

VEHICLE FLEET

POWERED by:

**CLEAN, EFFICIENT,
NATURAL GAS**



CVR carried out a pilot project of converting 2 of our fleet trucks into Natural Gas Vehicles in 2017. Based on the success of this pilot we are expanding our Natural Gas fleet to 7 in 2018.

Why Natural Gas Vehicles?



COST SAVINGS

As we typically turnover our fleet vehicles at 200,000 km, that's a **saving of \$26,000 over the life of a CVR truck.**

Avg. Costs (first 50,000 km)

\$0.01 / km
Natural Gas
trucks

\$0.14 / km
Gasoline
trucks

ENVIRONMENT

Natural Gas is the cleanest burning fossil fuel and produces 25% less carbon emission than gasoline. In a region where excess Natural Gas is produced through the oil recovery process and often vented to the atmosphere (estimated to be 25x more environmentally harmful than CO₂ emissions) CVR constantly seeks new uses for Natural Gas.

CO₂
emissions
will be
reduced
by 3.25
tonnes
per truck
converted
each year

IT'S SAFE... AND RELIABLE

Worldwide, there are over 24 million Natural Gas Vehicles in operation. In Latin America nearly 90% of all vehicles are bi-fuel Natural Gas/Gasoline.

- a safer and less volatile fuel than gasoline
- burns cleaner so they operate more quietly and with less engine wear
- U.S. survey of 8,331 natural gas fleet vehicles (that travelled approx. 300 million km's) found that the natural gas fleet vehicle injury rate was 37 % lower than the gasoline fleet vehicle injury rate.
- Certified Natural Gas Vehicle systems do not negate OEM warranty.

(Sources: U.S. Department of Energy; U.S. Federal Transit Administration.)

HOW IT WORKS

The Natural Gas Vehicles are Bi-Fuel, Natural Gas/Gasoline, which means that they can operate off either fuel source. The vehicles are equipped with a tank, hoses/valves, and an electronic module that supplies the engine first with Natural Gas, then with Gasoline if the Natural Gas tank source is depleted. Different tank sizes and configurations are available based on the specific vehicle dimensions and the driver's desired Natural Gas capacity/distance. The pilot project vehicles utilize an in-box tank that covers the width and depth of the box and extends approximately 20" from the front of the box. With that tank sizing, the pilot project vehicles can travel approximately 500 km on Natural Gas.


Vehicles are filled at a Natural Gas compressor Fill Station installed at the CVR yard. The Fill Station can either "time-fill" the trucks over the course of about 3 hours, or "fast-fill" to approximately 75% of the tank capacity in under 5 minutes.




What's Next

CVR is currently investigating options for expansion of the project including Heavy Truck (Diesel, Dual-Fuel) conversions, on-site residential & commercial onsite fill stations, and a commercial fast-fill station. If you have any questions about Natural Gas Vehicles, please contact the CVR office.



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