

Class 6 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 6 NGV Truck Models

Class 6 trucks are considered medium-duty trucks that weigh between 19,501 to 26,000 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
Freightliner	Medium-duty (delivery, towing, service)	M2 106	CW L9N*
Ford	Commercial	F-650 Chassis Cab	Ford 6.8L V10*
Bluebird	School bus	Vision CNG	Ford 6.8L V10



Freightliner M2 106



Bluebird Vision CNG

ROI Scenario for Class 6 NGV Truck

The vehicle cost comparison between a heavy-duty Class 8 CNG vehicle and a heavy-duty Class 8 diesel vehicle shows a positive fuel costs savings amount that will provide a payback of the incremental \$42,000 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 diesel 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.

Diesel		Compressed Natural Gas	
Base Cost	\$90,000	Incremental Cost	\$25,000
Avg. Annual Fuel Use (gallons)	10,345	Avg. Annual Fuel Use (DGE)	11,650
Annual Mileage	60,000	Annual Mileage	60,000

Price Levels	Median Oil Price	
Fuel Type	Diesel (\$2.87)	CNG (\$1.69)
Avg. Annual Fuel Costs	\$29,690.2	\$19,688.5
Avg. Annual Fuel Cost Savings	\$10,001.7	
Payback Period	2.5 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.