Clean Energy®

GREEN YOUR FLEET

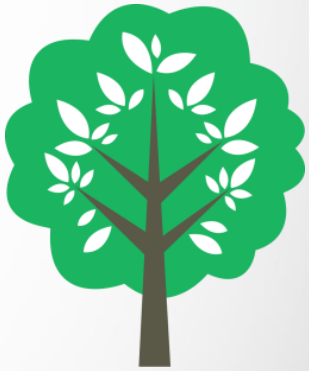
Granite State Clean Cities

Past Fueling Landscape

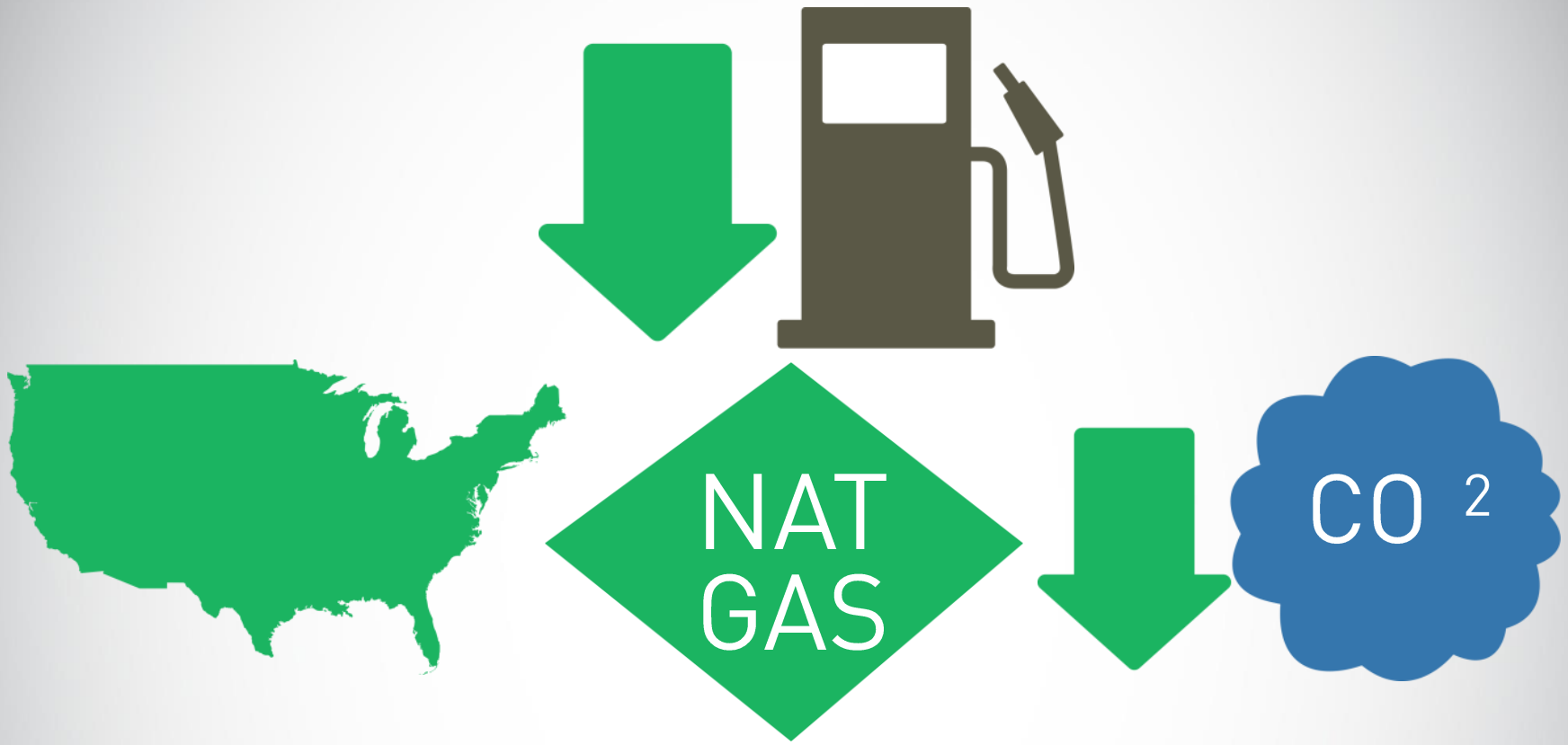
ECONOMICS

HIGH FUEL
COSTS

ENERGY
DEPENDENCY

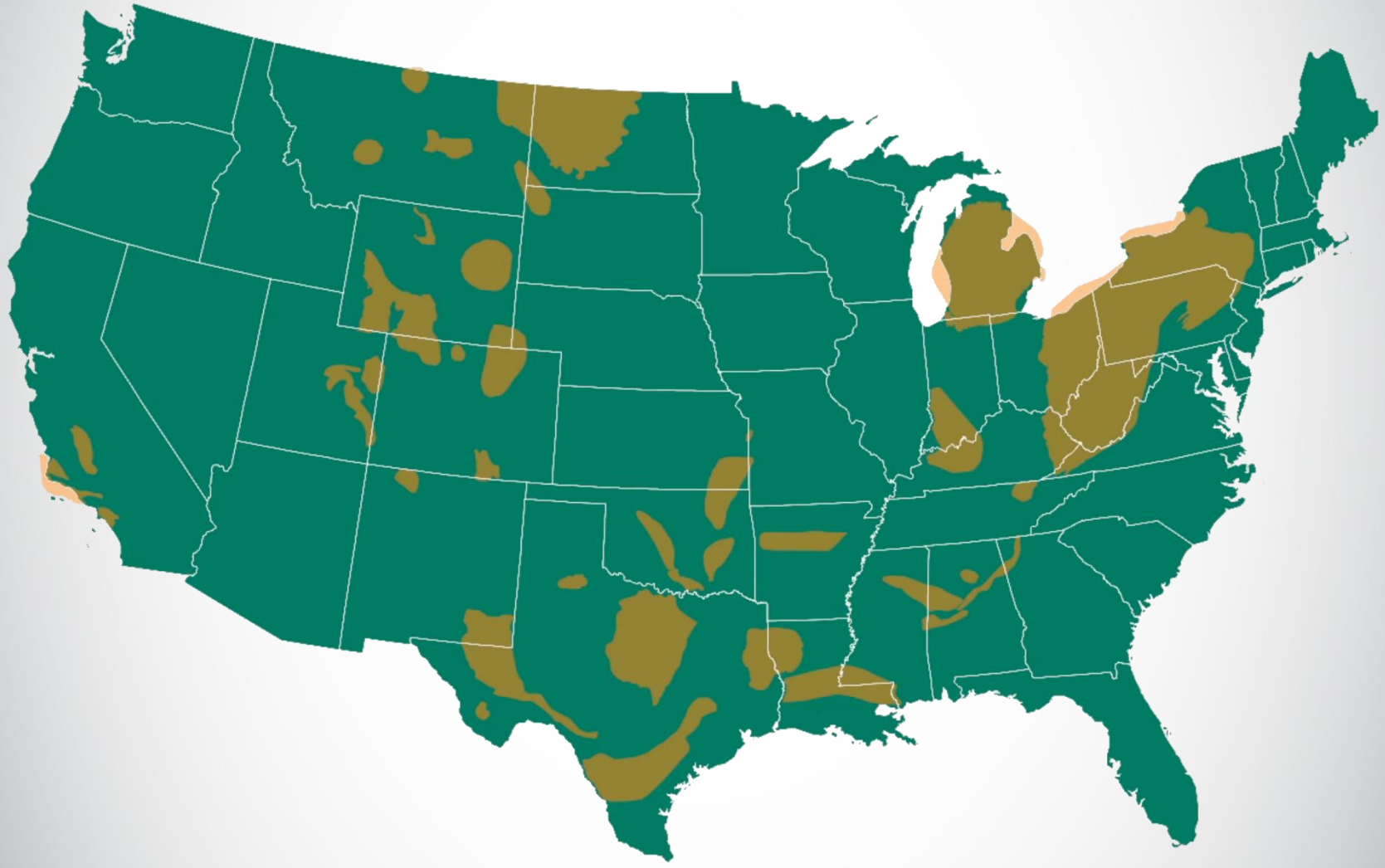


SUSTAINABILITY
GOALS



Solution

US Shale Plays



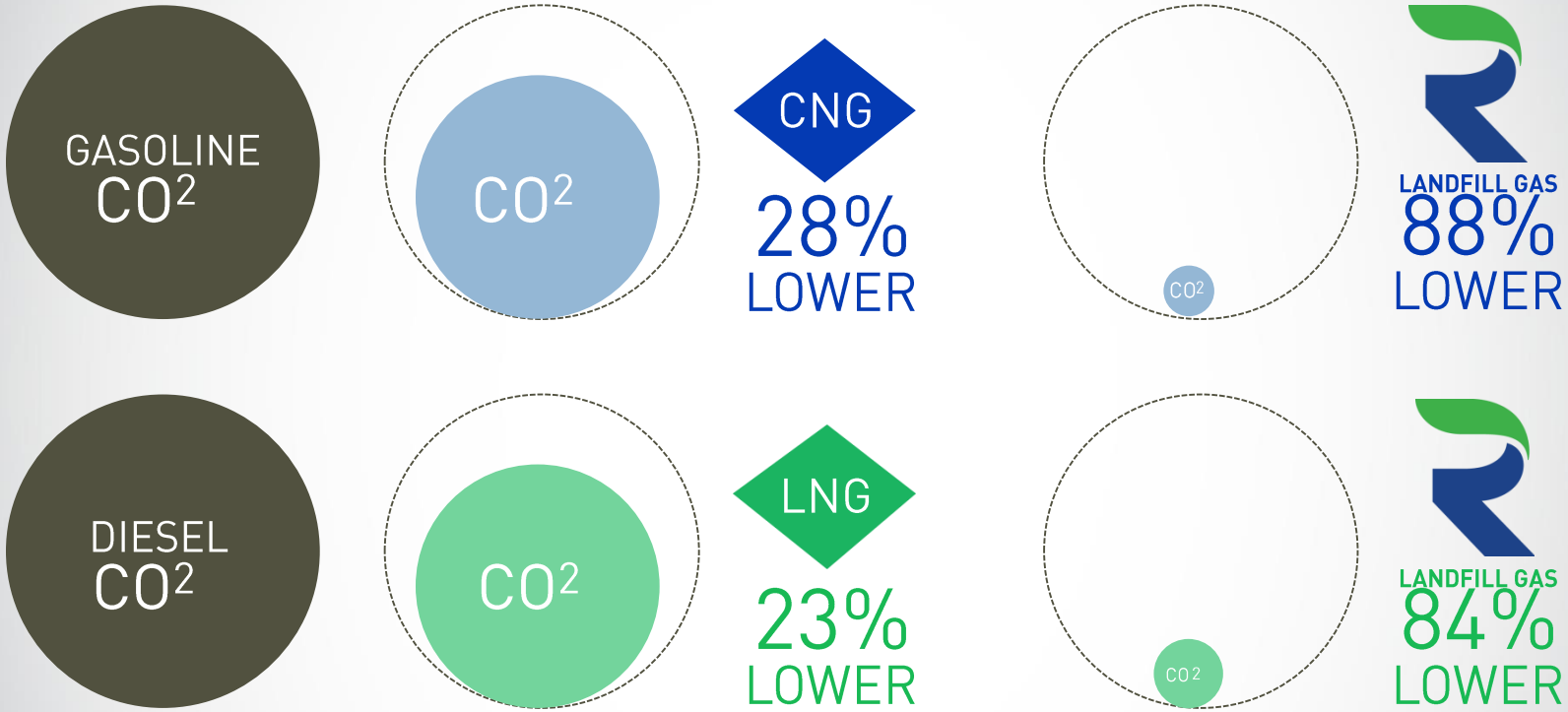
Compressed Natural Gas Basics

- Light, medium, and heavy duty vehicles
- Gas delivered by pipeline to fueling station
  - Same gas that heats homes & used for cooking
- Gas is compressed at the station to 3600 psi for dispensing
- Dispensed similar to gasoline and diesel
  - Dispensing ranges from 5 to 15 GPM depending on compressor
  - Beware: some stations dispense < 5 GPM
- Stored in 1 or more cylinders on vehicle

Liquid Natural Gas Basics

- Heavy duty/long haul vehicles
  - Storage volume is half of CNG
  - System weight is less than CNG
- Pipeline gas cooled to -260F
- Produced at LNG plants
- Delivered in trailers to fuel stations
- Rapid fueling in about 5 minutes

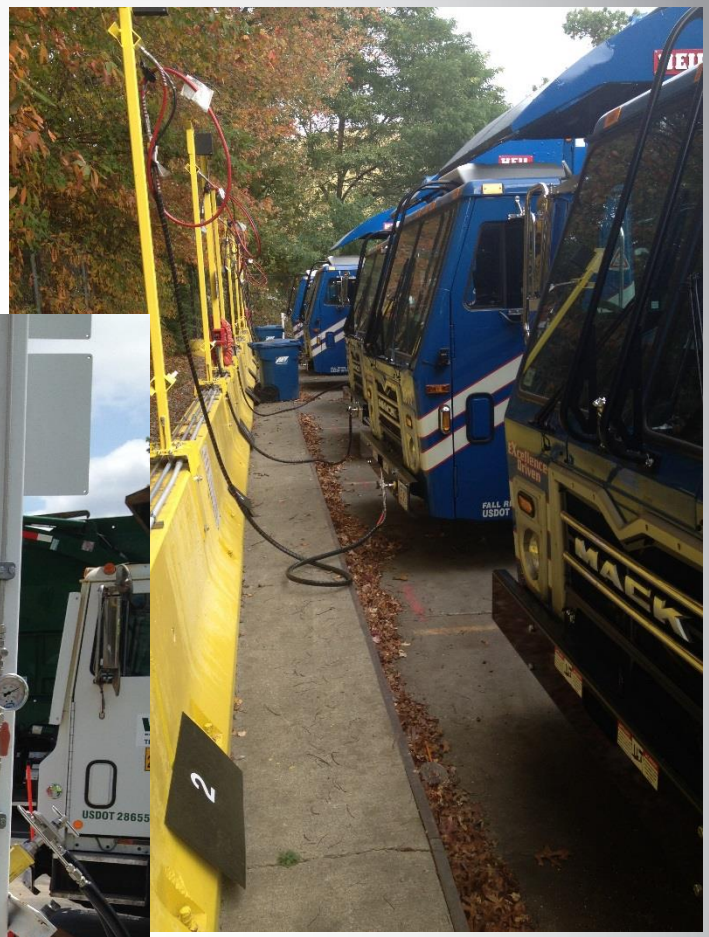
NatGas Vehicles Have A Lower Carbon Footprint



GREENHOUSE GAS EMISSIONS

PUBLIC
SERVICES
2327
COMPRESSED
NATURAL GAS
EMERGENCY
SHUTDOWN

THIS AREA
IS UNDER
24 HOUR TV
SURVEILLANCE
TRESPASSERS WILL
BE PROSECUTED
DANGER
COMPRESSED
NATURAL GAS
EMERGENCY
SHUTDOWN
MACK
USDOT 28655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MACK

All American WASTE
Clean Energy
Clean Energy
Natural Gas for Vehicles

Clean Energy
Clean Energy
1069

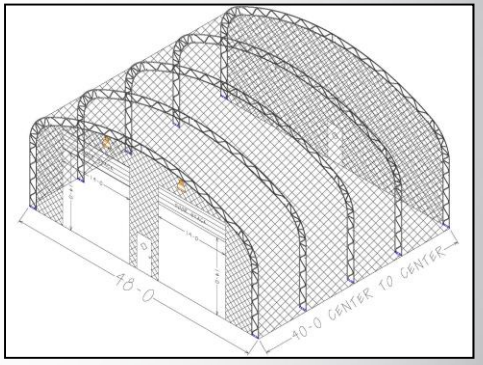
Natural Gas for Vehicles

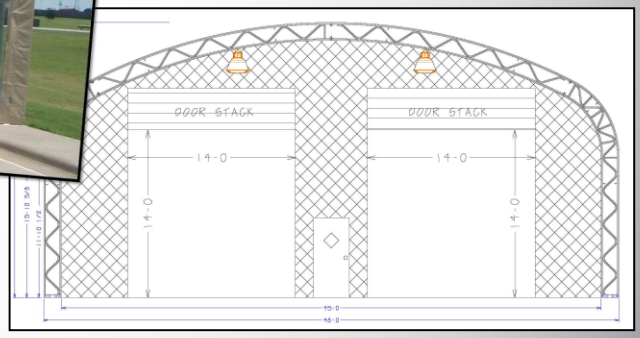
FACILITY MODIFICATION – CODES

Classified Zones	CNG: 18" on underside of ceiling LNG: 18" on underside of ceiling + 18" above finished floor surfaces
Heating	No open flames or surface temperatures greater than 750 °F
Monitoring	Methane Detection / Alarms (Visual & Audible)
Ventilation	Day to Day Operations versus Leak Event
Upgrades	Control System, Warning Devices, Ventilation, Heating, and Electrical re-location

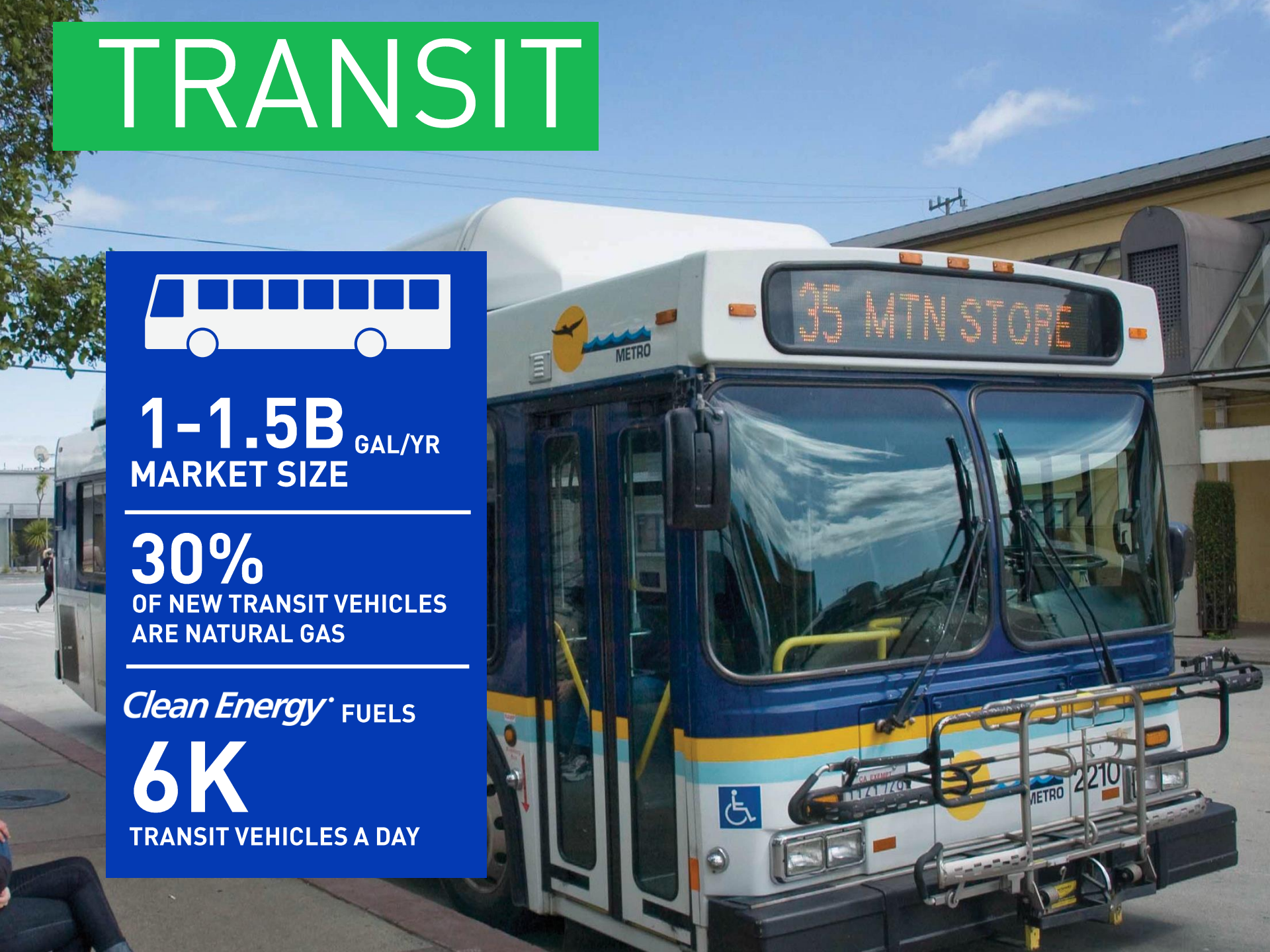
Tension Fabric Structure

Code Compliant, Lower Cost, Re-locatable





TRANSIT



1-1.5B GAL/YR
MARKET SIZE

30%
OF NEW TRANSIT VEHICLES ARE NATURAL GAS

Clean Energy® FUELS
6K
TRANSIT VEHICLES A DAY

AIRPORTS

2B GAL/YR
MARKET SIZE

Clean Energy
AT **39**
AIRPORTS

REFUSE TRUCKS

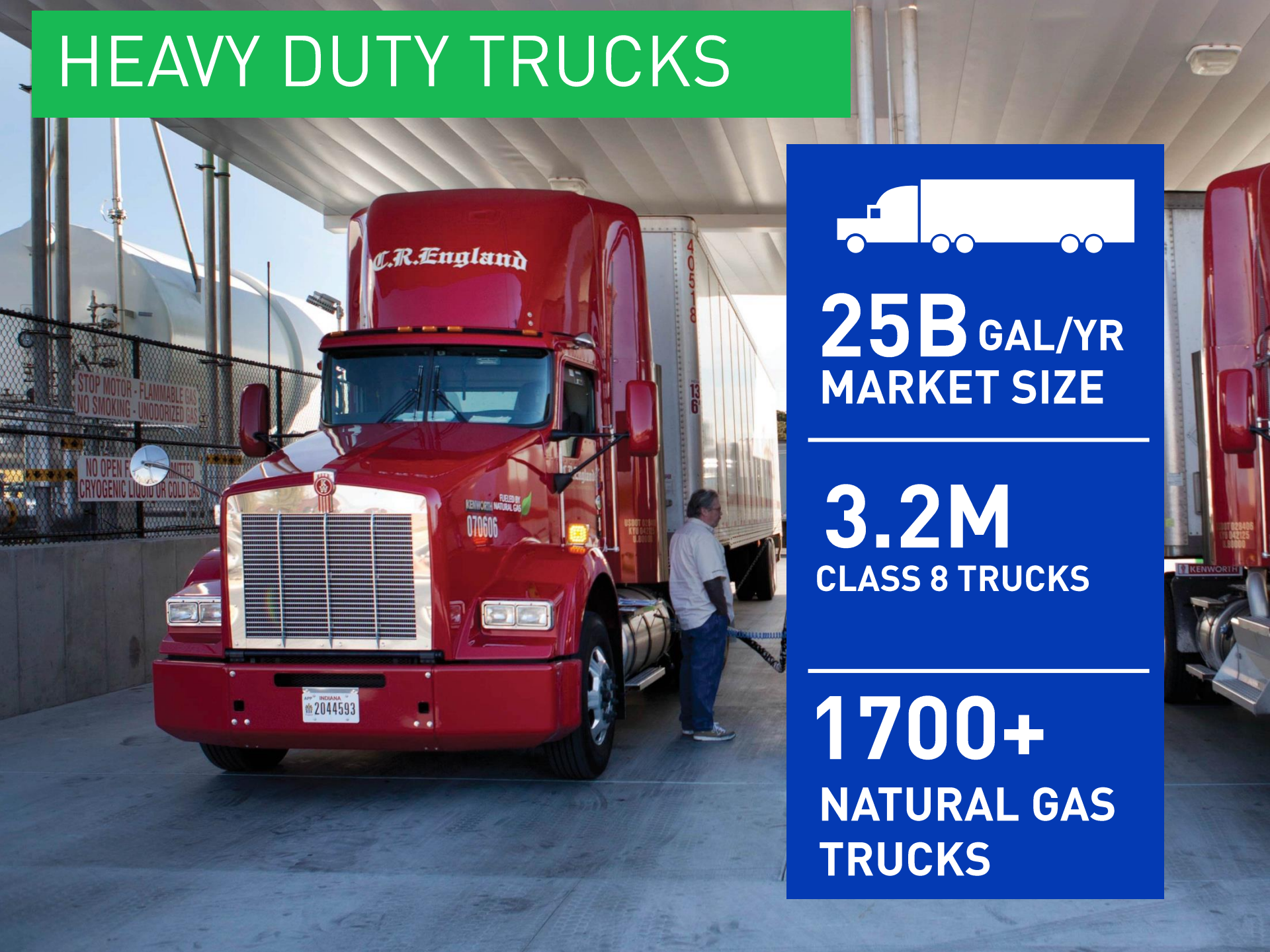
2B GAL/YR
MARKET SIZE

179K
TRUCK
MARKET

Clean Energy

5K+
TRUCKS A DAY

HEAVY DUTY TRUCKS



25B GAL/YR
MARKET SIZE

3.2M
CLASS 8 TRUCKS

1700+
NATURAL GAS TRUCKS

KENWORTH
BRIDGEPORT, CT

LCSWMA
CNG

OZINGA
1209
KENWORTH
1209 OZINGA 1209

U.S.A.
245
800-998-2984
USDOT605366
CNG

Clean Energy
Natural Gas for Vehicles
ALL WASTE INC.
U.S.A.
PAGE

AQUA

55
FB

MY 18 Ford Light/Medium Duty

Ford Line Up 2018

Powered By Westport CNG

Ford Pickup Series

F-150 with 5.0L
BIFUEL CNG

F-250/350 with 6.2L
In-bed and under-bed tanks
DED & BIFUEL CNG & BIFUEL

Ford F-Series Medium Duty

DEDICATED CNG

F-350/450/550
Cab/Chassis

F-650/750
Cab/Chassis

F-59 Commercial
Chassis

Service Body Applications

F-250/350 READY-link™

F-350/450/550 Chassis

Ford Van-Series

Transit Wagon & Cargo
3.7L DED CNG &
BIFUEL

E-450 Cutaway With
6.8L
Dedicated CNG

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Fleets Exploring Natural Gas Fueling

Clean Energy®

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