



Class 8 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 8 NGV Truck Models

Class 8 NGV trucks are considered heavy-duty vehicles that weigh 33,001 lbs & over 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 New Cascadia



Kensworth T880

ROI Scenario for Class 8 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 \$50,000 purchase price under a low, median, and high oil price scenario. 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 (Regional Haul Application)

Diesel		Compressed Natural Gas	
Base Cost	\$130,000	Incremental Cost	\$50,000
Avg. Annual Fuel Use (gallons)	23,810	Avg. Annual Fuel Use (DGE)	27,367
Annual Mileage	150,000	Annual Mileage	150,000

Price Levels	Median Oil Price	
Fuel Type	Diesel (\$2.87)	CNG (\$1.69)
Avg. Annual Fuel Costs	\$68,335	\$46,250
Avg. Annual Fuel Cost Savings	\$22,085	
Payback Period	2.3 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.