

# Class 5 NGV Truck

Natural gas is a low-carbon, domestically abundant fuel source that powers more than 175,000 NGVs on U.S. roads today and more than 23 million worldwide. Natural gas vehicles (NGVs) are good choices for high-mileage, centrally fueled fleets and in many cases, CNG can provide adequate range for the required vehicle application. The advantages of CNG as a transportation fuel include its domestic availability, widespread distribution infrastructure, and reduced greenhouse gas emissions compared to gas & diesel.

## Sample Class 5 NGV Truck Models

Class 5 trucks are considered medium-duty trucks that weigh between 16,001 to 19,500 lbs by the Federal Highway Administration and EPA Emissions Classification. Many NGV options are available through original equipment manufacturers (OEMs) and qualified system retrofitters. Contact your local dealer to see other available OEM models.

OEM	Application(s)	Model	Engine
<b>Freightliner</b>	Walk-in van, delivery	Custom Chassis Corp MT-55	GM 6.0L V8 LC8*
<b>Ford</b>	Walk-in van, delivery, shuttle	Stripped Chassis F-59	Ford 6.8L V10*
<b>Peterbilt</b>	Delivery	337	CW ISL-G*



2018 Freightliner Custom Chassis Corp MT-55



2018 Ford Stripped Chassis F59



2018 Peterbilt 337

## ROI Scenario for Class 5 NGV Truck

The vehicle cost comparison between a medium-duty Class 5 CNG vehicle and a medium-duty Class 5 gasoline vehicle shows a positive fuel costs savings amount that will provide a payback of the incremental \$15,000 purchase price under a low, median, and

high oil price scenario. The scenario shows that a large return in savings can be made when upfitting a medium-duty gasoline truck to a CNG one. Things to keep in mind when considering CNG vehicles alternative replacements not used in this scenario are potential fueling station, maintenance, and insurance costs.

CNG vs. Diesel Cost Comparison for Class 5 MD Vehicle (Shuttle Application)			
	Diesel	Compressed Natural Gas	
<b>Base Cost</b>	\$60,000	<b>Incremental Cost</b>	\$20,000
<b>Avg. Annual Fuel Use (gallons)</b>	4,000	<b>Avg. Annual Fuel Use (DGE)</b>	4,215
<b>Annual Mileage</b>	30,000	<b>Annual Mileage</b>	30,000

Price Levels	Median Oil Price	
<b>Fuel Type</b>	Diesel (\$2.87)	CNG (\$1.69)
<b>Avg. Annual Fuel Costs</b>	\$11,480	\$7,123.35
<b>Avg. Annual Fuel Cost Savings</b>	\$4,356.65	
<b>Payback Period</b>	4.59 years	



## CNG Fueling Station Locator

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