

## WHY CHOOSE PROPANE?

- ✓ Propane fuel prices are lower and less volatile than gasoline and diesel.
- ✓ Propane is abundant and has the largest infrastructure of any alternative fuel.
- ✓ Propane vehicles often have lower maintenance costs, fewer scheduled service visits, longer engine life, and higher resale value than gasoline vehicles.
- ✓ Propane has environmental benefits over other conventional and alternative transportation fuels.
- ✓ Propane tanks are safer than gasoline tanks in a collision.
- ✓ Propane vehicles enjoy comparable performance to gasoline vehicles.



The price of propane is 36% less than gasoline and 35% less than diesel (on average, per litre).

### Success Story

The London Police Service has 65% of its fleet vehicles running on propane (71 sedans, 20 trucks & vans). Having used propane instead of gasoline for part of its fleet since the 80s, they estimate the total savings from the conversion program to be between 3 and 4 million dollars.

## CALCULATE YOUR SAVINGS!

Find out just how much money you could be saving by switching over to propane.

From January – December 2009, the average retail price of auto propane in Canada was 60¢ per litre, compared to 94¢ for gasoline.

For one propane vehicle averaging 100,000 km per year, with this 34¢-per-litre price advantage over gasoline, that's a fuel cost savings of \$3000 annually. The cost of the conversion is paid for before the second year has passed!



For a 20 vehicle fleet, a 34¢-per-litre price advantage translates to annual fuel costs savings of \$61,000.

Try the propane savings calculator at [www.propaneconversion.ca](http://www.propaneconversion.ca)

## SAFE FOR THE ENVIRONMENT

Clean-burning propane is safer for the environment. Non-toxic, it will not contaminate soil or water, it is not a greenhouse gas, it contains no lead and has extremely low levels of sulphur, a contributor to acid rain.



Propane vehicles emit 27% fewer greenhouse gases than gasoline vehicles.

Propane vehicles emit significantly fewer cancer-causing toxic substances, and air-polluting criteria air contaminants than gasoline and diesel.

### Success Story

UPS Canada added 139 propane delivery trucks in 2008 to the 600 propane trucks they already had. With the new additions they expect to reduce carbon dioxide emissions by a total of 254 metric tonnes per year, the equivalent weight of 80 UPS trucks!



Blue Bird Propane-Powered Type C School Bus.  
The Vision Propane fuel system meets Canadian Motor Vehicle Safety Standard 301.1.

## SAFE FOR DRIVING

Propane is the most commonly used alternative transportation fuel in Canada, with 40,000 vehicles running on propane.

Worldwide, there are over 13 million vehicles safely powered by propane.

### Safety Facts

- ✓ Propane tanks are 20 times more puncture-resistant than gasoline tanks, making them less likely to rupture in an accident.
- ✓ Propane is odourized with Ethyl Mercaptan (which makes it smell like rotten eggs) so that leaks may be easily detected.
- ✓ Propane has a much higher ignition temperature than gasoline, requiring temperatures of about 500°C to burn, while gasoline will burn or explode at about 260°C.
- ✓ Onboard gas detectors and other safety valves allow fuel to flow only when the engine is operating.
- ✓ Propane engine fuel systems are fitted with safety devices and shut-off valves that function automatically to prevent the escape of propane if the fuel line ruptures in an accident.

Propane is a safe automotive transportation fuel. With the advantage of its low-carbon impact, no other alternative transportation fuel is as effectively poised to assist in meeting climate change and air quality challenges in Canada while returning significant savings.

## INTERESTED IN CONVERSION?

Visit [www.propaneconversion.ca](http://www.propaneconversion.ca) for everything you need to analyse why propane is a good choice, how you can save money and the environment, and how to make the switch.

To speak with an auto propane expert, contact a propane service provider in your community or call the nearest propane conversion centre listed at [www.propaneservices.ca](http://www.propaneservices.ca).



Brought to you by the Propane Gas Association of Canada, the national voice of the Canadian propane industry, whose mission is to support members in the growth and development of a safe, environmentally responsible Canadian propane industry, for the benefit of all Canadians.

[www.propanegas.ca](http://www.propanegas.ca)

All facts presented herein can be found at:  
[www.propaneconversion.ca](http://www.propaneconversion.ca)

## CONVERSION TECHNOLOGY

The [performance](#), [efficiency](#) and [operating range](#) of a propane vehicle are comparable to gasoline vehicles.

Currently in Canada, most propane-powered vehicles are converted to run on propane after purchase from the Original Equipment Manufacturer (OEM). Aftermarket conversion equipment is readily available and a network of conversion centers exists.



A conversion kit can be purchased and installed by a professional conversion shop and can take as little as one to two days.

When a vehicle is converted to run on propane, two configurations are available:

- Dedicated — runs only on propane
- Dual-fuel — runs on both propane and gasoline

The propane conversion kits in use today — both [vapour injection](#) or [liquid injection](#) — use the sequential injection system currently installed on vehicles at the factory for gasoline.



For a list of conversion shops across Canada visit:  
[www.propaneservices.ca](http://www.propaneservices.ca)

## REGULATIONS & TRAINING

Transport Canada's Motor Vehicle Safety Act, the Canadian Standards Association (CSA), and a number of provincial regulations all contribute to the regulation of propane vehicles to ensure that propane fuel systems are constructed and tested to be extremely safe.



In Canada, it is the law that individuals transferring propane from one container to another must be the holder of a training certificate recognized by the authority having jurisdiction.

### Need Training?

The Propane Training Institute (P.T.I.), a division of the PGAC, offers affordable training courses on the safe handling of propane, propane-powered equipment, conversion and inspection of vehicles, and the filling of auto propane tanks. These courses satisfy federal and provincial training requirements.

More about P.T.I is available at:  
[www.propanegas.ca](http://www.propanegas.ca), or call 1-887-PTI-INFO



# AUTO PROPANE

TOP CHOICE FOR FLEETS

### Propane-powered fleets are:

- Cost-effective
- Clean-burning
- Reliable
- All of the above



Choosing propane to power your fleet is an excellent way to save money and contribute to a cleaner environment.

Propane is abundant in Canada and readily accessible, with over 2000 propane refuelling stations already in place, and service providers equipped to quickly and cost-effectively install additional infrastructure as needed to service your fleet.



PROPANE GAS ASSOCIATION OF CANADA  
[WWW.PROPANEGAS.CA](http://WWW.PROPANEGAS.CA)