



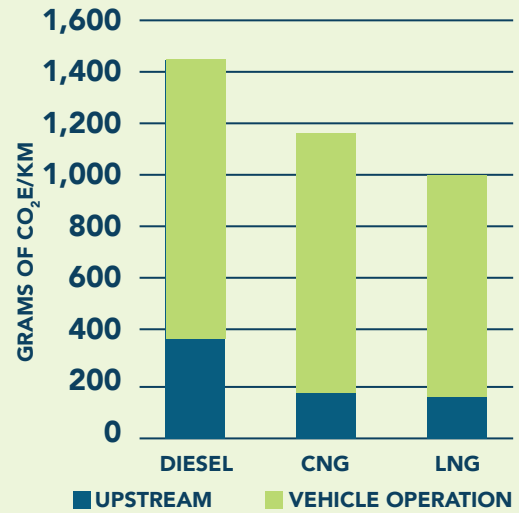
# NATURAL GAS VEHICLES

Natural Gas Vehicles can reduce emissions from the transportation sector, currently the largest source of emissions in the United States and second largest in Canada.

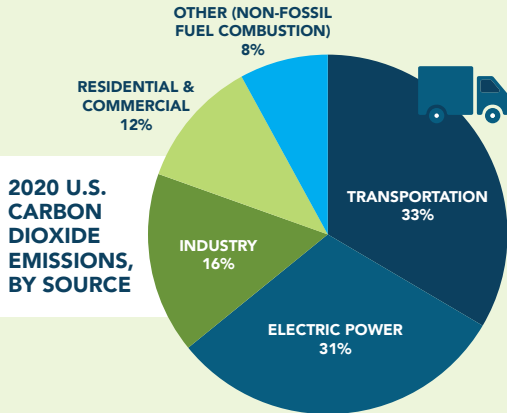


## EMISSIONS BENEFITS OF NATURAL GAS VEHICLES (NGV)

One of the primary advantages of NGVs is that they produce significantly less tail pipe emissions than diesel vehicles. The adoption of NGVs can be an effective strategy to reduce transportation-related emissions and comply with stricter clean air regulations.



Source: Natural Gas Use in Transportation Roundtable, "Natural Gas Use in the Canadian Transportation Sector"



U.S. TRANSPORTATION SECTOR IS THE LARGEST SOURCE OF GREENHOUSE GAS EMISSIONS IN THE COUNTRY.

NGVS PRODUCE 21% TO 30% LESS CO<sub>2</sub> COMPARED TO DIESEL-FUELED VEHICLES.<sup>3</sup>



RENEWABLE NATURAL GAS (RNG) CAN REDUCE EMISSIONS EVEN FURTHER.

Source: <https://www.epa.gov/ghgemissions/overview-greenhouse-gases>



## ADDITIONAL BENEFITS OF NATURAL GAS VEHICLES

CNG is estimated to cost **40% to 45% less** than gasoline and diesel.<sup>4</sup>

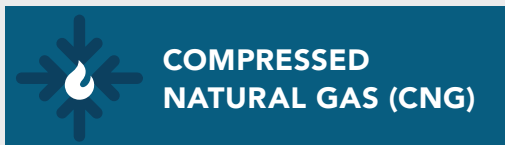
INCENTIVES FOR RNG MAY BRING DOWN PRICES EVEN MORE.



In 2020, **53 percent** of all on-road fuel used in NGVs was RNG.<sup>5</sup>

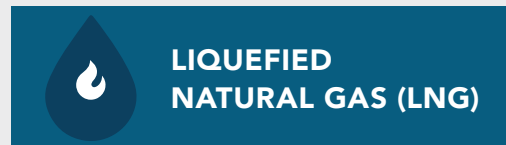


## COMPRESSED NATURAL GAS VS. LIQUEFIED NATURAL GAS



**COMPRESSED NATURAL GAS (CNG)**

- NATURAL GAS IN GASEOUS FORM
- CAN BE TRANSPORTED TO FUELING STATIONS OR STORED IN PRESSURIZED TANKS<sup>1</sup>
- TAKES UP LESS SPACE COMPARED TO CONVENTIONAL NATURAL GAS
- USED IN A RANGE OF ON-ROAD VEHICLES



**LIQUEFIED NATURAL GAS (LNG)**

- COOLED INTO A LIQUID
- KEPT AT VERY LOW TEMPERATURES FOR STORAGE AND SHIPPING
- TAKES UP LESS VOLUME THAN CNG<sup>2</sup>
- USED IN A RANGE OF ON-ROAD VEHICLES

1. Energy Education, Compressed Natural Gas, 2018  
 2. U.S. DOE, Liquefied Natural Gas  
 3. Natural Gas Use in Transportation Roundtable, Natural Gas Use in the Canadian Transportation Sector, 2010  
 4. U.S. DOE, Alternative Fuels Data Center, 2022  
 5. NGVAmerica, Renewable Natural Gas Achieves Majority NGV Motor Fuel, 2021