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ADVERTORIAL 

*The patented ICOM Vortex Mixer, which optimizes fuel mix and incorporates a method to reduce methane slip.*

# DIESEL DUAL-FUEL PROPANE TECHNOLOGY:

## A Smarter Fuel Strategy for Propane Fleets

### Diesel prices continue to place immense pressure on fleet operating budgets.

ICOM's patented Dynamic Propane Diesel Dual-Fuel Systems provide an advanced dual-fuel solution designed to help fleets reduce diesel consumption, lower operating costs, and improve overall efficiency.

ICOM's Dynamic Dual-Fuel Propane Diesel technology works by introducing propane into the engine's intake air stream while diesel remains the primary ignition source. This allows the engine to maintain normal diesel operation while displacing a portion of diesel fuel with affordable propane. The result is a cleaner, more efficient combustion process that can help reduce fuel costs, soot, carbon buildup, and emissions.

ICOM's system is engineered for controlled, reliable operation. The technology includes ECU-controlled propane injection, load-based substitution, and integrated safety monitoring using multiple temperature sensors, pressure monitoring, CAN bus communication, and knock sensing. These controls help ensure propane is delivered only when operating conditions are appropriate, supporting performance, safety, and engine protection.

Under load, ICOM's diesel dual-fuel systems are designed around an average diesel displacement strategy of approximately 25 percent, optimized for reliability, efficiency, and real-world fleet use. In addition to reducing diesel usage, fleets may also experience an estimated 5 to 7 percent MPG increase, depending on application, duty cycle, and operating conditions.

The benefits go beyond fuel savings. Cleaner combustion can help reduce soot and carbon buildup, potentially leading to less downtime and longer maintenance intervals. Fleets retain the flexibility to operate on diesel-only or dual-fuel mode, giving operators confidence and control.

The wars in the Middle East and Russia/Ukraine have a very negative effect on diesel fuel availability and stability, as well as pricing. A large amount of diesel refining infrastructure has been destroyed in Gulf countries and Russia, and it could get worse fast. In addition, key California refineries have recently closed or will soon close forever. No new refineries are being built.

ICOM has been distributing its ICOM Dynamic CNG or LNG/Diesel System, natural gas being more prevalent, and Propane/Diesel System to many markets globally for over 15 years for on-road heavy duty, medium duty, and light duty trucks and buses, as well as for off-road generators and trucks. This includes projects in:

- Mining trucks on the very cold China-Mongolia-Russia border
- Canada
- The Sweltering area of India
- Mexico
- Caribbean
- Latin America
- Africa

ICOM has recently announced the ICOM Dynamic Propane/Diesel System Plan for the U.S. market and further expansion in Canada. This technology is a game-changer for diesel fleets.

ICOM North America, LLC, based in New Hudson, Michigan, is a leading manufacturer of propane and natural gas systems for vehicles and engines for OEM and aftermarket projects for the past 23 years and has attained numerous patents.

### ICOM is a GM new engine distributor.

A few years ago, due to intense demand from fleets, ICOM partnered with an OEM Remanufacturer to exclusively distribute 8.0 and 8.8 remanufactured PSI engines for Propane Bobtails and School Buses, with a 100,000-mile limited warranty. ICOM has provided many hundreds of engines for these fleet sectors with great success. Many other popular Ford and GM fleet engines, such as the Ford 6.8 and 7.3 engines, are also available.

*LNG Truck with the ICOM Dynamic Dual Fuel System.*



Please contact **Albie Venezio** regarding the **ICOM Dynamic Propane/Diesel System** at: [albie@icomnorthamerica.com](mailto:albie@icomnorthamerica.com) or 248-838-8726

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