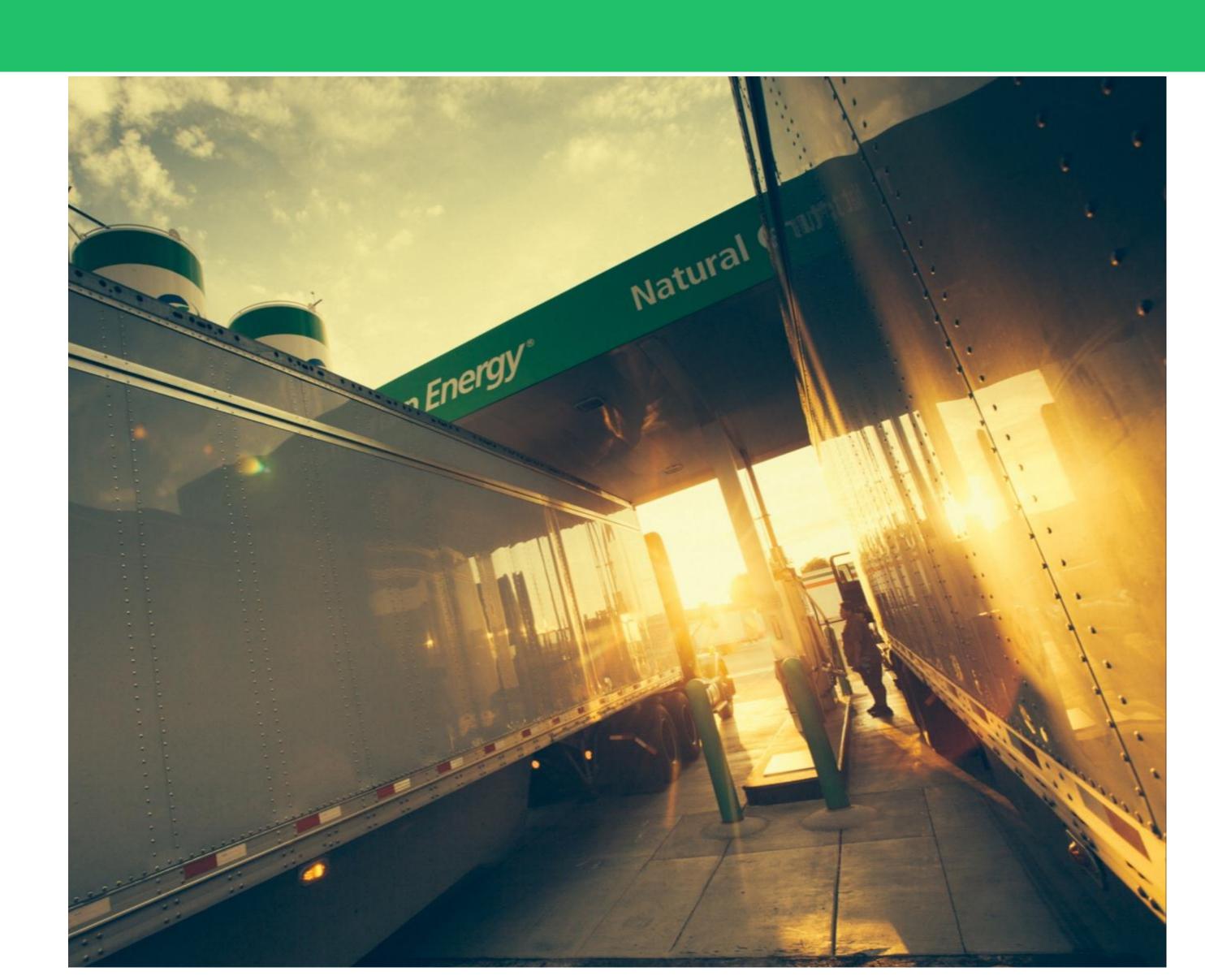


STATE OF THE INDUSTRY UPDATE

Natural Gas and Renewable Natural Gas in Fleet Applications

AGENDA

- **V** NGV Market
- **✓ Why Natural Gas**
- **✓** Renewable Natural Gas
- **V** Oil & Natural Gas Outlook



Natural Gas Vehicle Market

Natural Gas Vehicles in the WORLD

142,000
Natural Gas Vehicles
on the road in the U.S.



Product Offerings From OEMs

Natural Gas Product Manufacturers































































Natural Gas Fuel Providers in North America













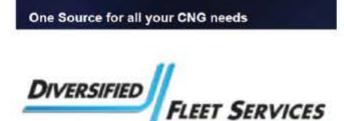


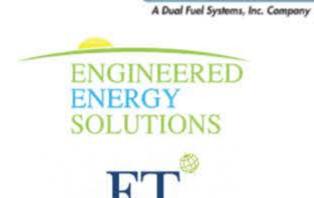


































































































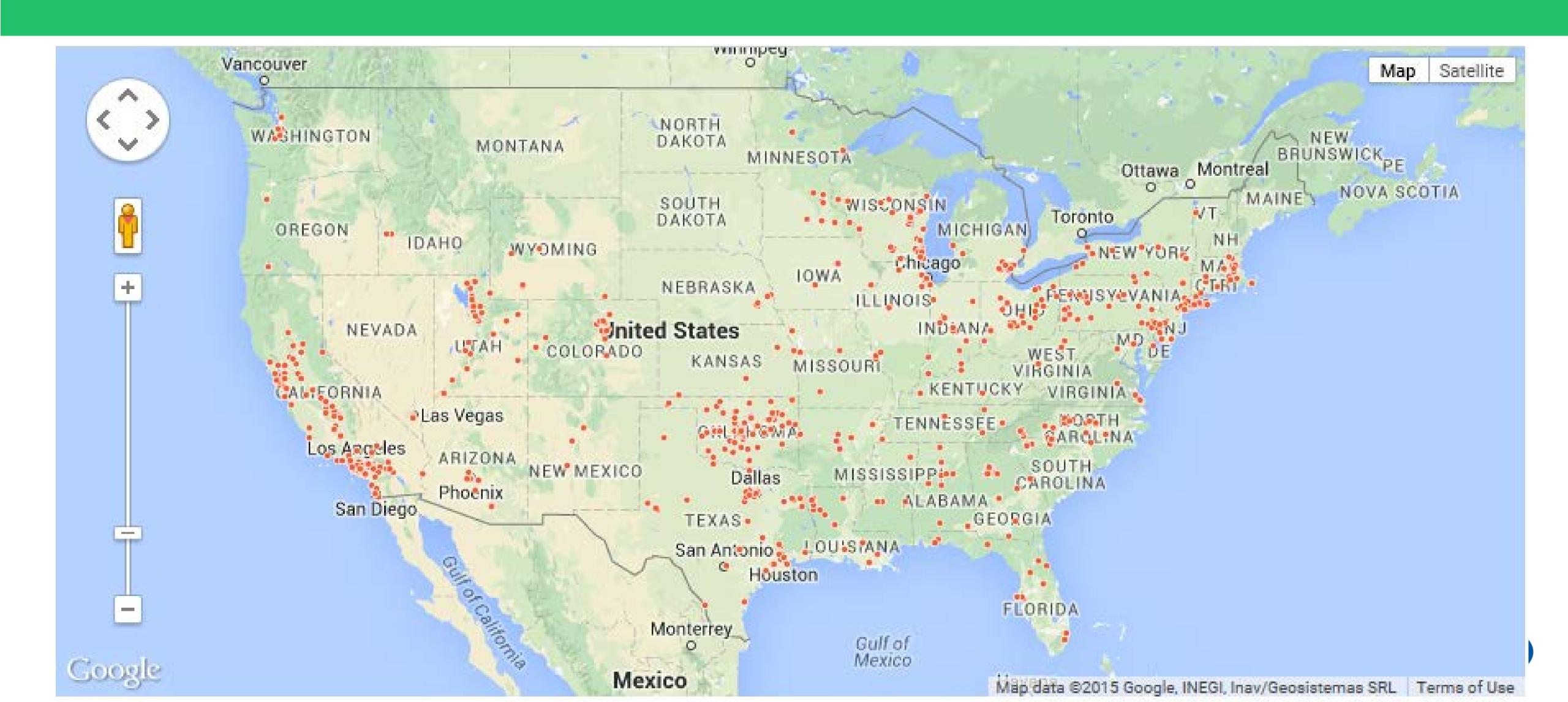








Natural Gas Fueling Stations Coast-to-Coast



Natural Gas Fueling in the U.S.

TODAY



NG Vehicles are serving close to 40 major airports



Over 30% of transit buses operate on NG



Over 60% new refuse trucks are NG



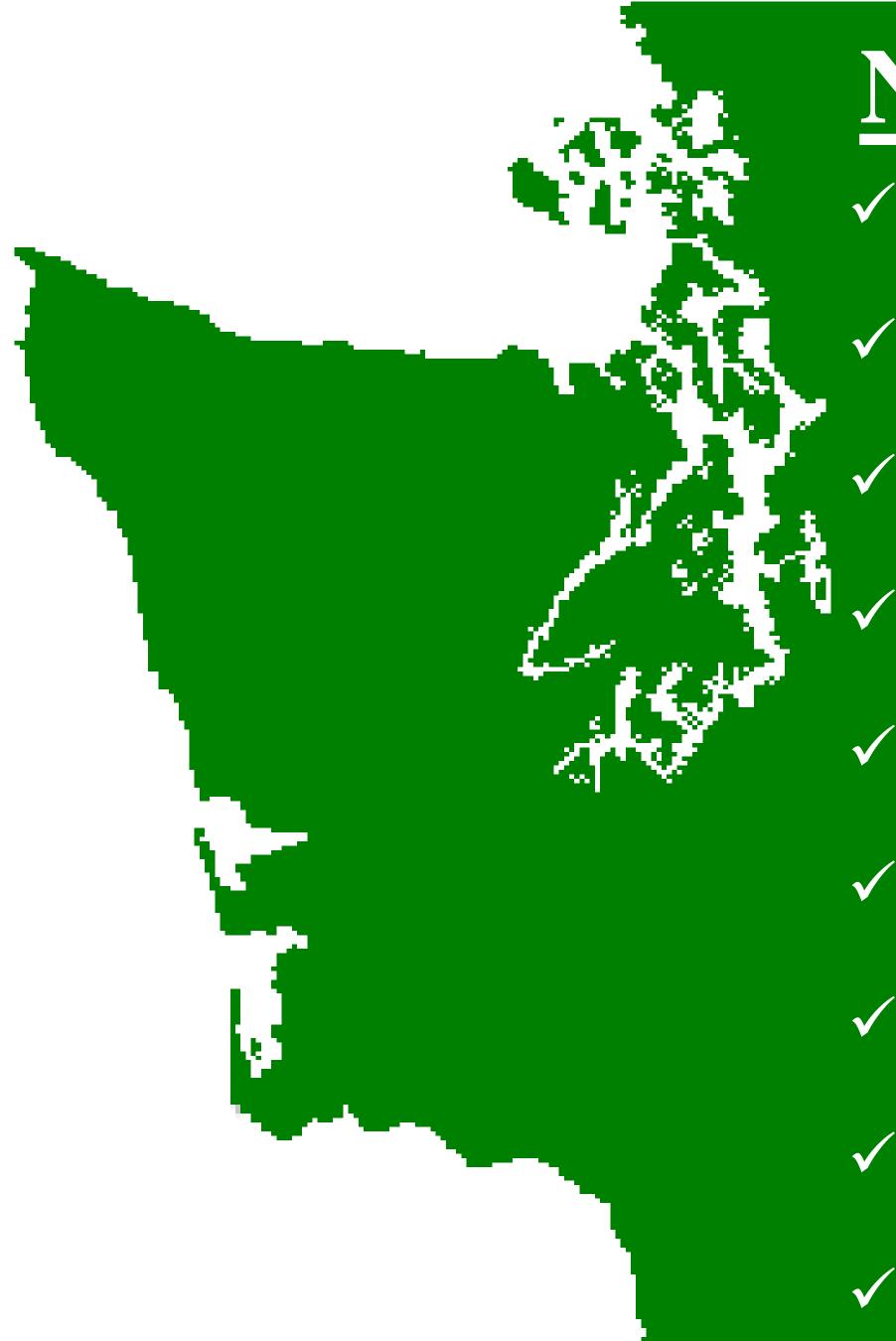
Heavy-duty truck market is beginning to transition



Rail industry piloting LNG locomotives



Major marine companies ordering first LNG-powered vessels



Natural Gas Fleets in WA

- **King County**
- Port of Seattle
- Republic Services
- CleanScapes
- ✓ City of Tacoma
- **✓** City of Spokane
- **✓** Pierce Transit
- **✓** Waste Management
- **✓** Doug Fox Parking

- ✓ Potelco
- **✓** Basin Disposal
- **✓** City of Spokane
- ✓ Interstate
- **✓** Puget Sound Energy
- **✓** Click Distribution
- ✓ Ocean Beauty Seafood



Why Nat Gas?



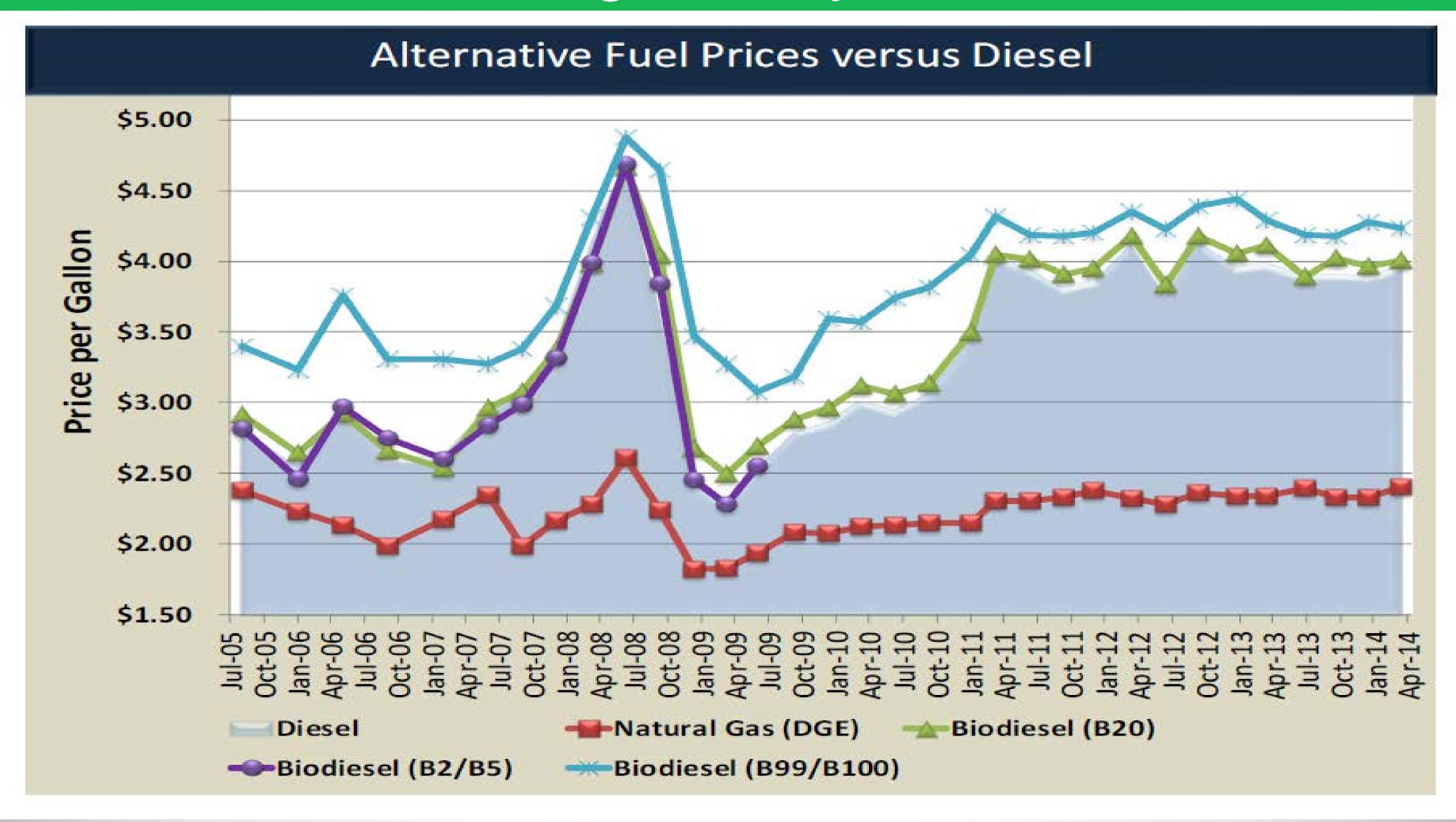


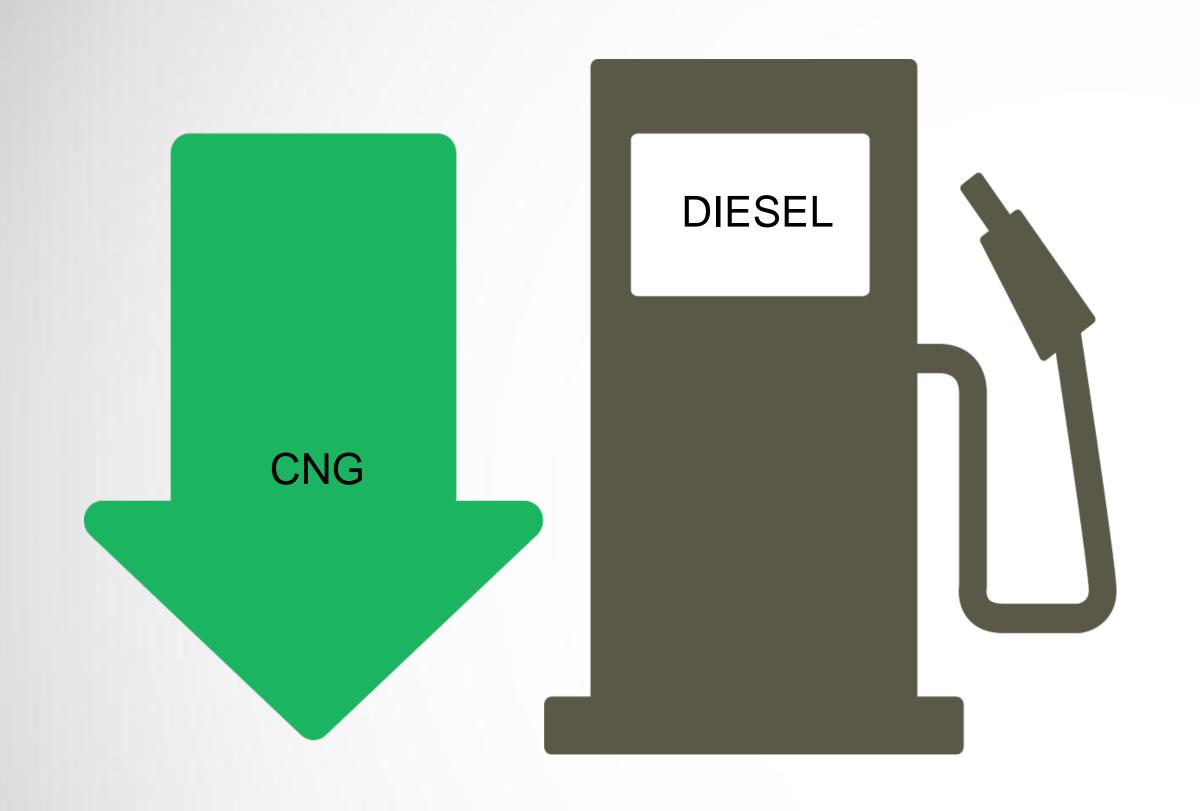






Natural Gas Pricing – five year flat line





Washington Prices

EIA average west coast February 9, 2015

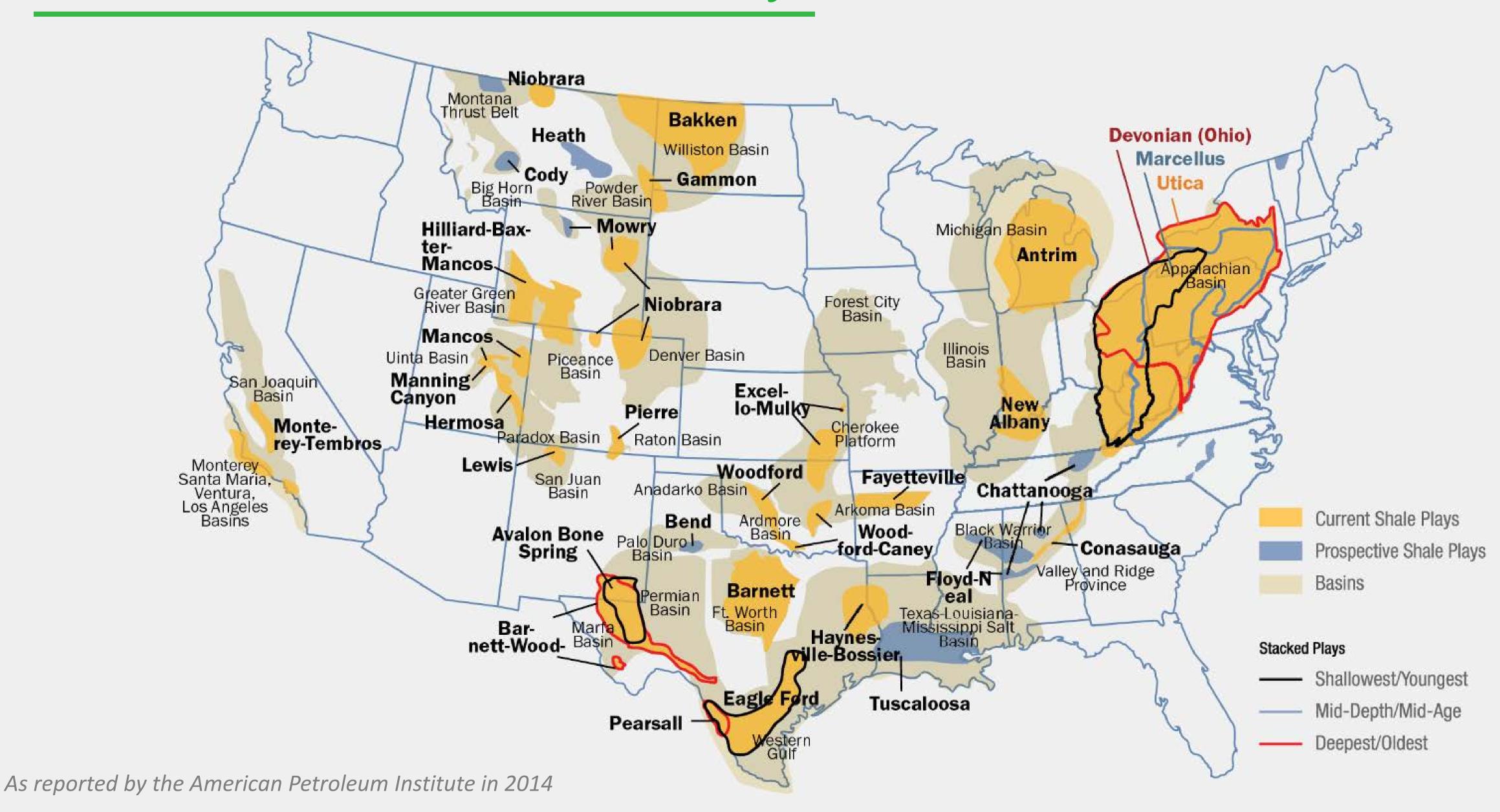
ULSD (DGE)	\$2.76
CNG (DGE)	\$2.28
Savings	\$0.48

Annual Fuel Savings

(Per truck) \$4,368*

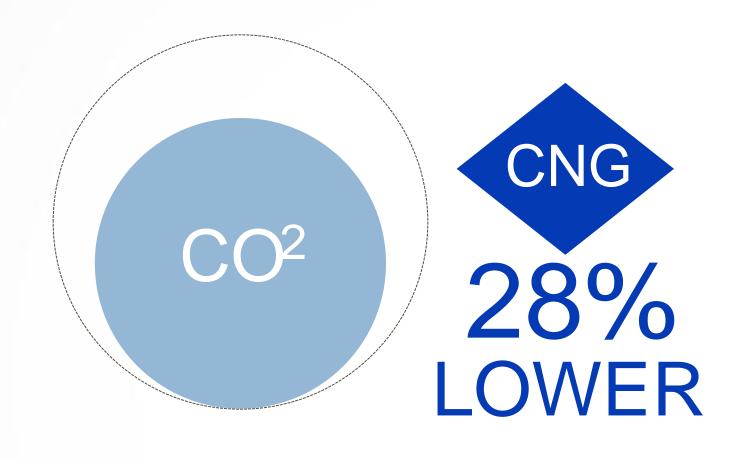
*Based on 9,100 gallons per year

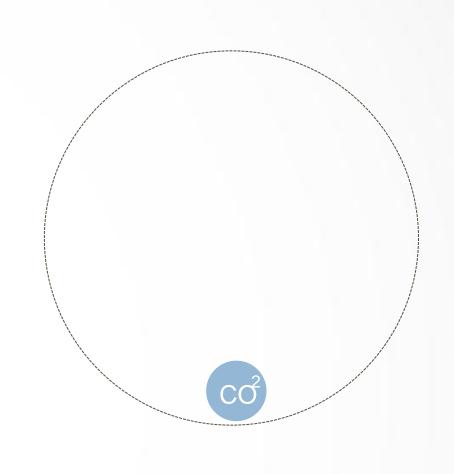
US Natural Gas Shale Plays

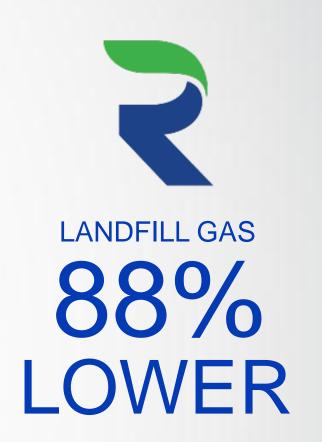


NGVs Have a Lower Carbon Footprint

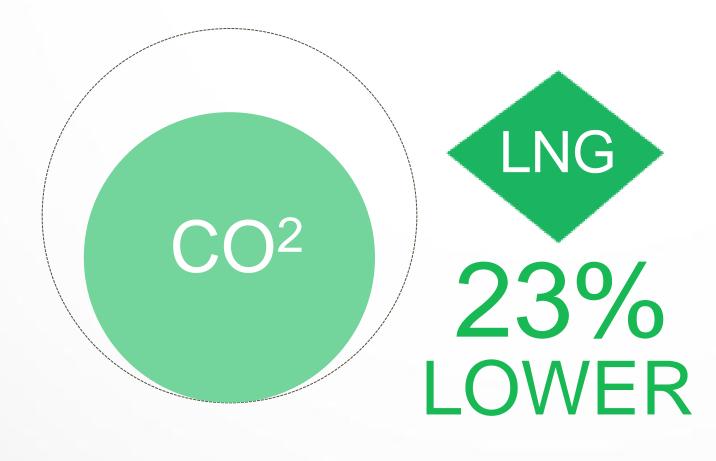


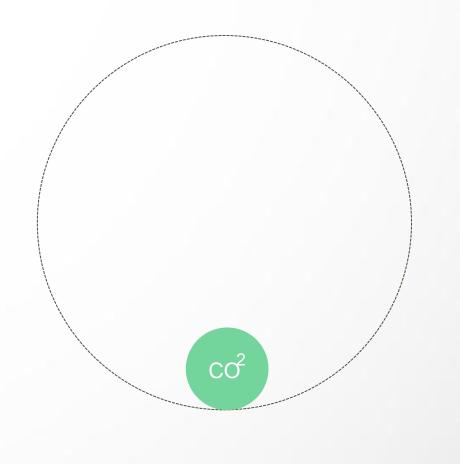


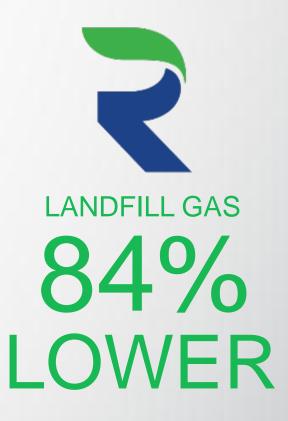












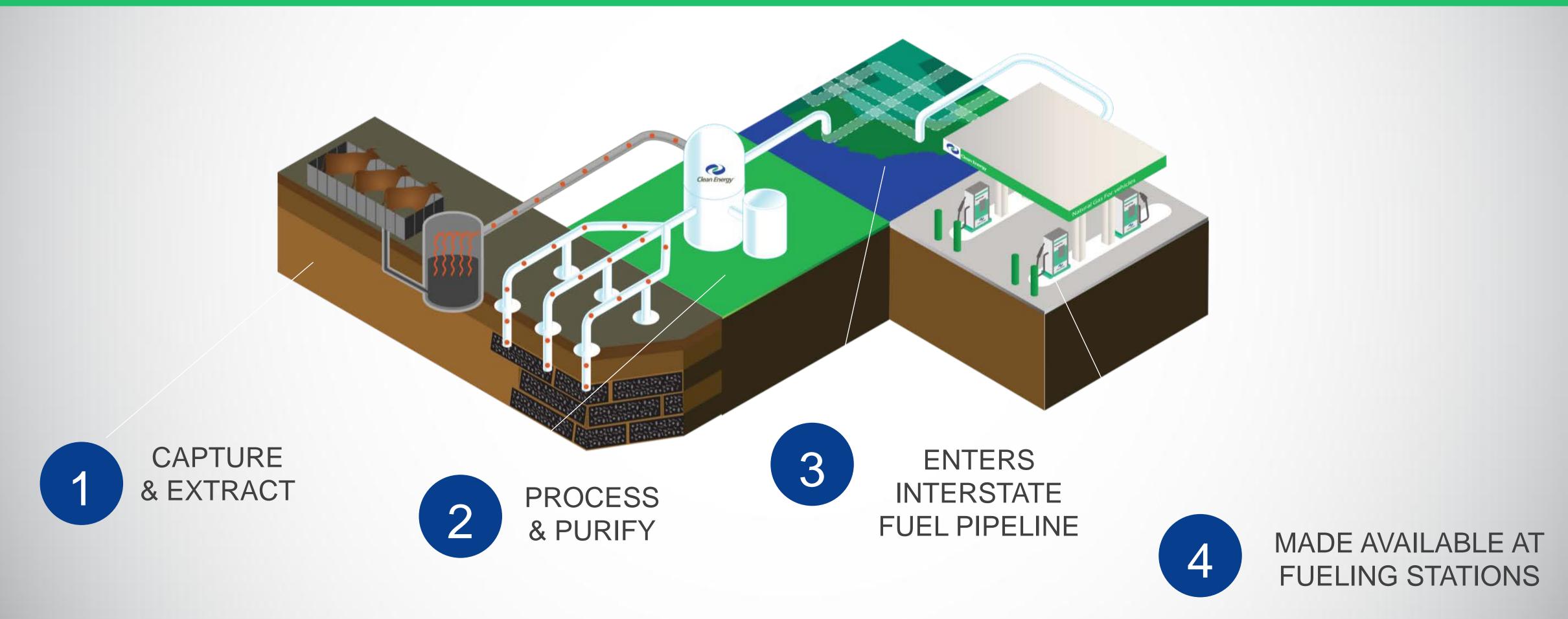
GREENHOUSE GAS EMISSIONS

Renewable Natural Gas (RNG or Redeem)?

- RNG is biogas upgraded to a quality similar to fossil natural gas
- Produced at waste water treatment facilities, dairy farms, landfills, etc.
- RNG can be CARBON NEGATIVE (-15 carbon index # in CA)



How Redeem is Made



Three LFG projects and 12 biogas supply sources nationwide



WHYREDEEM



CLEANER

The cleanest fuel available – up to 90% cleaner than diesel and gasoline



COST EFFICIENT

Substaintially less expensive than diesel and gasoline



RENEWABLE

Made from organic waste from sources like landfills and farms



DOMESTIC

Moving the country towards energy independence



RNG Projects in WA

- King County Waste Water Treatment Facility
- Cedar Hills Landfill
- Future dairy farm project







Next Phase of RNG for Fleets: Food Waste Anaerobic Digestion





What About Oil?

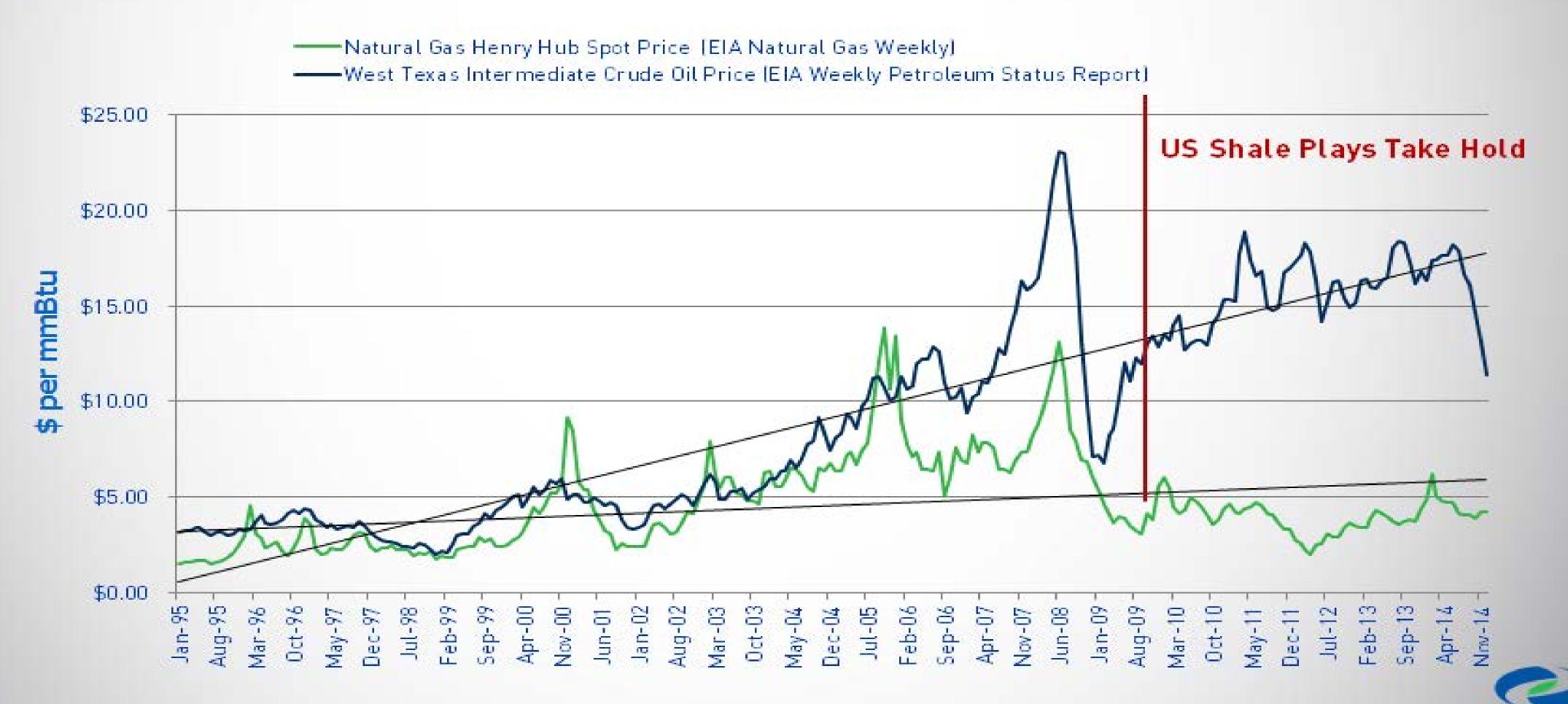


February 12, 2015

WTI futures \$51.21

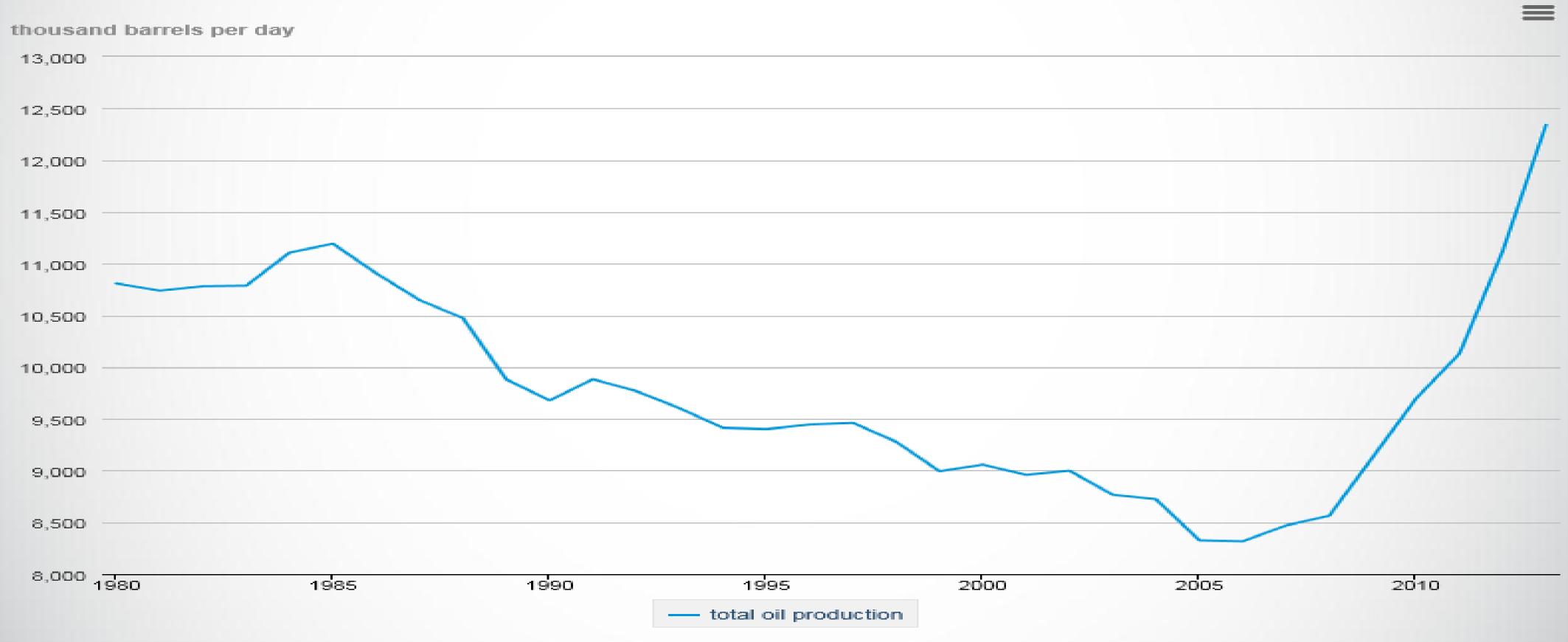


US shale plays have reversed the historical price relationship of oil and natural-gas in the US



US Oil production sky rockets due to advances in horizontal drilling

United States total oil production (1980-2013)







US PRODUCTION SLOVING DOV/N

"Baker Hughes service company reported that the nation's rig count had dropped by 94, or 7 percent, in the last week, the largest singleweek drop since the late 1980s. That leaves 1,223 rigs in operation, the lowest number in three years, and energy executives say another 300 rigs could be decommissioned in the next few months as service contracts expire."

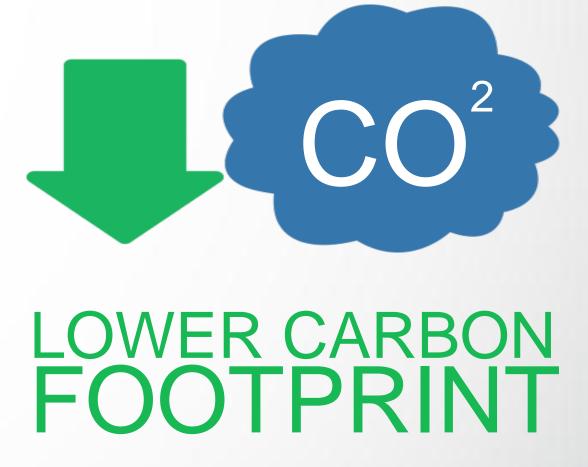
- NY Times January 30, 2015

US Natural Gas – Still the Winning Bet

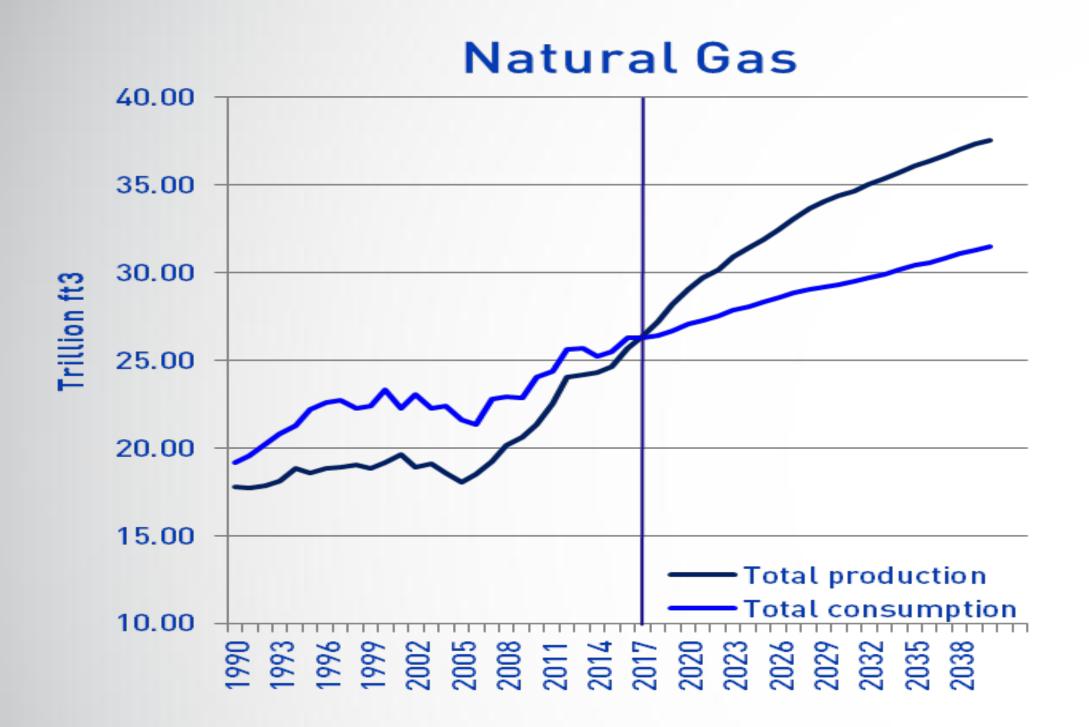




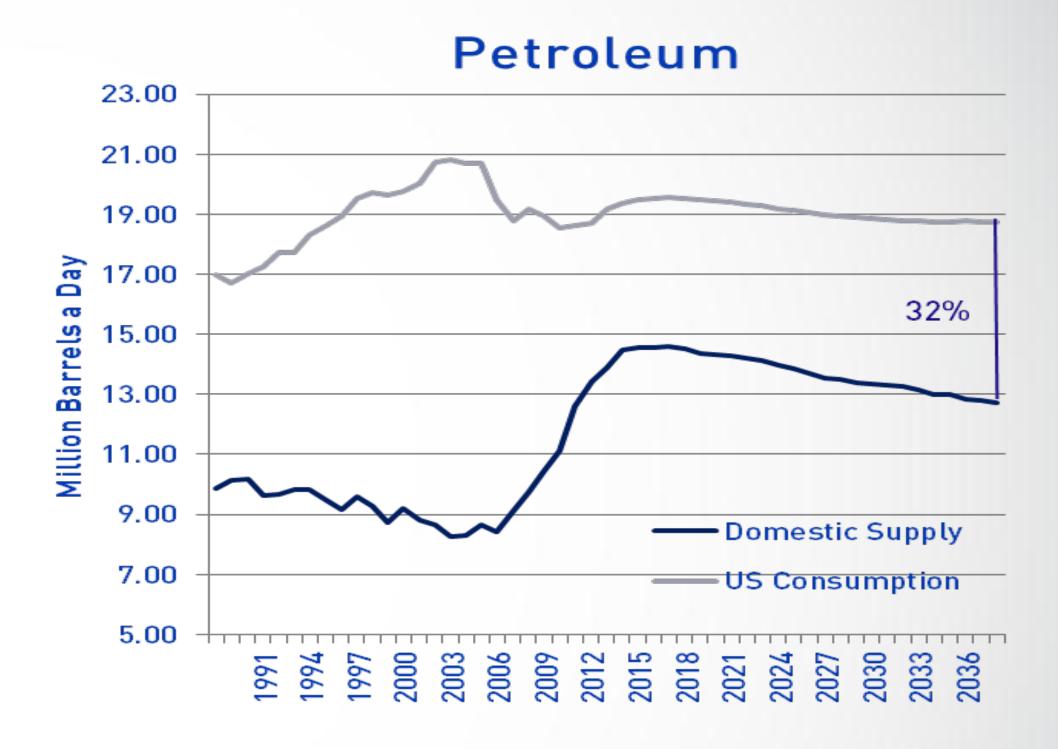




US Supply and Demand Projections



US natural gas production projected to continue to grow while oil is predicted to plateau.



The US is predicted to out produce domestic consumption of natural gas by 2017 while continuing to import oil to meet demand for the foreseeable future.



Cost Of Oil Vs. Natural Gas



SUMMARY

- Natural gas fueling is happening
- Nearly all major OEM's have NG products
- Economics are the primary driver
- Engines are available and they work
- Abundant American fuel source
- Emission reductions and sustainability
- RNG is available in WA
- Oil prices will climb in late 2015 or early 2016





Sean Wine Regional Manager (949) 437-1000 swine@cleanenergyfuels.com