

Natural Gas Vehicles (NGVs)

- NGVs use the same internal combustion engines as gasoline/diesel
- NGVs reduce emissions up to 90% over diesel and gasoline

There are two types of NGVs:

- **Compressed Natural Gas (CNG)** – Still in gas state, dispensed at 3,600 psig. CNG is measured in gas gallon equivalents (GGE). One GGE of natural gas produces an equal amount of energy as gasoline and therefore gets the same gas mileage.
- **Liquefied Natural Gas (LNG)** – Refrigerated to minus 260 degrees F to convert to liquid. Liquefying natural gas shrinks its volume 600 times and is typically used in long-haul trucking applications.

Virginia's Three Public Refueling Locations

- **Newport News (Virginia Natural Gas Station)**
 - 746 Diligence Drive, Newport News, VA
- **Norfolk (Virginia Natural Gas Station)**
 - 1184 Lance Road, Norfolk, VA
- **Downtown Richmond (Clean Energy)**
 - 211 Maury Street, Richmond, VA

Private Stations

- City of Chesapeake
- TFC Recycling, Chesapeake, VA
- Colonial Williamsburg
- SuperValu, Mechanicsville, VA

Examples of Available Light-Duty NGVs

- **Honda Civic Natural Gas**
 - Recognized by the U.S. EPA as the cleanest commercially available, internal combustion vehicle.
- Chevrolet Express 2500 / 3500
- GMC Savana 2500 / 3500
- Chevy Silverado HD 2500 (Bi-Fuel)
- Ford F 150/250/350 (Bi-Fuel)
- Ford Transit Connect (Bi-Fuel)
- GMC Sierra HD 2500 (Bi-Fuel)
- Dodge Ram 2500 (Bi-Fuel)
- NGV America: ngvc.org/about_ngv

Affordable*

- **Average CNG Price (VNG Station)**
 - \$1.05 per gas gallon equivalent (GGE)
 - This includes Federal and State Taxes
- **Average price of gasoline (Virginia)**
 - \$2.13 per gallon
- **Difference of \$1.08 per GGE**

Additional / Conversion Cost

- New passenger cars typically have an additional cost of \$5,000–\$7,000. This cost rises with larger vehicles
- Conversion of a gasoline vehicle to natural gas can range from \$6,500–\$18,000 and largely depends on the size of tank being installed.
- Vehicle payback depends on miles driven per year.

Home Refueling

- Home refueling units can typically be installed using an existing gas service line.
- The cost of a NGV refueling appliance begins at approximately \$6,500.