

GAME CHANGER

THE BEST WAY TO MEET CALIFORNIA'S 2030 AND 2050 EMISSIONS REDUCTION GOALS TODAY:
NEAR-ZERO HEAVY-DUTY NATURAL GAS TRUCKS FUELED BY RENEWABLE NATURAL GAS (RNG)

NEAR ZERO EMISSIONS
NATURAL GAS ENGINE

> 90% reduction
in NOx (smog-forming) emissions

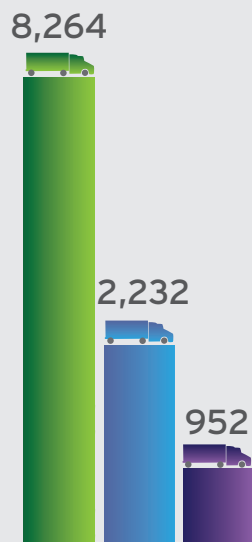


RENEWABLE NATURAL GAS
AS TRANSPORTATION FUEL

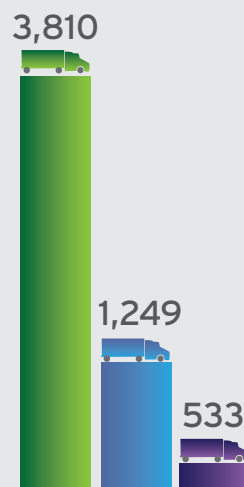
> 80% reduction
in greenhouse gas emissions

HOW MUCH CAN \$500 MILLION DO FOR OUR AIR AND ENVIRONMENT?

Number of Trucks Incentivized

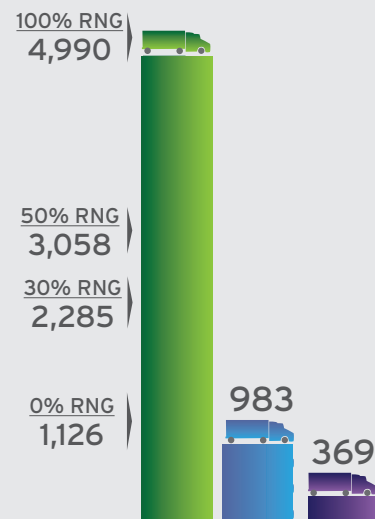


Smog-Forming
Emissions Reductions*




*Compared to Baseline Diesel (weighted tons)


Greenhouse Gas (GHG) Reductions[†]



[†]Compared to Baseline Diesel (thousand MT CO₂e)

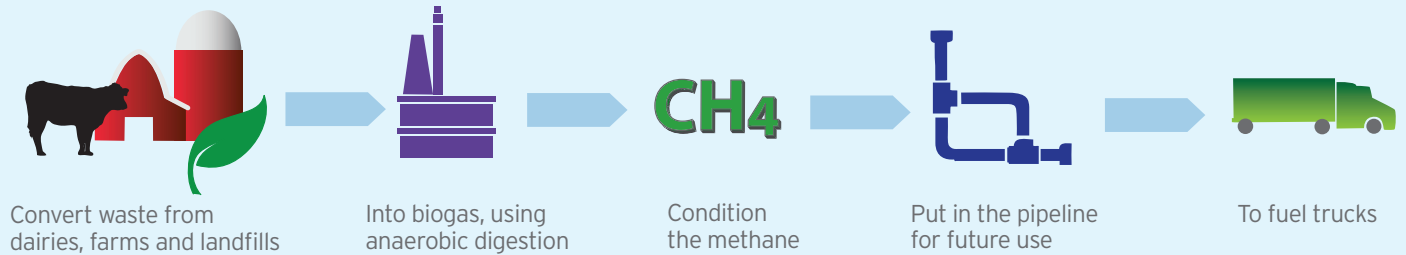
 **Natural Gas Vehicle (NGV)**
Commercially available in 2016

 **Electric HD Truck CA Grid**
California Air Resources Board projects commercial availability in 2030[†]

 **Fuel Cell HD Truck - 33% RH2**
[†]ARB Technology Assessments 2015

For more information, visit NGVGameChanger.com

CREATING RENEWABLE NATURAL GAS



Renewable Natural Gas is 13X More Cost-Effective Than Fuel Cell Trucks

Cost-Effectiveness of GHG Emissions Reductions Per Metric Ton CO₂e

This technology is available to help meet California's goals TODAY!

\$100

RNG NEAR-ZERO

\$444

COMPRESSED NATURAL GAS NEAR-ZERO

This technology will not be commercially available until 2030.[†]

\$509

ELECTRIC HD TUCK CA GRID

\$1354

FUEL CELL HD TRUCK 33% RENEWABLE HYDROGEN

[†]ARB Technology Assessments 2015

**NGVs
FUELED
BY RNG**

**REDUCE NO_x
REDUCE GHG EMISSIONS
INCREASE DEMAND FOR RNG**

Compared to electric vehicle technologies, which can at best provide zero carbon emissions, RNG sourced from dairy, food and green waste is **carbon-negative** – **removing more carbon from the atmosphere than it produces.**

One dairy-sourced RNG fueled truck has **6X the greenhouse gas benefit** of one plug-in electric vehicle.

Many fleets have already embraced RNG. In fact, according to the California Air Resource Board's latest Low Carbon Fuel Standard report, **more than half of the natural gas used in California vehicles is RNG.**

California has an opportunity to put organic waste to beneficial use, meet waste reduction goals and reduce GHG emissions by converting this waste to **carbon-negative RNG for transportation fuel.**

Putting more clean heavy-duty natural gas trucks on California's roads is the fastest and most cost-effective means to **accelerate RNG production.**

For more information, visit NGVGameChanger.com