

Decarbonizing California

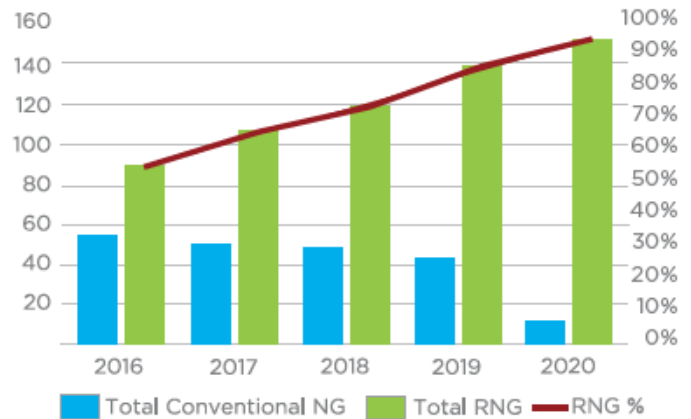
with Renewable Natural Gas Transportation



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)

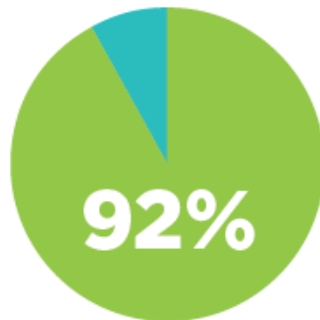


Making a real difference...

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

● Renewable Natural Gas **152.4 Million DGE**
● Conventional Natural Gas **12.4 Million DGE**



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://www3.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 CO₂ 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

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.

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NGVAMERICA
Natural Gas Vehicles for America



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CALIFORNIA NATURAL GAS VEHICLE PARTNERSHIP



California Natural Gas Vehicle Coalition