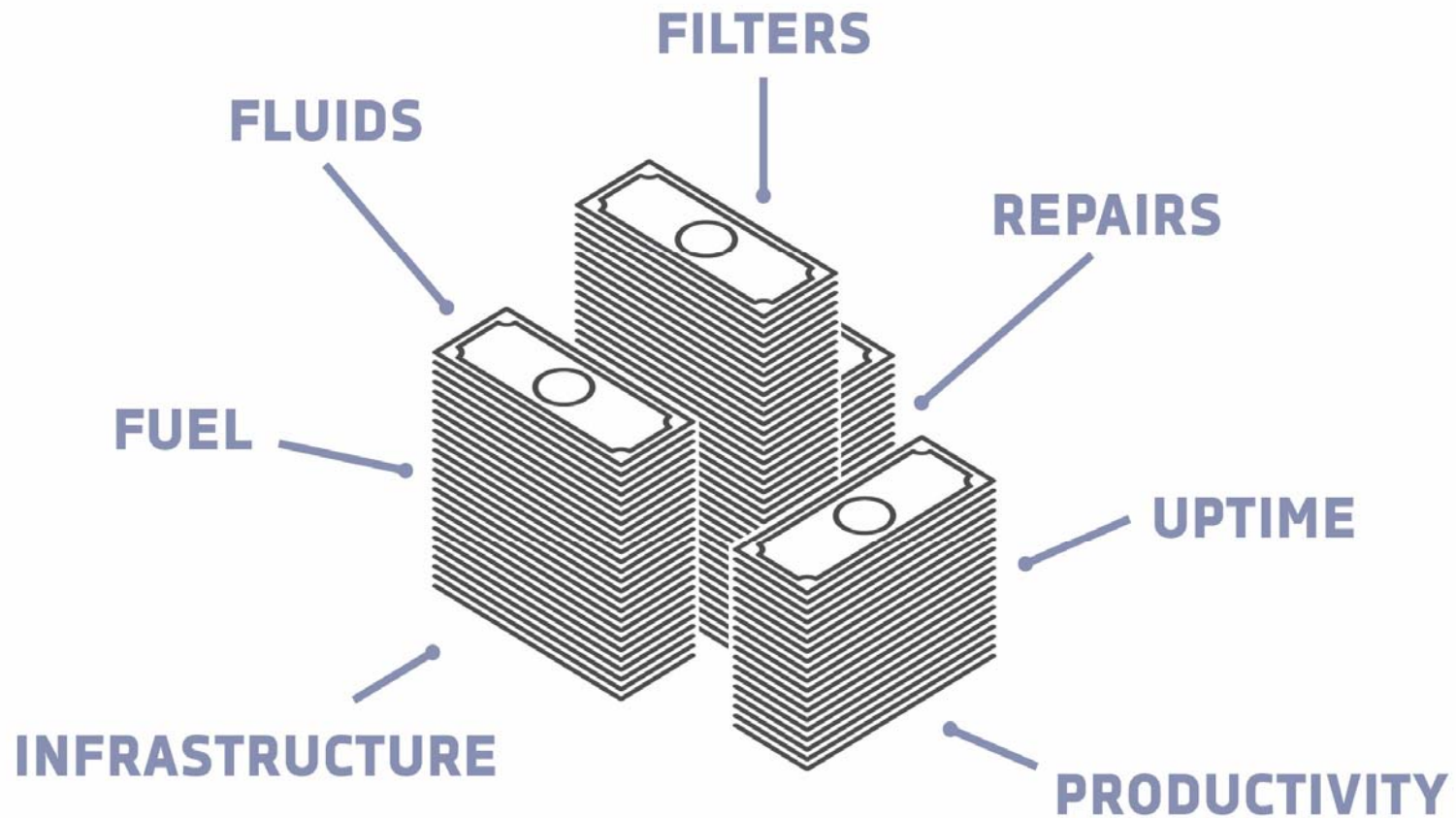
# NEW PROPANE SALES 2015





# TOTAL COST OF OWNERSHIP

# GO BEYOND THE “PUMP” AND “FREE MONEY”



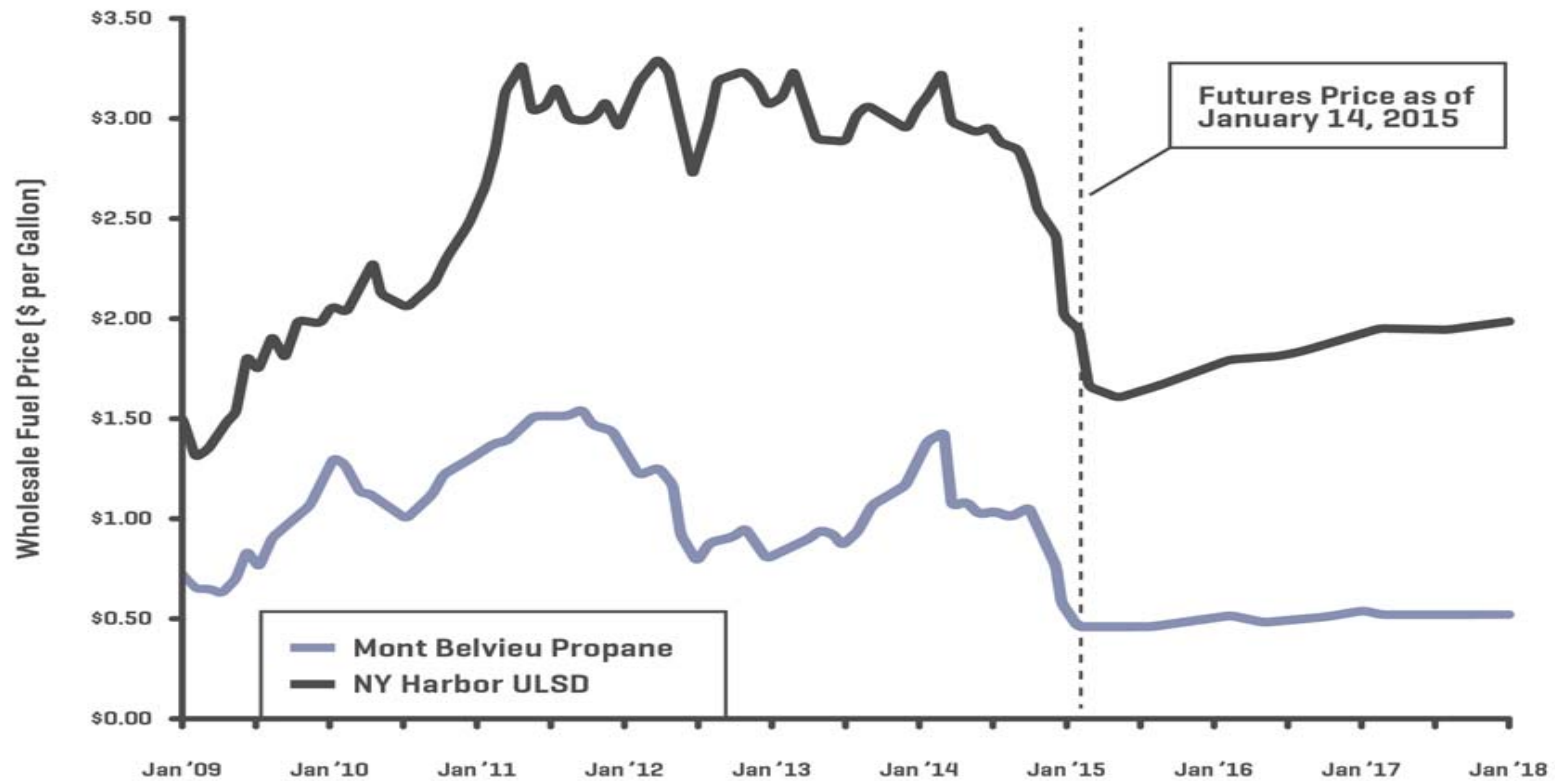
---



# THE 3 F's:

**FUEL, FLUIDS, AND FILTERS**

# THE THREE "F"s: FUEL



Wholesale Fuel Prices

## THE THREE “F”s: FLUID



+



Diesel = More Fluids to Purchase, Store and Change

---

## THE THREE “F”s: FILTERS

 **FILTERS** 

**MUST BE CLEANED**

////////// **EVERY 200,000** //////////

////////// **MILES** //////////

Diesel = Extra Cost & Maintenance of Diesel Particulate Filters

---

# STAY OUT OF THE SHOP

//////////  
**DIESEL**  
**VEHICLES**



//////////  
**CAN REQUIRE**  
**EXPENSIVE**  
**REPAIRS**

//////////  
**WITHOUT PROPER MAINTENANCE OR AFTER IDLING**

---

# KEEP WORK VEHICLES WORKING

~~TIME FOR REGEN~~

~~TIME FOR REPAIRS~~

~~EXTRA MAINTENANCE~~

~~TIME FOR BLOCK HEATERS IN COLD WEATHER~~

~~TIME FOR SPARE VEHICLE PREP~~



PROPANE EDUCATION & RESEARCH COUNCIL

# THE FUTURE

# DIRECT INJECTION

- The market share for direct injected spark-ignition engines is rapidly increasing.
- DI provides a straightforward approach for OEMs to introduce competitively priced propane vehicles.
- DI and propane enable boosted downsized engines to provide diesel-like torque with high efficiency.







Ready Refresh

JUST CLICK AND QUENCH



ReadyRefresh.com

YOU choose WE deliver!

Powered by CLEAN BURNING PROPANE AUTOGAS













# LANDSCAPE

 PROPANE EDUCATION & RESEARCH COUNCIL

# One Fuel Solution

- Adoption across entire fleet.
  - Mowers
  - Generators
  - Autogas
- Fueling Simplicity and Security.
  - One fuel, one price.
  - No spillage.
  - No pilferage.



# Commercial Mowing OEM Partners

