



***Clean Energy***<sup>®</sup>

*North America's leader in clean transportation*

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## Introduction: Energy in the United States

- United States transportation sector dependent on motor vehicles
- Consumer: light duty
- Fleets: light, medium and heavy duty
- Other modes of transportation essential
- Unlikely to significantly change long engrained dependency on motor vehicles

## All energy usage, i.e., stationary and transportation are interdependent

- Demand Side Management and renewables e.g. (solar, wind and biomethane) provide economic and environmental solutions
- Important to make the highest and best use of fuels to meet our energy and transportation challenges

## Energy in the United States

- For more than 40 years, every president has promised to make the US “energy independent”
  - Nixon
  - Ford
  - Carter
  - Reagan
  - Bush 1
  - Clinton
  - Bush 2
  - Obama
- In 1970 we imported 24% of our oil
- Today we import 65% and it’s growing

## Energy in the United States

- Every day, 85 million barrels of oil are produced around the world
- 21 million of those are used here in the US
- 25% of the world's demand; 4% of the world's population
- We spent \$475 billion importing oil in 2008 alone
- Over the next 10 years, it will be \$10 trillion
- One of the greatest transfers of wealth in the history of mankind
- Threatens our economy, environment and security

## The United States needs an Energy Plan that:

- Reduces dependence on foreign oil
- Is economic
- Is clean
- Is abundant
- Is realistic and workable

## An Energy Plan needs:

- Highest impact
  - Environmental
  - Energy independence
- Least change
  - Consumer behavior
  - Business acceptance
  - Legislative feasibility
- Lowest cost
  - Infrastructure
  - Government expenditures
  - Business/consumer investment

## In Transportation

- Natural gas vehicles are an immediate and realistic solution
- Technology is already here
- Synergy potential with business, utilities, environmentalists
- Enormously abundant
  - Shale gas and unconventional supplies
  - [120] years of reserves
- It works

	Avg. Annual Fuel Consumed <u>(gallons)</u>
Passenger Car	600
Taxi	5,000
Trash Truck	10,000
Shuttle Bus	12,000
18 Wheeler	18,000

*Nearly 33% of every barrel of oil we import is used by 18-wheelers moving goods around and across the country by burning imported diesel*

## Why Clean Energy focuses on fleets – and why America should

- Highest fuels users
- Serves the sectors with the most to gain, least to lose
- Lowest cost to the users
  - Centralized fueling infrastructure
  - Cheapest fuel
- Most environmental benefit
  - NG compliant with LCFS and meets/surpasses criteria standards
  - RNG will benefit from LCFS, RFS, and RPS policies
- Highest and best use of the fuel

## In closing:

- Our strategy represents one opportunity to meet the energy challenge the United States faces
- Natural gas is abundant, affordable, domestic, clean, low in carbon, and renewable
- The business opportunities are virtually unlimited given present/future regulatory and legislative framework