

EESI / American Biogas Council Briefing The Benefits of Leveraging Renewable Natural Gas (Biogas) as a Transportation Fuel



May 22, 2019

A  Love's Company

The Love's Family of Companies



- Founded 1964, headquarters in Oklahoma City
- 475 travel stops in 41 states, 22k employees



- 750+ trucks – fueled by RNG, biodiesel and renewable diesel
- Delivery of fuel and other products to Love's stores nationwide



- Commodity supply, trading, and logistics
- Supply gasoline, diesel, ethanol, DEF, biodiesel & renewable diesel



- Alternative fuels: RNG, hydrogen, solar & EV charging
- Turn-key engineering, construction, operations & maintenance
- On-site power generation with energy storage solutions

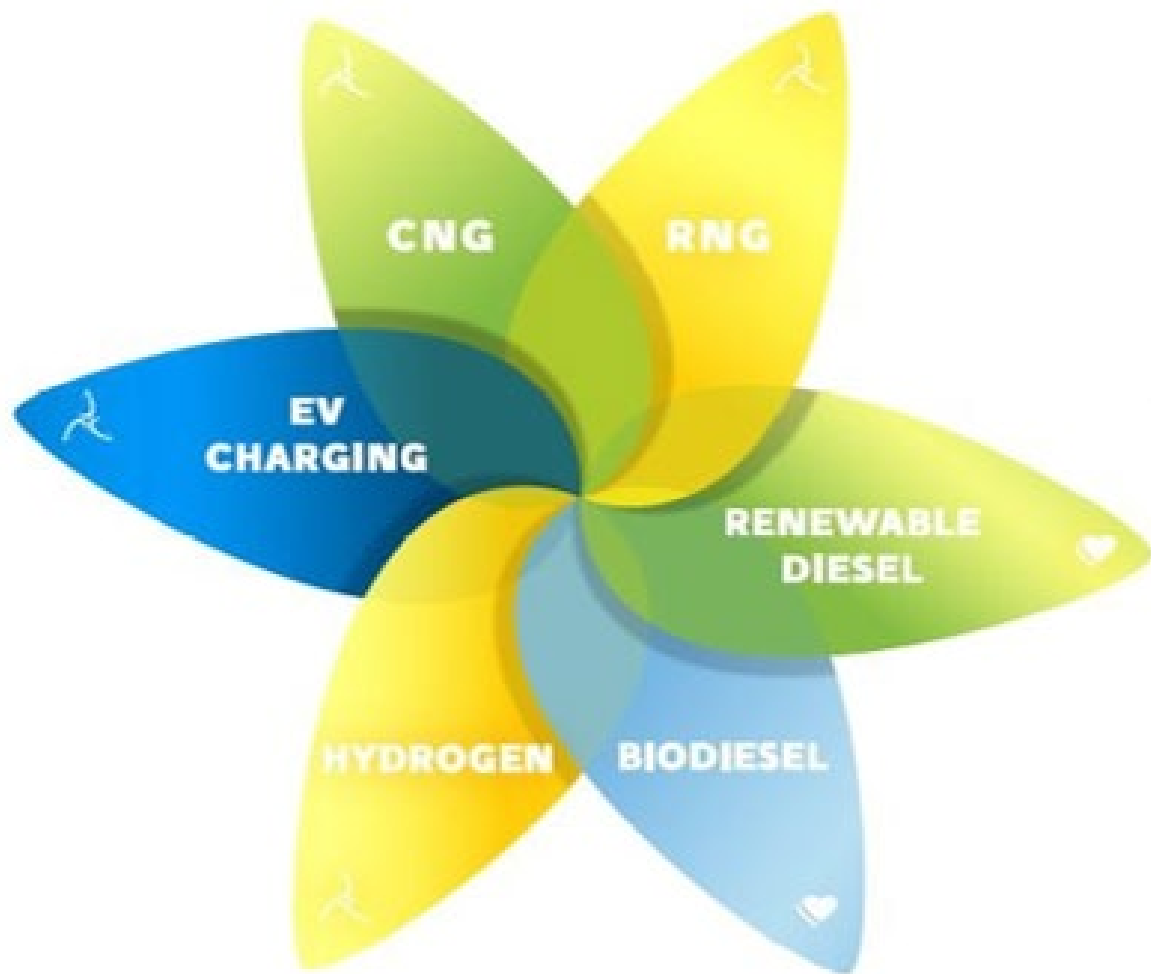


- Inspection & preventative maintenance services heavy-duty trucks
- 52 nationwide service stations and 25+ years experience

Alternative Fuel Specialists

Trillium is focused on building low-carbon transportation infrastructure.

We work with our clients to identify the fuel and power supply sources that work best for their goals and objectives, balancing cost, reliability, deployment schedule, sustainability goals, location, and scale.



Renewable Natural Gas (RNG)



RNG is the perfect alternative fuel

It turns our waste into hydrogen, electricity, LNG and CNG

An American Fuel

Sourced by American Labor using American Technology



50

Renewable natural gas is produced in every U.S. state. 34 states produce geologic natural gas



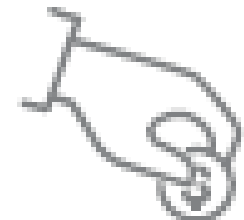
4.1 million

4.1 million natural gas industry jobs nationwide



#1

America is the world's leader in natural gas production and technology



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Natural gas fueling pays into the federal highway trust fund

RNG is the most versatile alternative transportation fuel.

RNG Growth



RNG as a transportation fuel is...



Lowering greenhouse gas emissions equivalent to removing **1,539,565** gasoline passenger cars from our roads for one year



Reducing CO₂ emissions equivalent to **815,950,377** gallons of gasoline or **712,313,458** gallons of diesel consumed.



Sequestering carbon equal to growing **119,902,624** tree seedlings for ten years



or **8,534,274** acres of U.S. forests for one year

This assumes RNG production has reduced 7,251,351 metric tons of CO₂e in the last 5 years

In 5 years RNG use has increased 577% displacing over 7+ million tons of CO₂

The RNG engine technology (r)evolution

ISL G NZ (8.9L)

Now CARB & EPA Certified to
90% below existing standard



2016

ISB6.7 G (6.7L)

To be CARB & EPA Certified to
50% below existing standard



2017

ISX12 G NZ (11.9L)

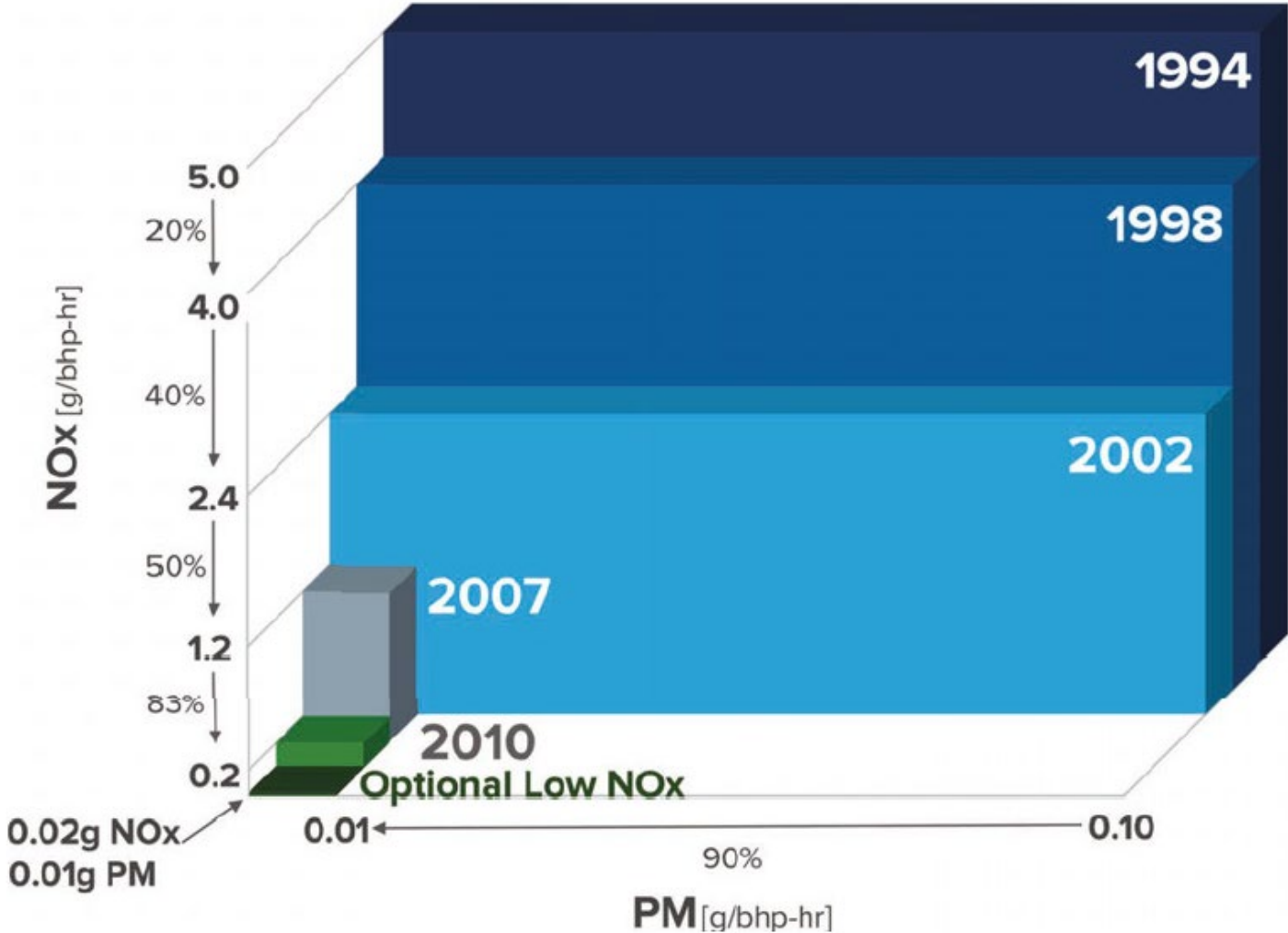
To be CARB & EPA Certified to
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2018

*Information provided by Cummins Westport

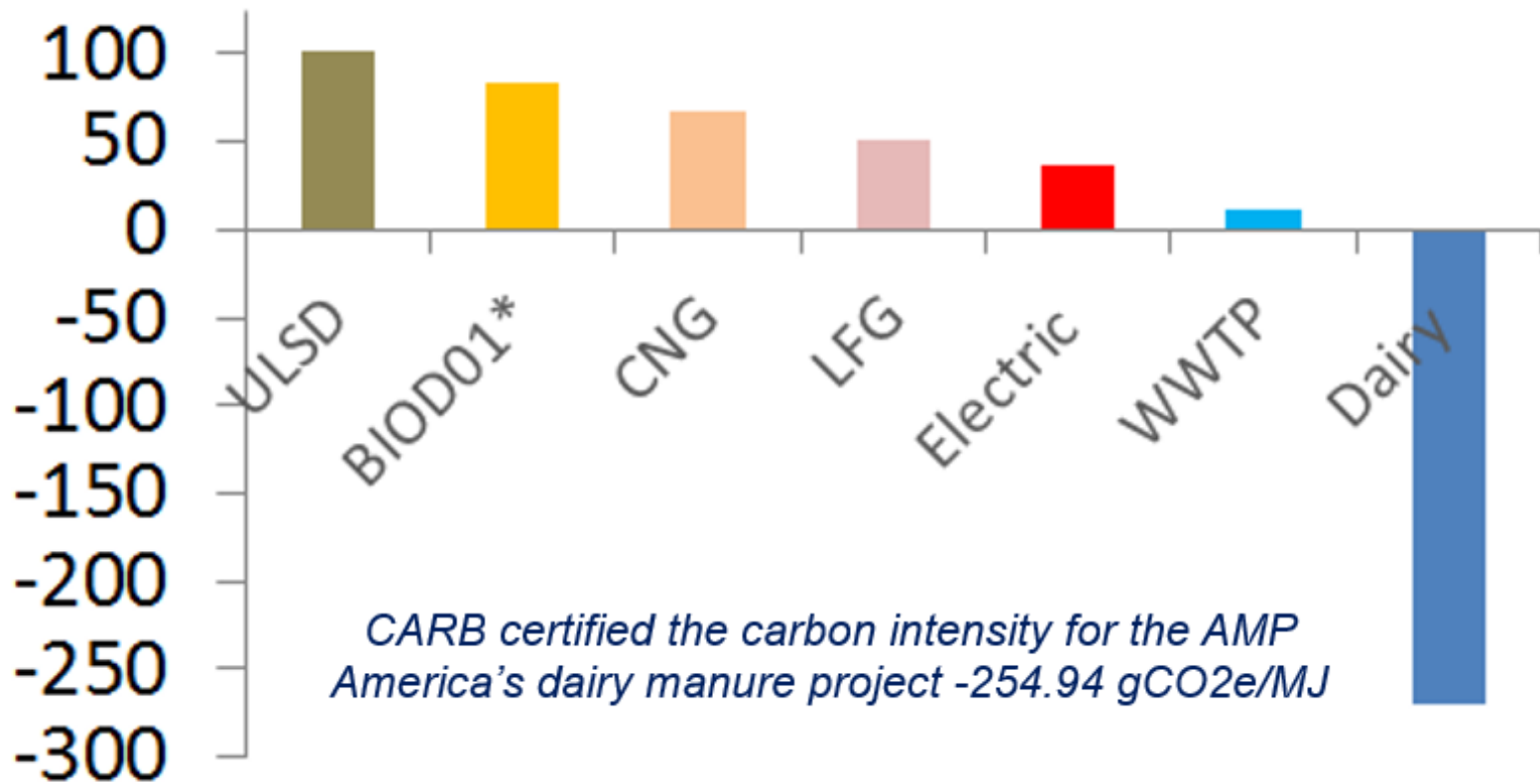
NZ Technology Perspective



1,000 trucks (2019) emit the same amount of NOx as ONE (1) truck from 1987

Fuel carbon intensity includes lifecycle

Carbon Intensity Transportation Fuels



The lower the carbon intensity, the cleaner the fuel.

Thank you

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