



# Light-Duty Propane Autogas Vehicles

Propane autogas, also known as liquefied petroleum gas (LPG) is a domestically produced, high-energy density, relatively low cost, and clean burning alternative fuel used to power light, medium, and heavy-duty vehicles. Propane used in vehicles is specified as HD-5 propane, a mixture of 90% propane, 5 % propylene, and 5% other gases. It has a high-octane rating making it an excellent choice for spark-ignited internal combustion engines. Using propane vehicle fuel increases energy security, provides performance benefits, and improves public health and the environment.

## Sample Light-Duty Propane Autogas Vehicles

There are many options when it comes to light-duty propane autogas vehicles. Most light-duty vehicles include pick-up trucks, sedans, police cruisers, and vans. A wide variety of options are available from major OEMs as both dedicated vehicles and conversions. Contact your local dealer to find more available propane vehicle options.

lower cost than that of gasoline enabling a quick return on investment.

Propane vs. Diesel Cost Comparison (for Police Interceptor Sedan)			
Gasoline		Propane	
Base Vehicle Purchase Cost	\$29,000	Incremental Vehicle Purchase Cost	\$6,000
Avg. Annual Fuel Use (gallons)	1,500	Avg. Annual Fuel Use (GGE)	800
Annual Mileage	15,000	Annual Mileage	17,000

Price Levels	Median Oil Price	
Fuel Type	Gasoline (\$2.77)	Propane (\$1.51)
Avg. Annual Fuel Costs	\$4,155	\$1,208
Avg. Annual Fuel Cost Savings	\$2,947	
Payback Period	2.0 years	

OEM	Outfitters	Model	Engine	Fuel Type
Ford	Blossman	F-150	5.0L V8	Bi-fuel
Ford	Blossman	Police Interceptor Sedan	3.7L V6	Bi-fuel
Chevrolet	ICOM	Express Cargo Van	6.0L V8	Bi-fuel



Ford Police Interceptor Sedan



Ford F-150

## ROI Scenario for Light-Duty Propane Autogas Vehicle

The vehicle cost comparison between a light-duty propane autogas vehicle and a light-duty gasoline vehicle shows a positive fuel costs savings amount that will provide a payback of the incremental \$6,000 purchase price under a low, median, and high oil price scenario. Propane autogas can be a good option for police vehicle fleets because of propane's

## LPG/Propane Fueling Station Locator

Hundreds of LPG/propane fueling stations are available in the United States. Visit the U.S. Department of Energy Alternative Fuels Data Center to find LPG/propane fueling stations in the United States and Canada: [https://afdc.energy.gov/fuels/propane\\_stations.html](https://afdc.energy.gov/fuels/propane_stations.html).