The Revolution of Alternative Fuel Vehicle Systems

Latin America & Caribbean

Property of ICOM North America
At Icom North America
We Have One Of The Best and Most Positive Missions:

HELPING FLEETS TO ACHIEVE AS SEAMLESSLY AS POSSIBLE

First:

- CLEANER AIR -- Propane can reduce emissions by up to 60% & ZERO Particular matter

Second:

- DOMESTIC FUEL -- The USA and CANADA have abundant Propane and Natural Gas Resources!

Third:

- FLEET FUEL SAVINGS -- NO WARS!!! Energy Security

Fleets can often dramatically reduce their fuel costs by using propane autogas!

$$$$savings$$$$
Hundreds of Icom Fleet Success Stories Including:

PUBLIC SECTOR:

- **US National Park Services**
  - An Icom customer for 5 years with many contracts across the country
- **WSDOT**
  - An Icom customer for 3 years with hundreds of systems
- **Yale University**
  - An Icom customer for 2 years with a couple dozen systems
- **Numerous Para-Transit & Shuttle bus companies Around the country**
  - With well OVER 1,000 systems as far back as 6 years
- **Springfield Illinois Police Dept.**
  - An Icom customer for 5 years with approximately 80 systems, including 50 police vehicles
- **Columbus OH Airport Authority Shuttle Buses**
  - An Icom customer for 6 years with over 60 shuttle buses
- **Wyandotte County KS**
  - An Icom Customer for 5 years with approximately 80 systems
- **City of Boston**
  - An Icom customer for 3 years with a few dozen vehicles
- **City of Livonia MI**
  - An Icom customer for 4 years with dozens of vehicles

All the above fleets and many others continue to add Icom systems each year!
Hundreds of Icom Fleet Success Stories Including:

PRIVATE SECTOR:

- **UPS**
  - An Icom customer for 5 years with hundreds and hundreds of systems

- **FEDEX Contractors**
  - Many Icom customers around the country for 4 years with many dozens of systems

- **Metro Cars**
  - An Icom customer for 6 years with OVER 500 systems

- **Old Town Trolleys**
  - An Icom customer for 5 years with a few hundred systems

- **Groomes Transportation**
  - An Icom customer for 5 years with hundreds of systems across the country

- **Super Shuttle**
  - An Icom customer for 3 years with dozens of systems

- **Yellow Cab companies**
  - Icom customers for 5 years with hundreds of systems

- **Eastern Propane**
  - An Icom customer for 4 years with a few hundred systems
Benefits of Utilizing Propane Autogas

- **$**: Substantial fuel cost savings as compared to gasoline or diesel
- **Tree**: Reduce emissions of toxins by up to 30-90% compared to gasoline
- **Flag**: Domestic – Propane is produced in North America, with large reserves in the U.S. and Canada
- **$**: Lower maintenance cost
- **Tree**: Greenhouse gas emissions are reduced approximately 20%
- **Clock**: Maintains the torque, horsepower, and drivability you would feel in a gasoline vehicle

Courtesy of PERC
What is Propane?
Propane is liquefied petroleum gas that consists of propane, propylene, butane, and butylenes in various mixtures. In the United States, propane is the primary ingredient. Propane is a by-product of natural gas processing and petroleum refining and it is stored under moderate pressure to maintain its liquid state.

Why is Propane a Clean Air Choice?
Propane vehicles produce less tailpipe emissions of virtually all pollutants associated with automobile vehicles that use gasoline or diesel. According to the U.S. Environmental Protection Agency, a typical four-horsepower gasoline lawnmower engine generates almost six times as much volatile organic compound (VOCs) per hour of use as a typical car. Converting small utility engines such as lawnmowers to burn propane can reduce emissions of ozone precursors by one third and increase fuel economy by 14 percent.

What are the other benefits of Propane?
• Energy Security: the majority of propane used in the U.S. today is domestically produced.
• Cost: Propane costs less than gasoline and diesel fuel per gallon
• Availability: with numerous propane vehicles available and a national infrastructure of pipelines, processing facilities, and storage already exists for the efficient distribution of propane, the propane option is accessible to the masses.

American Lung Association of The Upper Midwest
490 Concordia Avenue
St. Paul, MN 55103-2441
Phone: 651-227-8014
Fax: 651-227-5459
Email: cleanairchoice@lungum.org
Propane Autogas is Safe.

- Meets all federal motor vehicle safety standards.
- Fuel tanks are 20 times more puncture-resistant than gasoline and diesel tanks.
- Stored at relatively low pressure, about 250 psi.
Propane Autogas is a contained fuel source:

- No spillage
- No shrinkage
- No pilferage
- No contamination
- Non-toxic
Conclusion: Propane Autogas hits the sweet spot for most CLASS 2 to CLASS 7 vehicles (with CLASS 8 Trucks on their way soon!!!) in most fleet sectors.

✓ ROI is the best!
✓ Maximized fuel range
✓ Fueling Infrastructure is reasonably priced & can be located almost anywhere!
✓ EPA Certified Systems availability is the widest and deepest of all the Alternative Fuels!
✓ Cradle to Grave emissions are among the best!
✓ Fuel supply partners are numerous & financially sound

PROPANE AUTOGAS IS THE BEST CHOICE!
ICOM North America

- Established North American operations in 2004
- Headquarters and Assembly Plant in New Hudson, Michigan
- Icom systems utilize a substantial percentage of domestic components
- Icom systems are Safety tested & safe: NFPA 58 & DOT FMVSS303 compliant, Canadian CSA Certified to -40 degrees, E67/01 Certified, & Successfully Crash Tested
- Icom has the industry leading list of OVER 1,200 EPA CERTIFIED vehicle platforms and over 400 EPA Certificates
- Both Bifuel & Monofuel (Dedicated) Systems
Icom Systems and Technology in North America

Approximately:

- 30,000 Propane Liquid Injection Systems in use in North America utilizing Icom Technology
- Fleets enjoyed a huge fuel cost savings of over $1,500,000,000 to date
- *Estimated emissions reduction over 35% and Particulate Matter reduced to Zero!*
- **APPROACHING 1 BILLION GALLONS OF PROPANE AUTOGAS UTILIZED!**
- 900,000,000 gallons of gasoline and diesel displaced
- 7.5 Billion miles driven safely!
- Icom is working hard with our partners and Dealers to place over **100,000 Icom systems** on the road in the next 5 years
JTG® MultiValve

The Advanced JTG Multivalve with Integrated Exclusive fully Encapsulated Fuel Pump

Developed and Patented by Icom for improved serviceability!!

- Utilizing the Icom Exclusive fully Encapsulated Pump which does not sit on the bottom of the tank attracting debris!
- No need to depressurize fuel tank to access fuel pump!
- Increased flow rate for fast filling
EPA Certifications
The Icom JTG II system is EPA Certified for over 1,200 2009-2018 vehicle platforms including many Ford models.

The Total Solution for any Type of Fleet!

E150  E250  E350
F150  F250  F350
F450 F550  F550 F650  F750
E450

Ford Taurus
Lincoln MKZ

Ford Explorer
Lincoln MKT

Lincoln Navigator
Ford Expedition

Ford Transit

F53  F59
(Bakery, Linen, FedEx type box trucks)
EPA Certifications

ICOM JTG Liquid Injection Bi-Fuel Propane System is EPA certified for most 2010-2018 GMC and Chevrolet Light trucks and SUV’s equipped with the 4.8L, 5.3L engine & 6.0L

- Chevy Silverado
- GMC Sierra
- Chevy Express
- GMC Savana
- Chevy Tahoe
- GMC Yukon
- Chevy Suburban
- Chevy Cutaway
- Available shortly
- 6.0L HD

Please confirm with Icom engine family
Autogas Fleet Case Study

Approximately

- Happy Icom customer since 2011
- OVER 300 vehicles with Icom system currently
- Utilized OVER 500 Icom systems in the last 7 years!
- Many-Many Millions gallons of propane Autogas utilized since 2007
- Vehicles endure 3 years of hard driving and LOTS of idling
- Lincoln Navigators, & Town Cars, Ford E450 Shuttle Buses, and Chevy Suburbans
Autogas Fleet Case Study

• Happy Icom customer since 2014
• 63 - Ford E250 and E350 Inmate driven work release farm/factory Passenger vans
• Annual average of 55,000 miles per vehicle @ 11MPG
• Average per gallon SAVINGS of $1.12 as compared to gasoline
• SAVINGS from project of Approximately $1 Million
• UTILIZED OVER 1 MILLION GALLONS OF AUTOGAS TO DATE!!
Autogas Fleet Case Study

Icom Propane Systems are Certified for and start and run well down to -40 degrees BRRRRR!!!

Many – Many Hundreds of Icom Monofuel Systems across Canada

Utilizes Millions of gallons of propane annually and continues to grow year after year!!
Approximately:
250 Icom Propane Trolleys, Shuttles and Support Vehicles in many locations in the USA including:

- Key West FL
- St. Augustine FL
- Arlington National Cemetery
- Savannah GA

Icom Customer Since 2011
Adds on average 50 New Propane Vehicles per year

LOTS of IDLING
NO BLACK EXHAUST

MILLIONS OF GALLONS OF PROPANE UTILIZED ANNUALLY!!
Thank You for your interest!

With the proper use of alternative fuels, we can enjoy increased energy security, increased employment in an emerging sector, and decreased emissions.

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