



Class 7 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 7 NGV Truck Models

Class 7 trucks are considered heavy-duty trucks that weigh between 26,001 to 33,000 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	Vocational (refuse, municipal, construction)	114 SD	CW L9N*
Kenworth	Vocational, municipal, local pick-up, delivery	T440	CW L9N
Mack	Refuse	TerraPro	CW L9N



Freightliner 114 SD



Mack TerraPro

ROI Scenario for Class 7 NGV Truck

The vehicle cost comparison between a heavy-duty CNG vehicle and a heavy-duty diesel vehicle shows a positive savings amount that will provide a payback of the incremental \$35,000 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 for Class 7 HD Truck (Refuse Application)

	Diesel	Compressed Natural Gas	
Base Cost	\$160,000	Incremental Cost	\$35,000
Avg. Annual Fuel Use (gallons)	10,333	Avg. Annual Fuel Use (DGE)	10,653
Annual Mileage	31,000	Annual Mileage	31,000

Price Levels	Median Oil Price	
Fuel Type	Diesel (\$2.87)	CNG (\$1.69)
Avg. Annual Fuel Costs	\$29,656	\$18,004
Avg. Annual Fuel Cost Savings	\$11,652	
Payback Period	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.