

Driving Down Emissions with Renewable Natural Gas



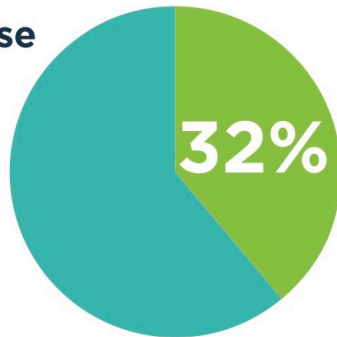
Proven natural gas vehicle technology is 90% cleaner than current U.S. EPA standards. Fueling NGVs with biomethane (RNG) improves emissions even further. Waste-derived gas, captured and conditioned above ground, yields ultra-low, carbon-neutral, or even carbon-negative lifecycle emissions.

RNG Growth



2018 NGV Fuel Use

In 2018, **32%**, of all on-road fuel used in natural gas vehicles was RNG



- Total NGV Fuel Use **645 Million GGE**
- RNG Component **204 Million GGE**

Over the last five years, RNG use as a transportation fuel has increased **577%**, displacing **7+ million tons** of carbon dioxide equivalent (CO₂e).

Note: GGE = gasoline gallon equivalent. EGE = ethanol gallon equivalent. EGE units are converted to GGE using a 0.67 multiplier (77,000 Btu/115,000 Btu). Total Natural Gas in Transportation Figure derived from U.S. EIA's Annual Energy Outlook (2019). RNG numbers derived from U.S. EPA RFS Reporting. Total greenhouse gas emissions and associated carbon dioxide equivalent (CO₂e) metric tons identified using the California Air Resources Board's Low Carbon Fuel Standard carbon intensity scores as well as the U.S. DOE's Argonne National Laboratory Heavy-Duty Vehicle Emission Calculator.

Put into Perspective, RNG as a Transportation Fuel is ...



Lowering greenhouse gas emissions equivalent to removing **1,539,565** gasoline passenger cars from our roads for one year



Reducing CO₂ emissions equivalent to **815,950,377** gallons of gasoline or **712,313,458** gallons of diesel consumed.



That's equal to the total energy used by **868,321** U.S. homes for one year



Avoiding greenhouse gas emissions equivalent to running **1,537** wind turbines for one year



or replacing **275,434,003** traditional lightbulbs with LEDs



Sequestering carbon equal to growing **119,902,624** tree seedlings for ten years



or **8,534,274** acres of U.S. forests for one year

Note: Assumes 7,251,351 metric tons of CO₂e reduced over last five years through increased RNG usage calculated using CARB's LCFS carbon intensity numbers. GHG equivalency results calculated using the U.S. EPA's calculator.

THE COALITION FOR
**RENEWABLE
NATURAL GAS**

This 2018 on-road RNG use report was issued by NGV America and the Coalition for Renewable Natural Gas, April 2019.

Find out more at
RNGCoalition.com or NGVAmerica.org.

NGV AMERICA

Natural Gas Vehicles for America