

A Domestic Resource

- Propane autogas¹ is the leading alternative fuel in the United States and the third most commonly used vehicle fuel, following gasoline and diesel.
- More than 90 percent of the United States propane autogas supply is produced domestically, with an additional 7 percent from Canada.
- Almost 75 percent of propane used in the U.S. comes from natural gas refining, and the remaining comes from petroleum during the refining process.

Readily Available and Abundant

- More than 23 million vehicles travel worldwide with propane autogas in their fuel tank. This includes shuttles, school buses, taxis, delivery vans, construction trucks, paratransit vehicles and more.
- There are thousands of propane autogas refueling stations in the United States, with stations in every state.
- Many fleet managers elect to install low- or no-cost on-site refueling infrastructure, eliminating trips to off-site stations.
- Propane autogas fueling infrastructure costs less than any other transportation energy source — conventional or alternative.

Environmental and Economic Benefits

- Light-duty fleet vehicles that run on propane autogas emit fewer greenhouse gases, smog-producing hydrocarbons, and particulate emissions than gasoline fueled light-duty vehicles. When compared with gasoline, vehicles fueled by propane autogas produce:
 - 17-25 percent less greenhouse gases.
 - 20 percent less nitrogen oxide.
 - Up to 60 percent less carbon monoxide.
- Heavier-duty vehicles fueled by propane autogas emit fewer greenhouse gases and total hydrocarbon emissions, and virtually eliminate particulate matter, when compared to conventional diesel powered heavy-duty vehicles.
- Propane autogas burns cleaner in engines than gasoline and diesel, which results in reduced maintenance costs and potential for longer engine life.

¹ Propane autogas is the internationally recognized term for propane when used in on-road engines.

- For more than 30 years, the cost of propane autogas has been, on average, 30 to 40 percent less than the cost of gasoline. The cost differential between propane autogas and diesel is 40 to 50 percent.
- Vehicles fueled by propane autogas have an initial purchase price that can be \$4,000 to \$16,000 more than that of gasoline- or diesel-fueled vehicle. The extra cost is offset by the lower fuel and maintenance costs of propane autogas over the life of the vehicle. Payback periods for high-mileage fleet vehicles are even shorter.

Safety and Performance Characteristics

- Propane autogas is a nontoxic, non-carcinogenic and non-corrosive fuel.
- Propane autogas vehicle fuel tanks are 20 times more puncture-resistant than gasoline or diesel tanks. They are constructed from carbon steel in compliance with the American Society of Mechanical Engineers.
- Liquid propane autogas injection systems offer equivalent horsepower, torque and towing capacity as gasoline-fueled counterparts.
- Buses fueled by propane autogas reduce noise levels by about 50 percent when compared to buses fueled by diesel.
- Vehicles fueled by propane autogas can help fleet managers achieve performance, economic and environmental goals.

Propane Autogas Customers

- ROUSH CleanTech has deployed thousands of Ford trucks and vans and Blue Bird school buses fueled by propane autogas to fleets across America, including:
 - Private fleets such as DISH, DHL Express, Frito-Lay, Sears, SuperShuttle, Sears and ThyssenKrupp Elevator.
 - Government municipalities like King County, Wash., City of Riverside, Calif., and the City of Cincinnati.
 - School districts such as Georgia's Hall County Public Schools, Missouri's Fort Zumwalt School District, Mesa Public Schools in Arizona, and Los Angeles Unified School District.

Learn More

- ROUSH CleanTech: ROUSHcleantech.com
- Propane Education & Research Council: autogasusa.org
- Department of Energy's (DOE) Clean Cities: cleancities.energy.gov
- DOE Office of Energy Efficient and Renewable Energy: afdc.energy.gov