

# Decarbonize California with Renewable Natural Gas

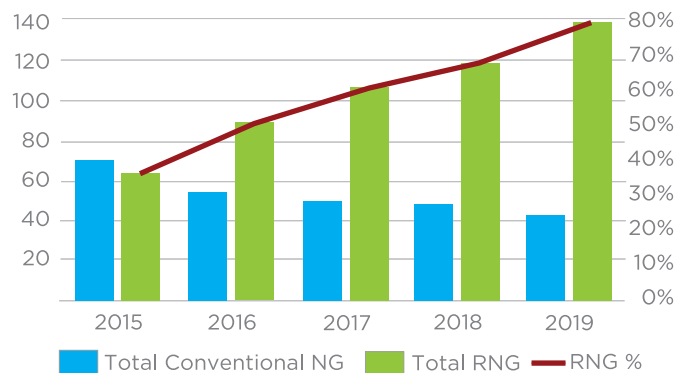
Affordable and proven natural gas vehicle technology fueled with biomethane (RNG) collected at local landfills, wastewater treatment plants, commercial food waste facilities, and agricultural digesters can yield a carbon-negative lifecycle emissions result. Since 2016, RNG has displaced conventional natural gas as the overwhelmingly dominant on-road NGV fuel source in California.

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



## CALIFORNIA REPUBLIC

### RNG Growth in California in DGEs



## Already making a difference...

### 2019 CA NGV Fuel Use

**181.3 Million DGE Total**

In 2019, **77%**, of all on-road fuel used in natural gas vehicles in CA was RNG



RNG use as a transportation fuel in California has increased **210%** over the last five years, displacing over **4.2** million tons of carbon dioxide equivalent (CO<sub>2</sub>e).

Note: DGE = diesel gallon equivalent. Natural gas figures from CARB's Low 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 (CO<sub>2</sub>e) metric tons calculated from data reported under CARB's LCFS program using an RNG carbon intensity value of 33.895 g/mj.

### Put into Perspective, California's use of RNG as a Transportation Fuel is ...



Lowering GHG emissions equivalent to **10,496,004,963** miles driven by the average passenger car



That's equal to **16,000,007** trips along the Pacific Coast Highway



Reducing CO<sub>2</sub> emissions equal to **475,963,767** gallons of gasoline consumed



That's equal to the total amount of fuel used by **488,102** homes in one year



Sequestering carbon equal to growing **69,942,127** tree seedlings for ten years



or **5,524,040** acres of CA forests for one year

Note: Assumes 4,229,890 metric tons of CO<sub>2</sub>e reduced over the 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. CA State Route 1 length calculated at 656 miles.

Report produced June 2020 by:

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Natural Gas Vehicles for America



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