

Decarbonizing California

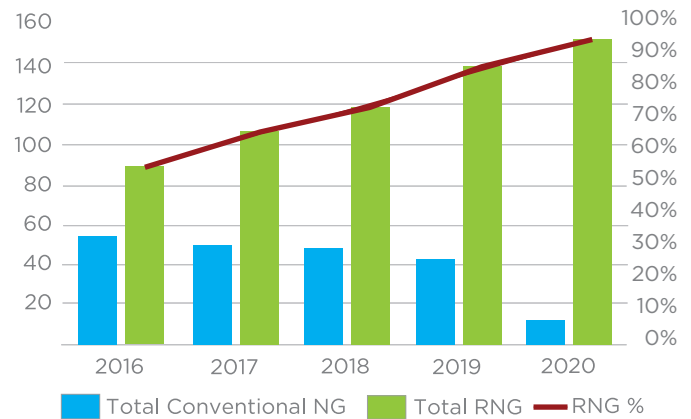
with Renewable Natural Gas Transportation



For the first time ever, California fleets fueled with in-state bio-CNG were **carbon-negative for 2020**, based on an annual average carbon intensity score of **-5.845 gCO₂e/MJ**, the lowest of any motor fuel in use including renewable electricity. Biomethane sourced from dairy digesters, local landfills, wastewater treatment plants, commercial food waste facilities, and agricultural operations provides the most affordable and proven solution to decarbonize medium- and heavy-duty transportation today.

Note: California Air Resources Board (CARB), LCFS Pathway Certified Carbon Intensities.

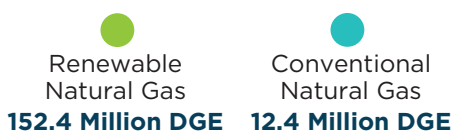
RNG Growth in California in Diesel Gallon Equivalents (DGEs)



Making a real difference...

2020 CA NGV Fuel Use 164.8 Million DGE Total

In 2020, **92%** of all on-road fuel used in natural gas vehicles in California was RNG









Note: total 2020 on-road motor fuel use volumes in California were lower than 2019 volumes due to COVID pandemic impacts.

RNG use as a transportation fuel in California has increased **177%** over the last five years. In 2020 alone, **1.83** million tons of carbon dioxide equivalent (CO₂e) was displaced.

Note: DGE = diesel gallon equivalent. Natural gas figures from CARB's Local Carbon Fuel Standard Reporting Tool Quarterly Summary at <https://ww3.arb.ca.gov/fuels/lcfs/lrtqsummaries.htm>. Greenhouse gas emissions and associated carbon dioxide equivalent (CO₂e) metric tons calculated from data reported under CARB's Low Carbon Fuel Standard program using RNG carbon intensity values of -5.845 for bio-CNG and 54.94 for bio-LNG based on 2020 annual averages and then adjusted for energy efficiency rating (EER).

Put into Perspective, California's use of RNG as a Transportation Fuel Last Year...

 Lowered GHG emissions equivalent to 4,593,806,532 miles driven by the average passenger car	 That's equal to 7,002,753 trips along the Pacific Coast Highway (SR1)	 Reduced CO ₂ emissions equal to 205,679,419 gallons of gasoline consumed	 or the energy use of 220,118 CA homes in one year	 Sequestered carbon equal to growing 30,224,267 tree seedlings for ten years	 or 2,239,469 acres of CA forests for one year
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Note: Assumes 1,827,873 metric tons of CO₂e reduced in 2020 through increased RNG usage calculated using CARB's LCFS carbon intensity numbers. GHG equivalency results calculated using the U.S. EPA's calculator. CA State Route 1 length calculated at 656 miles.

Report produced June 2021 by:



Supporting Partners:



CALIFORNIA NATURAL GAS VEHICLE PARTNERSHIP



California Natural Gas Vehicle Coalition