



# Advancements in engines, powertrains and batteries

## RNG solutions for today's heavy-duty fleet operation

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EVP Sales and Systems Development

# Hexagon – A global leader in clean energy storage and solutions



38%  
Equity



## (Renewable) Natural Gas



Mobility

## Hydrogen and battery-electric solutions



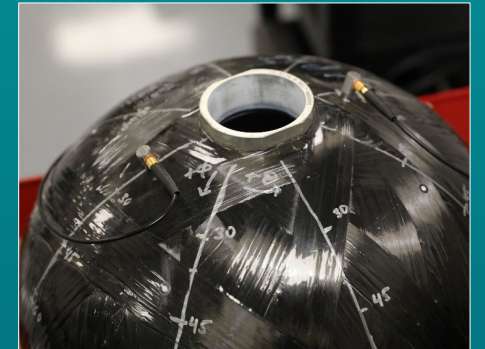
Mobility

## LPG cylinders



Home, leisure and small  
industrial applications

## Cylinder testing and monitoring technology



Serves the compressed  
gas and pressure vessel  
industries



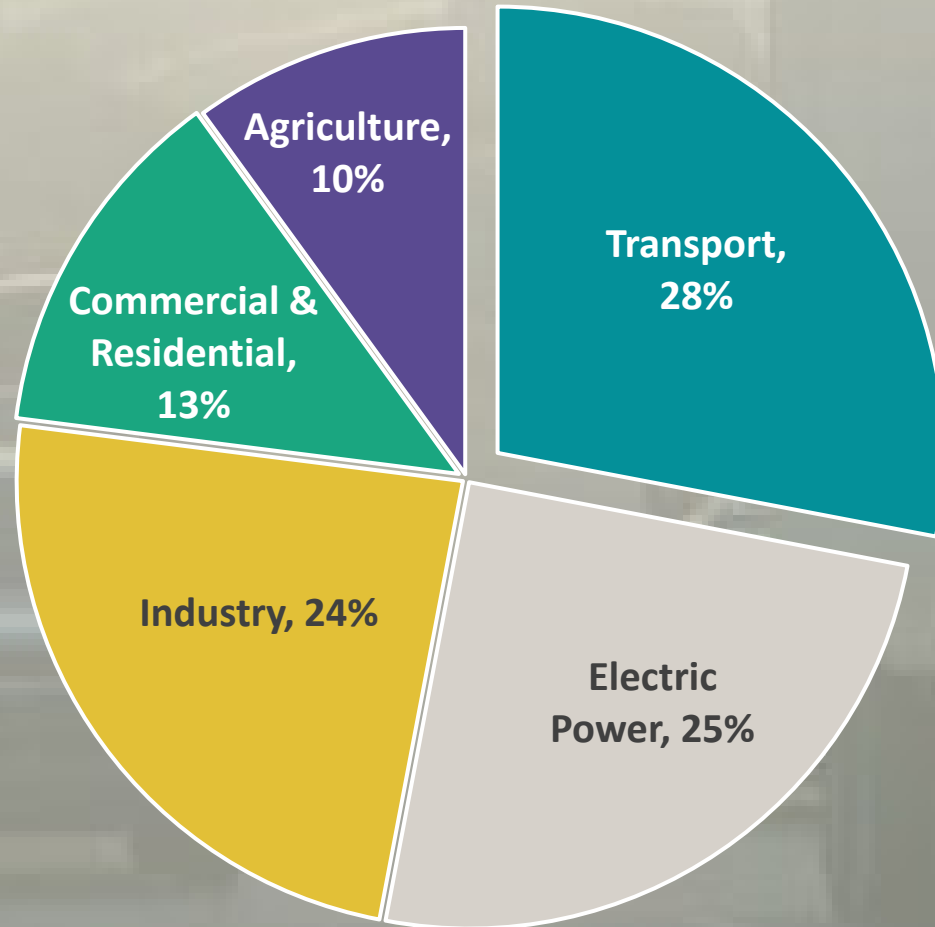
Gas infrastructure



Gas infrastructure

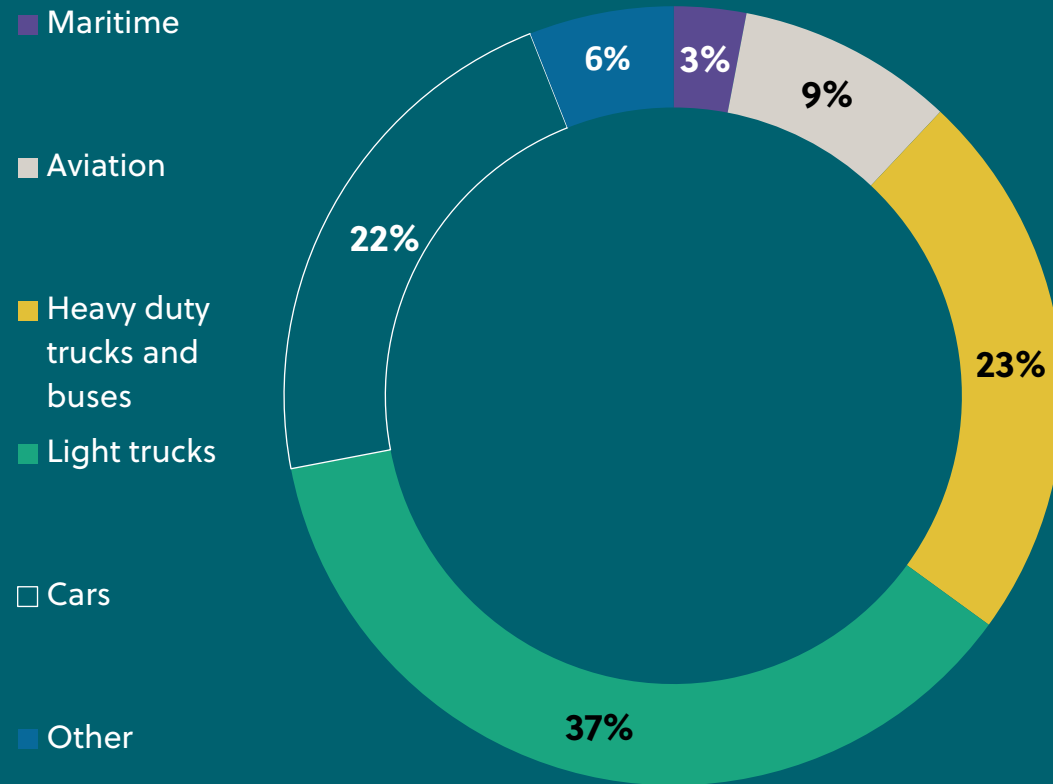
70,000 Commercial vehicle globally with Hexagon energy storage solutions

## Transportation sector is the highest emitter of GHG in North America



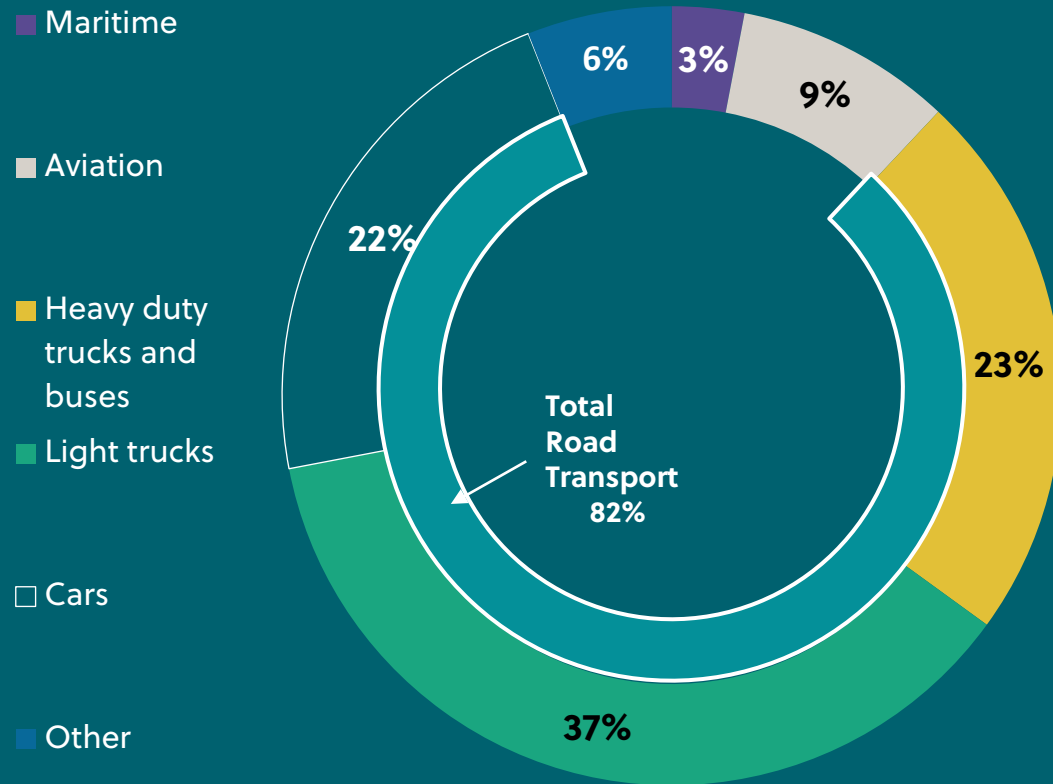
Sources of Greenhouse Gas Emissions | US EPA

# Breaking down the transport sector CO2 emission contributors



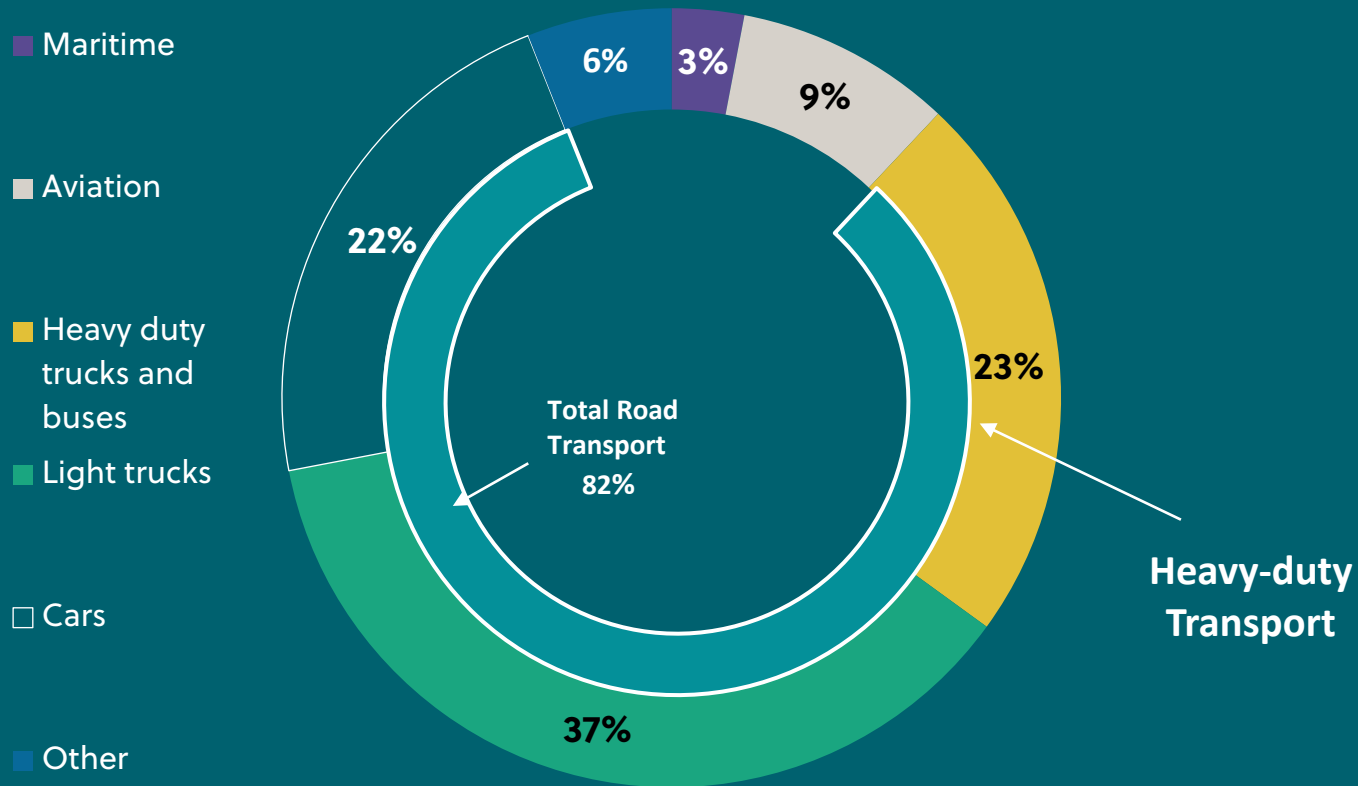
Source: EPA.gov

# Road transport comprises 82% of total transport emissions



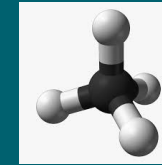
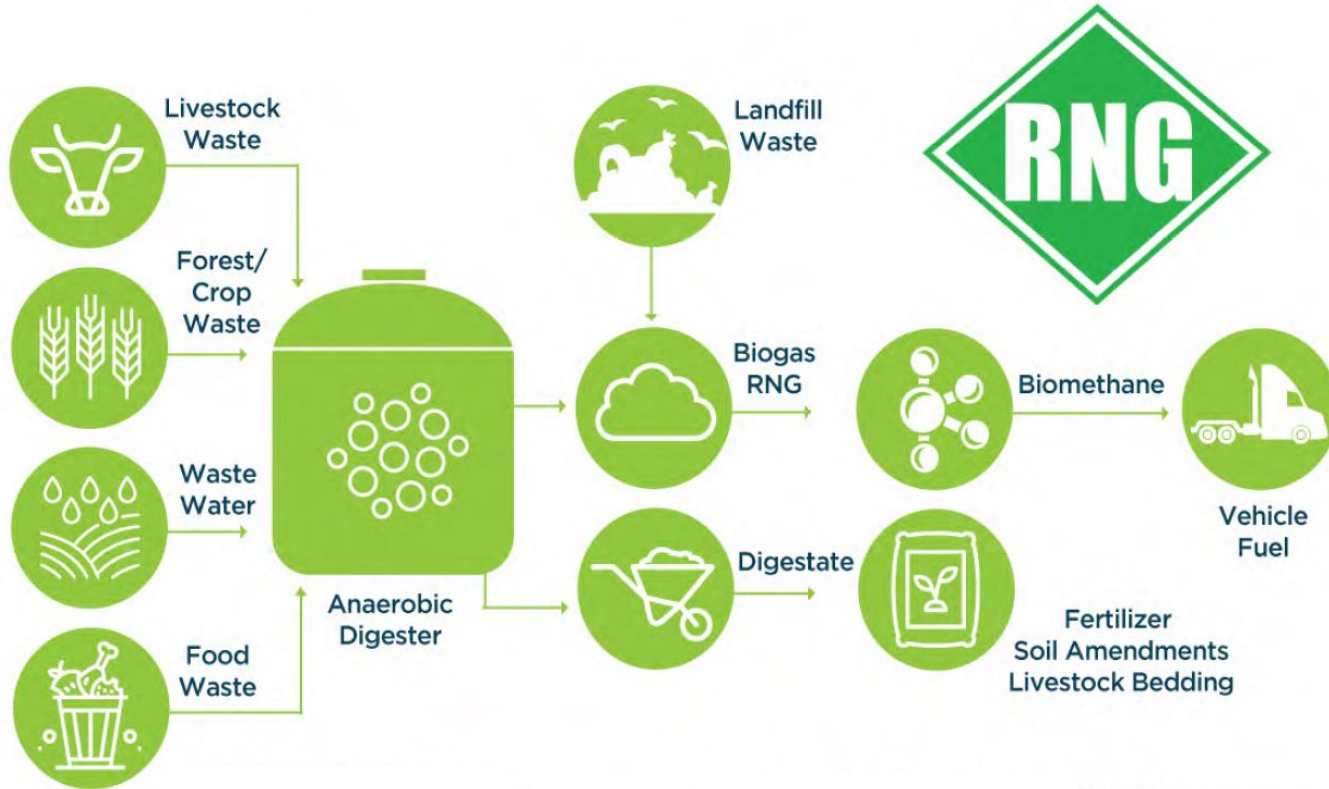
Source: EPA.gov

# On a per vehicle basis HD trucks are the highest emitters



Trucks are high emitters of GHG  
1 truck equivalent to 20 cars

# How is waste converted to RNG?



Production of RNG involves the capture of methane from escaping into atmosphere

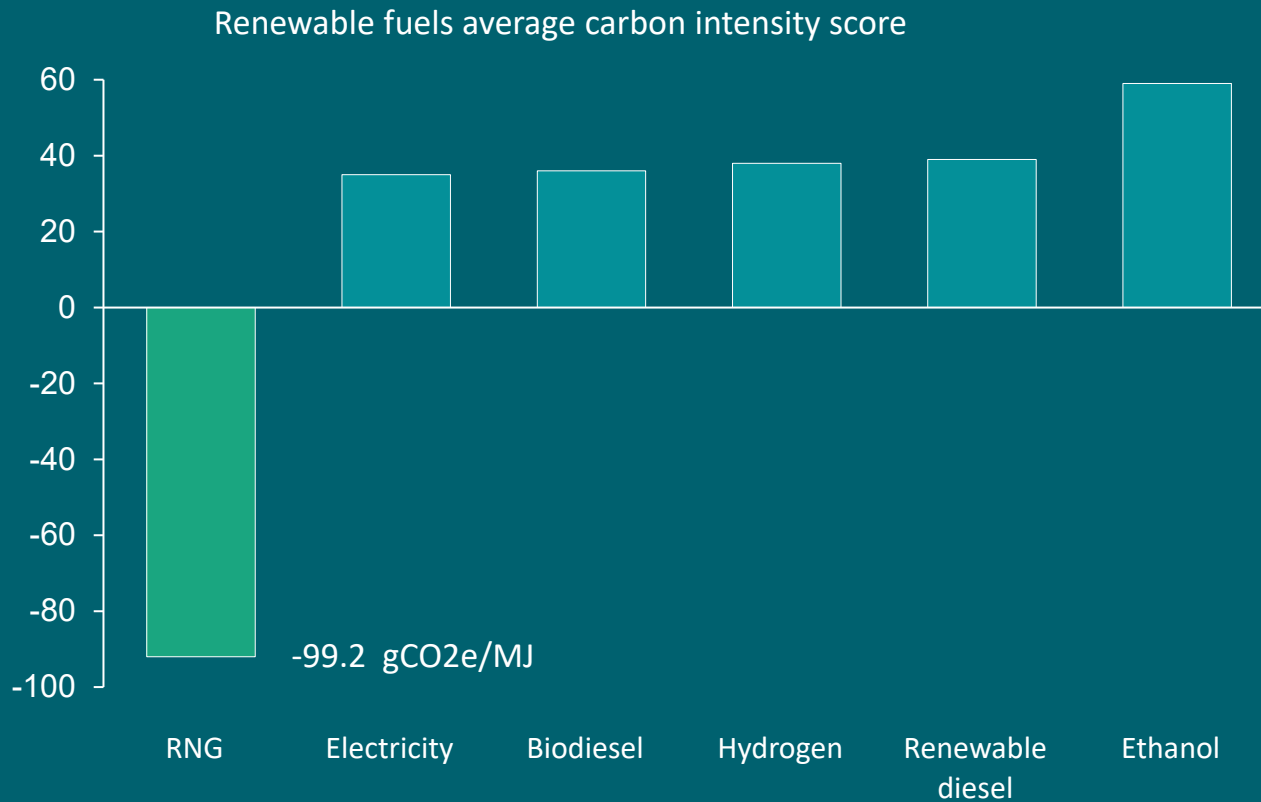


RNG and geologic natural gas can be blended at any mix ratio without impact in performance but with reduction in pure RNG CI score



Natural gas transport vehicles can run RNG, geologic natural gas or blended gas without modification

# RNG is the only carbon negative clean energy solution that is available today



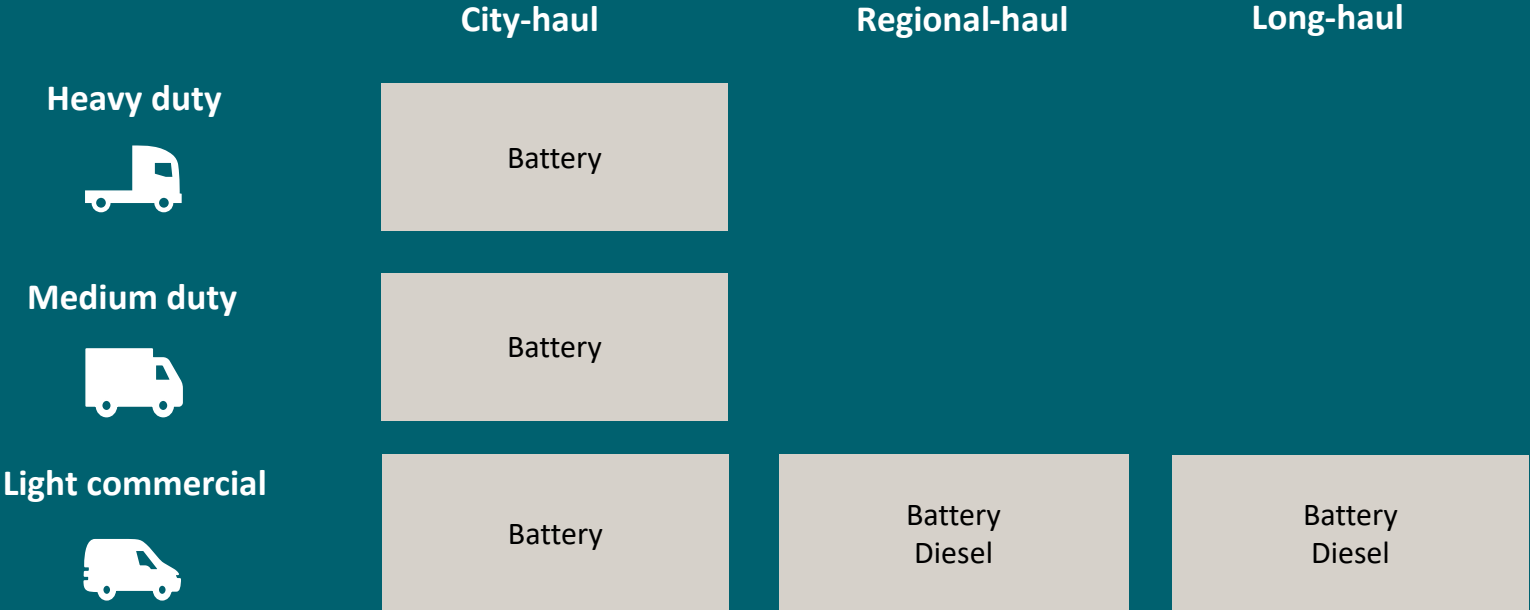
Diesel 100

*Carbon intensity can be defined as a fuel's lifecycle, or well-to-wheel, greenhouse gas emissions per unit of transportation energy delivered.*

*It's important to note that a CI score accounts for lifecycle emissions, not just those that are emitted when a fuel is used by the transportation sector.*



# We believe there will be multiple clean energy solutions required to meet the 2030 emission reduction targets






Use case split by segment

■ Niche market position for ICE-RNG

■ Key market position for ICE-RNG

# As payloads increase and longer routes are required clean energy solutions with higher energy density are required

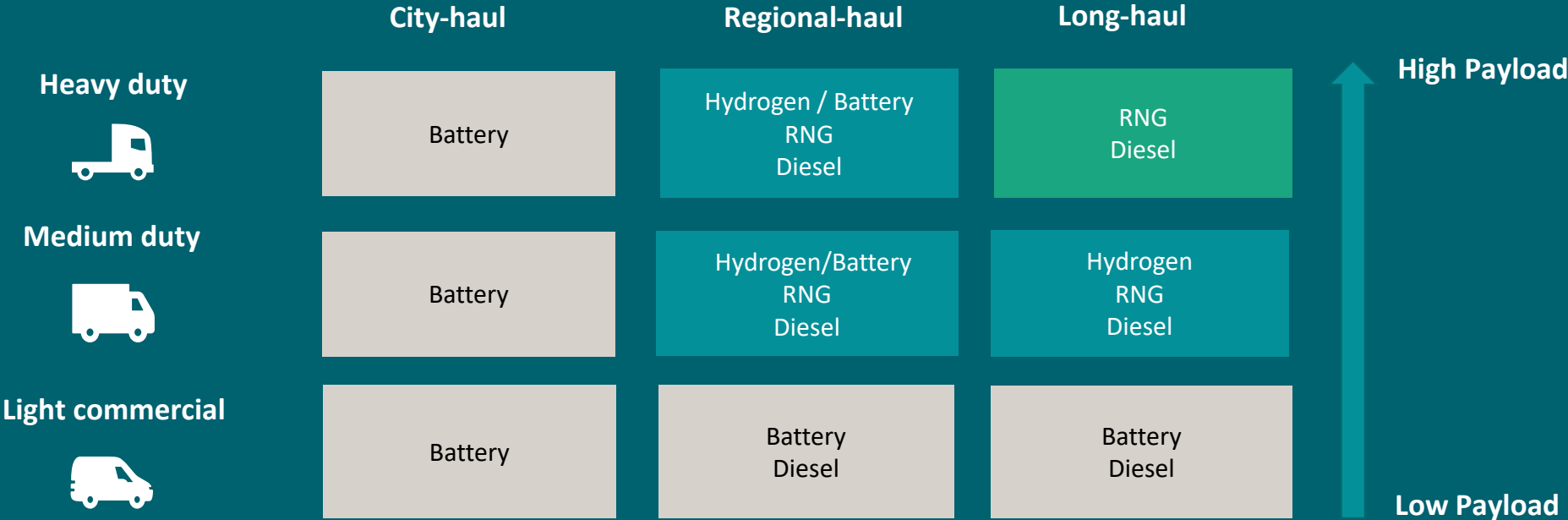
	City-haul	Regional-haul	Long-haul
<b>Heavy duty</b> 	Battery	Hydrogen/Battery RNG Diesel	
<b>Medium duty</b> 	Battery	Hydrogen/Battery RNG Diesel	Hydrogen RNG Diesel
<b>Light commercial</b> 	Battery	Battery Diesel	Battery Diesel

Use case split by segment

■ Niche market position for ICE-RNG

■ Key market position for ICE-RNG

# Today and for the foreseeable future RNG is the best clean energy solution for class 8 HD long haul trucking



Use case split by segment

■ Niche market position for ICE-RNG

■ Key market position for ICE-RNG

# The Game Changer

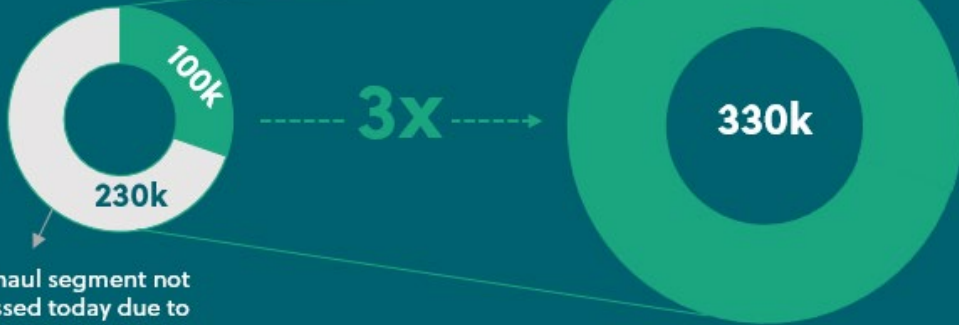
## Cummins X15N engine to be launched in 2024

US heavy-duty truck addressable market for natural gas solutions (# trucks sold per year)

Today

From 2024

■ Addressable market

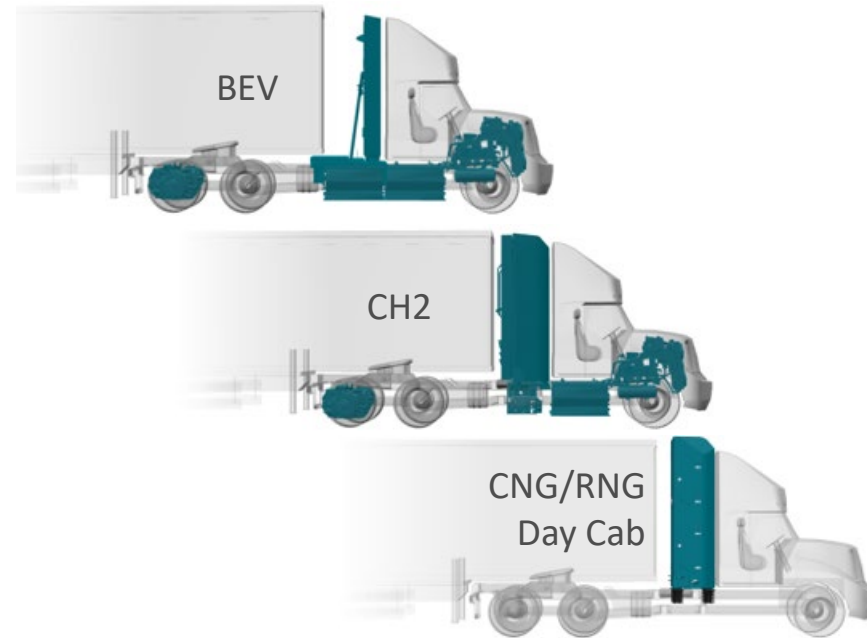


Long-haul segment not addressed today due to range requirement only offered by diesel

# NATURAL GAS

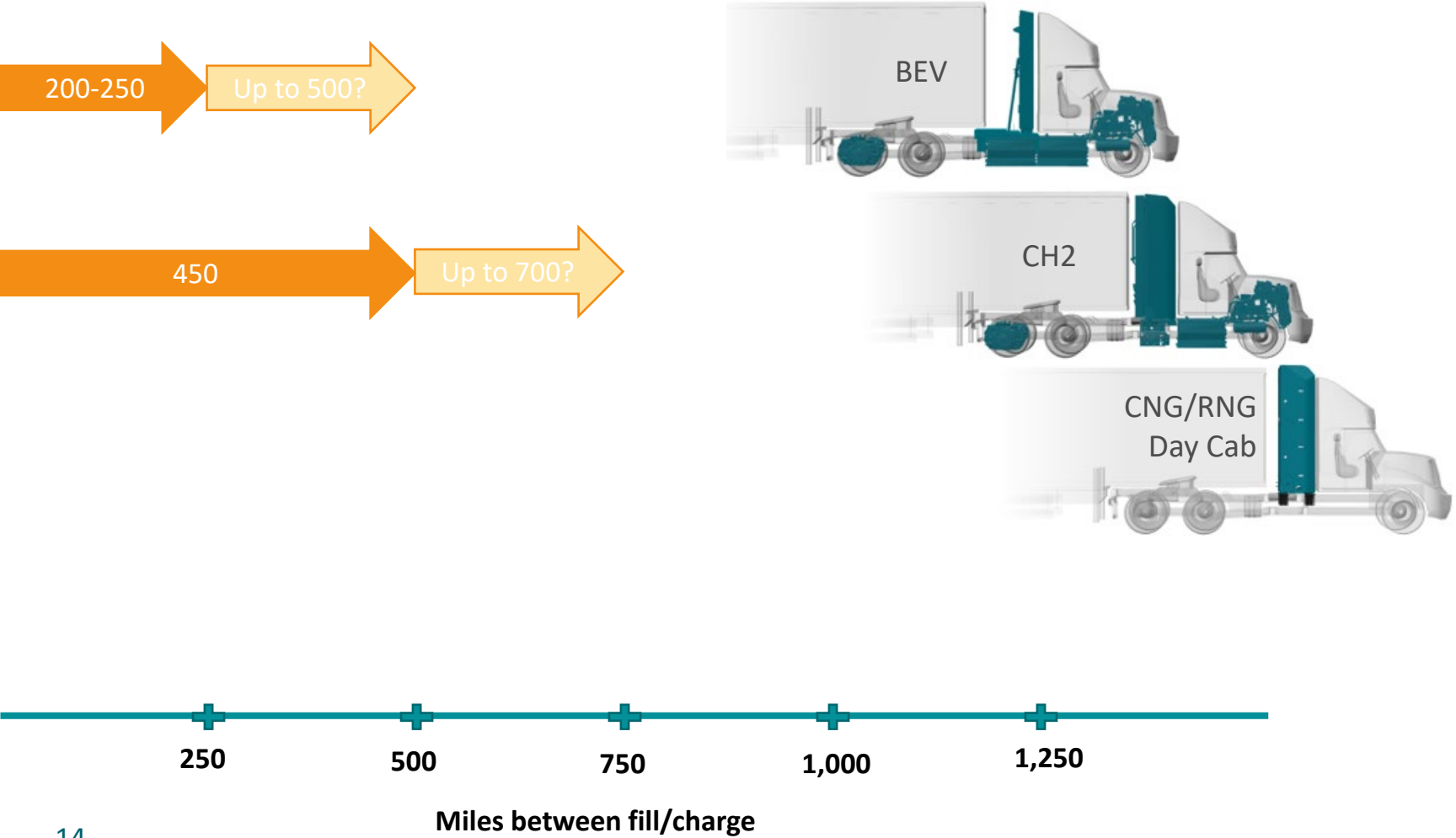
Destination **Zero**<sup>™</sup>

# Technology readiness coupled with operational feasibility limiting truly viable solutions for HD long-haul trucking

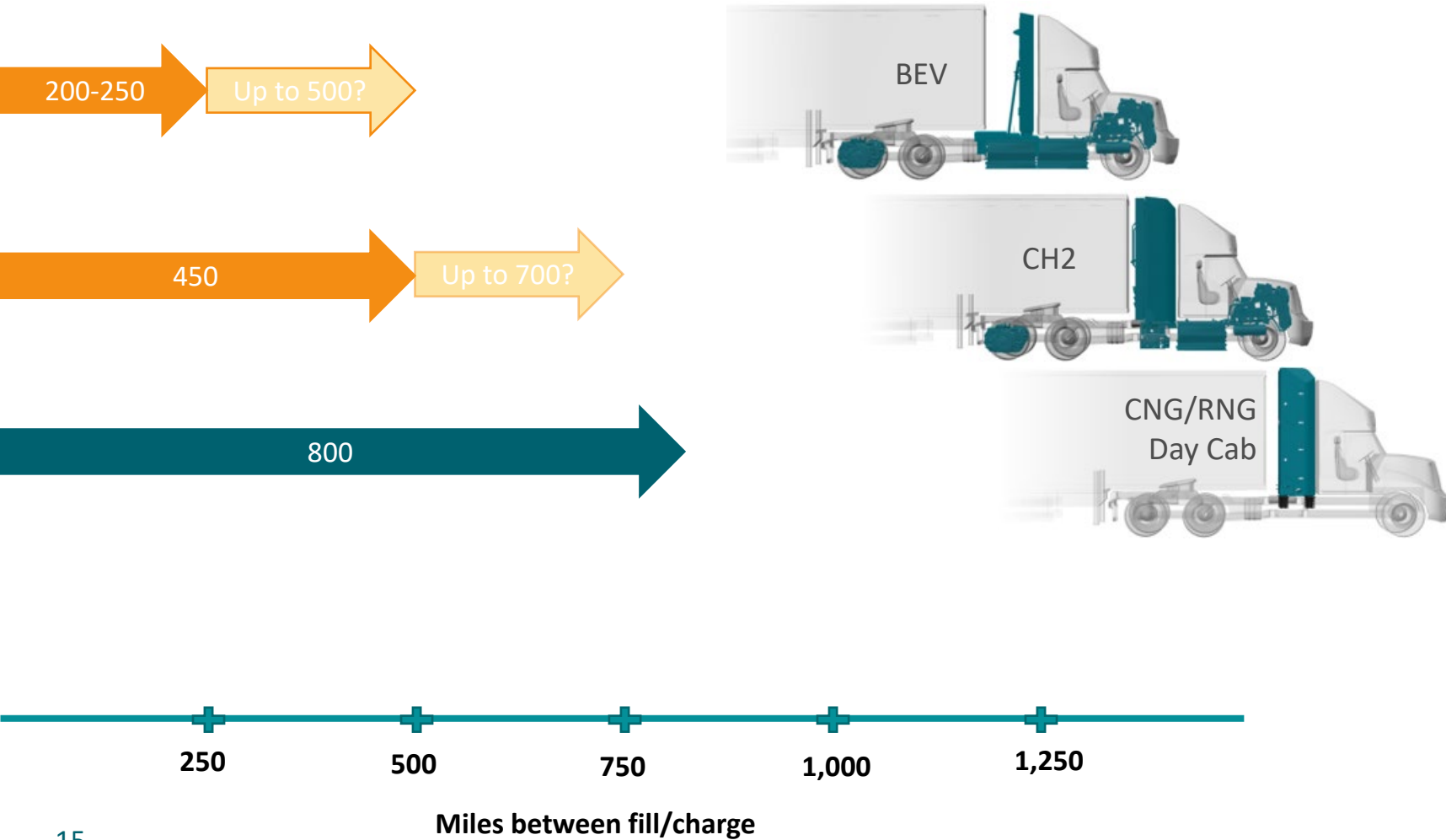


Miles between fill/charge

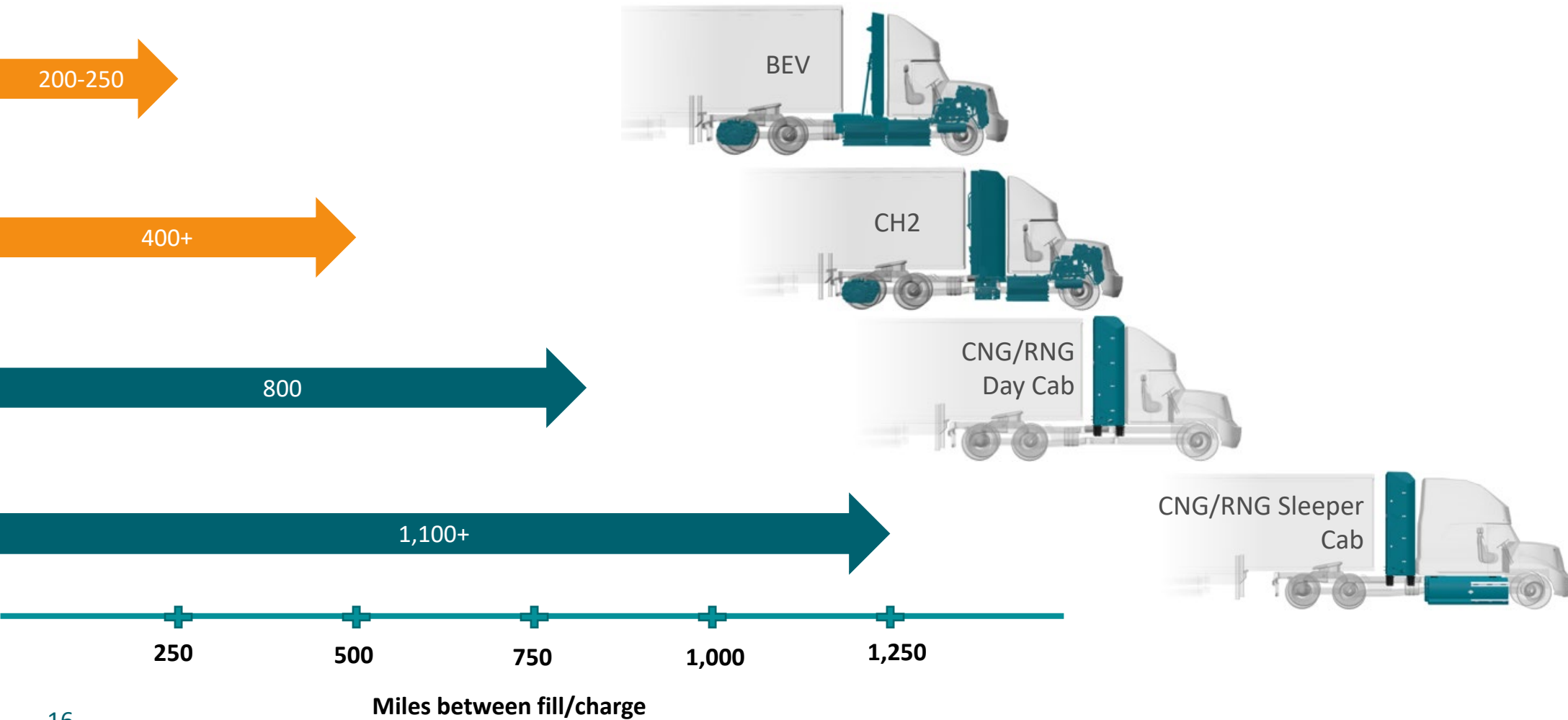
# Technology readiness coupled with operational feasibility limiting truly viable solutions for HD long-haul trucking



# Only one alternative fuel solution today allows heavy-duty long-haul fleets to adopt at scale and still meet fleet operational demands - RNG



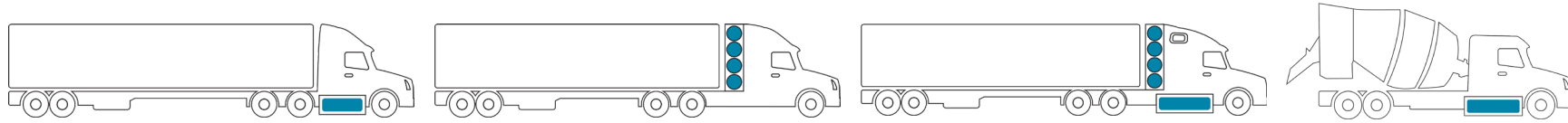
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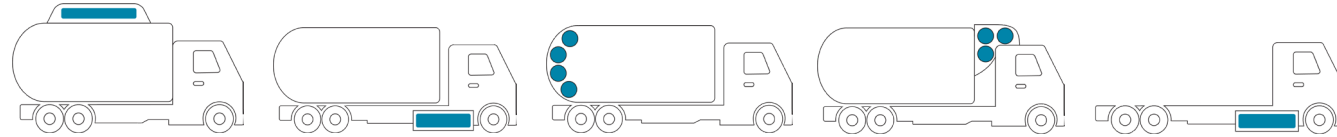


# Over 15 OEMs offer 100+ factory installed natural gas platforms

Heavy Duty Truck



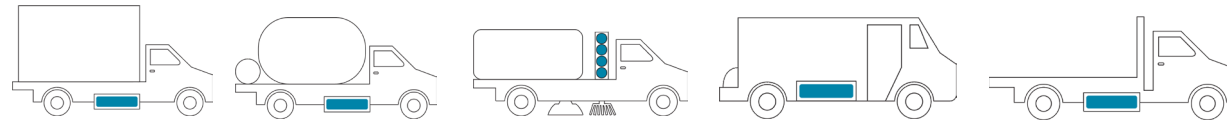
Refuse



Bus & Coach



Medium Duty



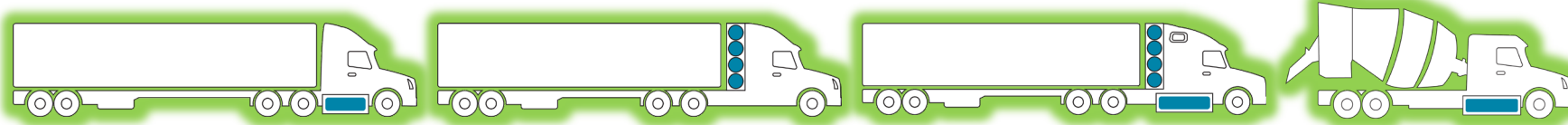
Notable OEMs



# Natural Gas best suited for high payload and long-haul applications

## With 15+ global OEMs offering over 50 HD vehicle platforms

Heavy Duty Truck

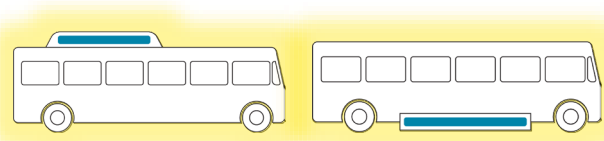


Refuse

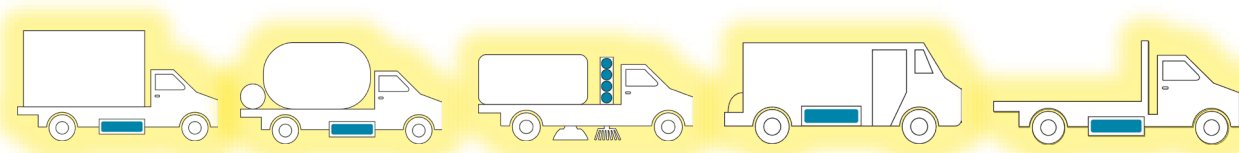


Applications well suited for CNG today and into the future

Bus & Coach



Medium Duty

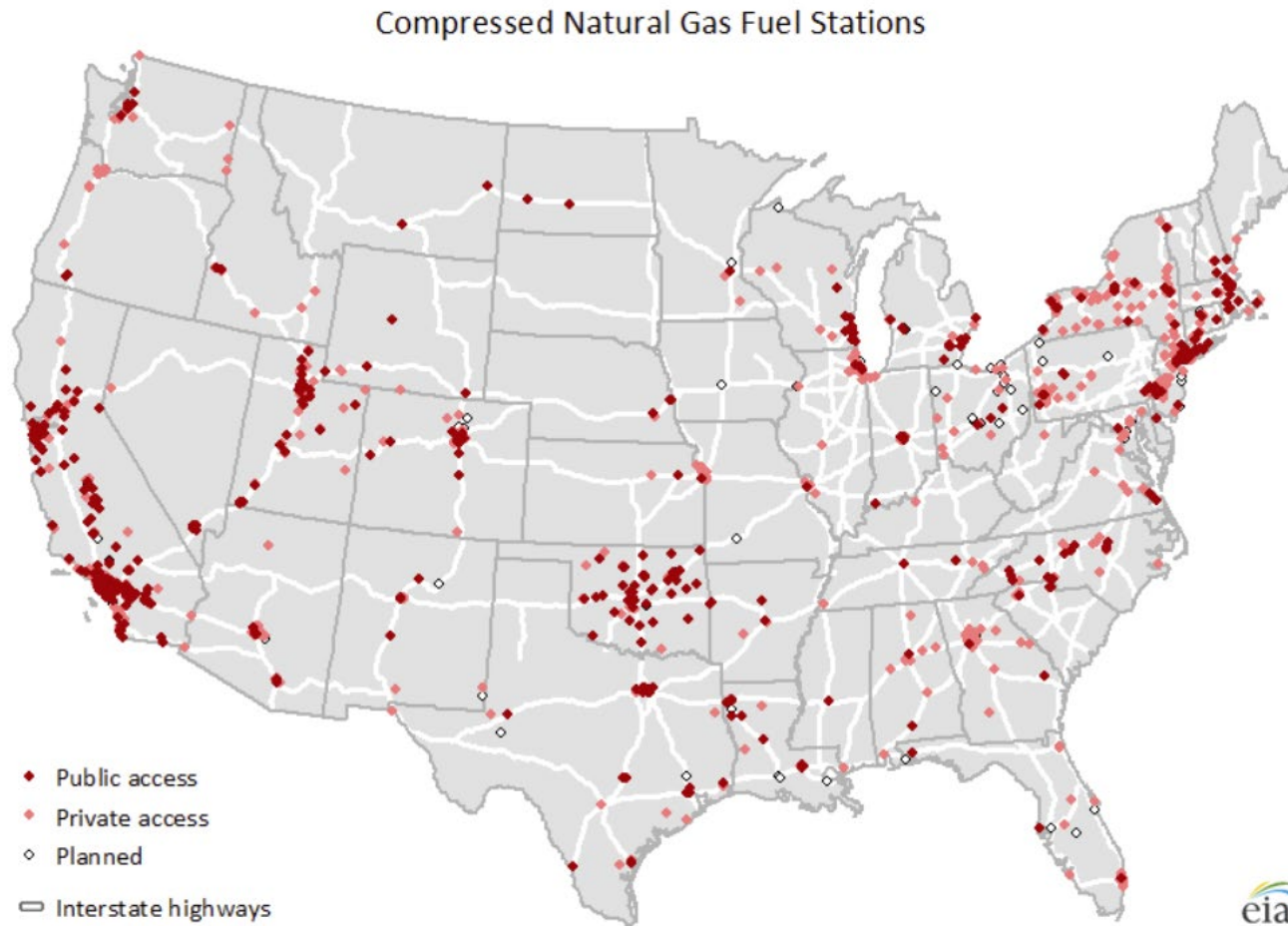


Applications well suited for BEV today and possibly H2 solutions in future



Notable OEMs

# RNG/CNG fueling infrastructure is already in place along key transport routes in the US supporting long-haul transport



**1,680**  
CNG stations in the  
US today

**50**  
planned

**Over 69%**  
Natural gas used  
in transportation  
is RNG

# RNG is the only alternative fuel that is immediately deployable at scale

Highest carbon abatement potential	<b>-99.2</b> g/CO <sub>2</sub> /MJ	Lowest Carbon Intensity score as calculated by CARB of any fuel alternative for HD transport
Best performing energy choice for fleets	<b>1,100+</b>	Mile range potential for HD transport between fill with no loss of payload
Available fuel and filling stations	<b>1600+</b>	Public and private HD CNG filling stations available in North America
Mature technology with OEM support	<b>50+</b> <b>15+</b>	Heavy Duty OEM Natural Gas vehicle platforms available globally with over 60 in North America Global OEMs with mature offerings in CNG/LNG/RNG, incl. DTNA, MACK, Volvo, Kenworth, Peterbilt and many more
Positive TCO for today's HD fleet	<b>1st</b>	Available renewable fuel, mature product platforms, OEM support and an operating model that allows for fleet efficiency make RNG the best alternative fuel solution

# RNG is the only alternative fuel that is immediately deployable at scale

Highest carbon abatement potential	-99.2 g/CO2/MJ	Lowest Carbon Intensity score as calculated by CARB of any fuel alternative for HD transport
Improving Regulations in USA	↑ ↓	Latest CARB and EPA harmonization favorable to adoption of CNG EU policy lagging US with continued uncertainty but favorable OEM readiness to support NG
Best performing energy choice for fleets	1,100+	Mile range potential for HD transport between fill with no loss of payload
Available fuel and filling stations	1600+ 600+	Public and private HD CNG filling stations available in North America LNG filling stations in Europe on main trucking corridors
Mature technology with OEM support	100+ 15+	OEM Natural Gas vehicle platforms available globally with over 60 in North America Global OEMs with mature offerings in CNG/LNG/RNG, incl. DTNA, MACK, Volvo, Kenworth, Peterbilt and more
Positive TCO for today's HD fleet	1st	Available renewable fuel, mature product platforms, OEM support and an operating model that allows for fleet efficiency make RNG the best alternative fuel solution

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Clean air everywhere