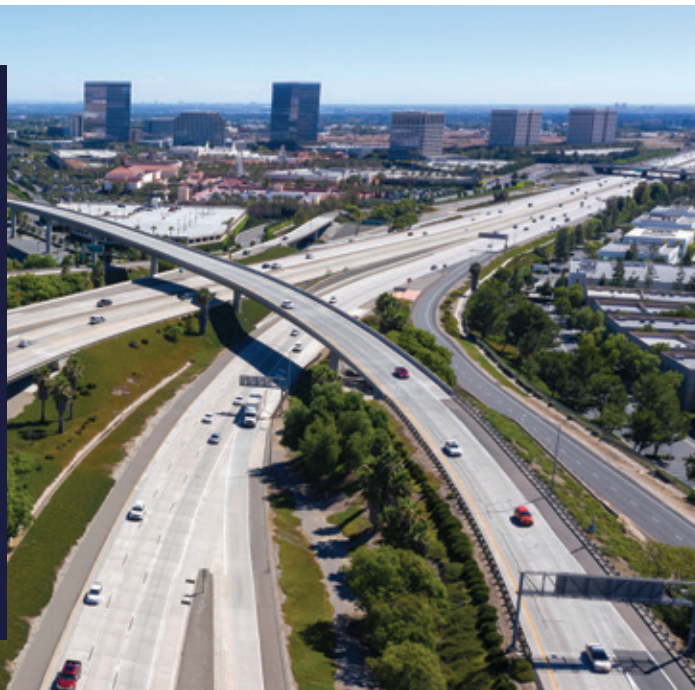


# Decarbonizing California Fleets

## with Renewable Natural Gas Transportation

For the fourth consecutive year, California fleets fueled with in-state bio-CNG were **carbon-negative in 2023**, based on an annual average **carbon intensity score of -126.42 gCO<sub>2</sub>e/MJ**. 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: gCO<sub>2</sub>e/MJ = grams of carbon dioxide equivalent per megajoule of energy. Data from California Air Resources Board (CARB) Low Carbon Fuel Standard (LCFS) Reporting Tool Quarterly Summaries



**The only motor fuel with negative carbon intensity**



*Fuel Up on Fact:*

At -126.42, bio-CNG holds the lowest average carbon intensity of any clean fuel option on California's roadways today and is the only fuel with a negative carbon intensity

Note: Data from CARB LCFS Reporting Tool Quarterly Summaries (calculated weighted average)



### CA LCFS 2023 Renewable Fuels Average CI Score (gCO<sub>2</sub>e/MJ)



Note: Baseline conventional diesel carbon intensity = 100.45. Data from CARB's LCFS Reporting Tool Quarterly Summaries

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# Decarbonizing California Fleets

## with Renewable Natural Gas Transportation

### By the numbers...



RNG use as a transportation fuel in California has increased **46%** over the last five years.

In 2023 alone, California's RNG motor fuel use resulted in the displacement of **5.3 million metric tons** of carbon dioxide equivalent (CO<sub>2</sub>e) emissions.



RNG use in 2023 accounted for **over 23% of all the emission reductions** generated by motor fuels or 17% of all credits generated under the program including credits for on-road and off-road electric use, electric infrastructure, and refinery improvements.

RNG's 2023 GHG emissions reductions are the equivalent of removing **1,267,484 gasoline-powered cars** from California roadways for one year.

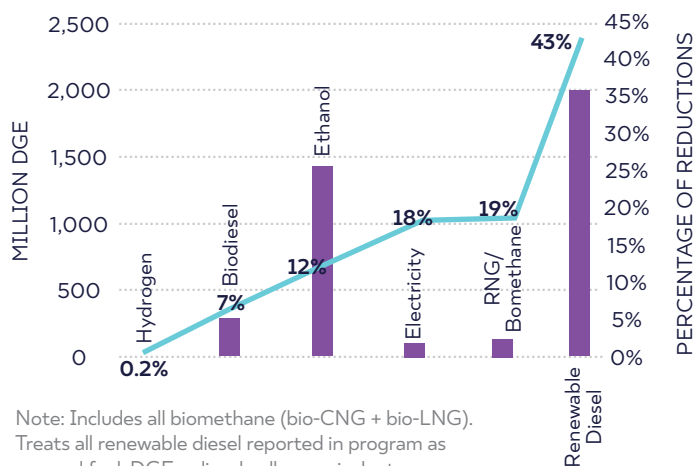


Note: Natural gas volumes and emission reductions calculated using figures available from CARB LCFS Reporting Tool Quarterly Summaries

### Packing a big punch

While RNG made up just **5.1%** of all on-road alternative fuels dispensed by volume, it generated **19.2%** of all CO<sub>2</sub>e reductions of on-road alternative fuels reported under the California LCFS in 2023.

### 2023 On-Road Alternative Fuels Volumes & Emission Reductions

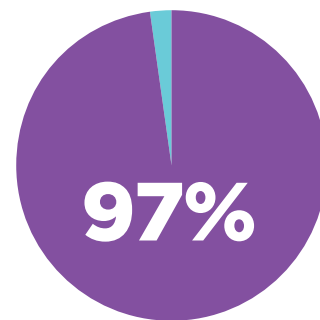


Note: Includes all biomethane (bio-CNG + bio-LNG). Treats all renewable diesel reported in program as on-road fuel. DGE = diesel gallon equivalent. Data from CARB LCFS Reporting Tool Quarterly Summaries

### Sustainable and available

Renewable Natural Gas  
**203.10 Million DGE**

Conventional Natural Gas  
**6.80 Million DGE**



### 2023 CA NGV Fuel Use

**209.90 million DGE total**

In 2023, 97% of all on-road fuel used in natural gas vehicles in California was RNG

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