Vehicular Natural Gas

Fueling Infrastructure

OVERVIEW

Clean Energy℠

Reagan Noll

Infrastructure Development

(1.) Natural Gas Station Design & Maintenance

(2.) LNG Supply

(3.) Landfill Gas

In 1970, we imported 24% of our oil.

Today it is nearly 70%

Sources: EIA 2008: http://www.eia.doe.gov/


In 2008 US Spent $475 billion
Daily World Production
85 million
U.S. Consumes
25%
Sources: EIA 2008: http://www.eia.doe.gov/

China = 19%

India = 16%

Sources: www.cpirc.org / www.indiastat.com / US census: www.census.gov

High Fuel Usage Fleets

Compressed
(CNG)

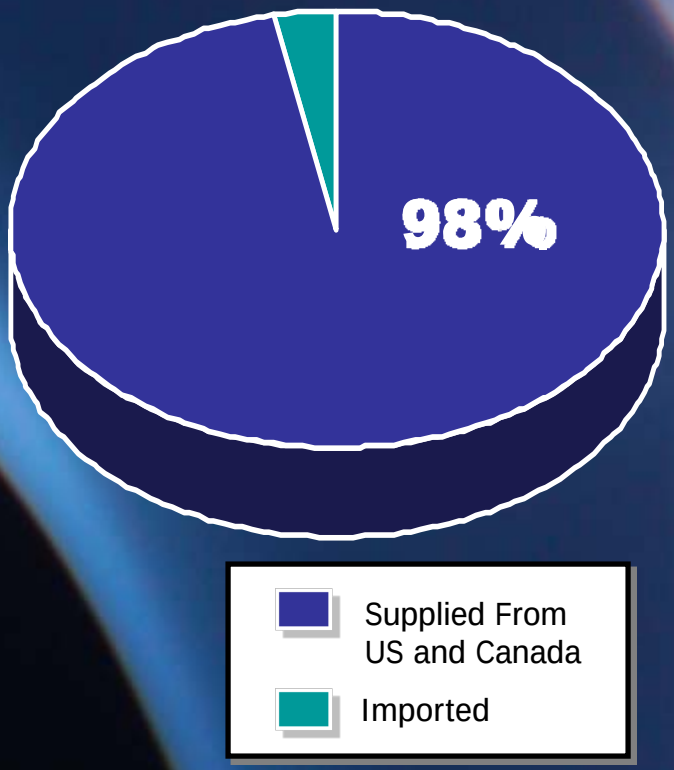
- Drawn from pipeline and compressed into cylinders
- Dispensed similar to gasoline / diesel

Liquefied
(LNG)

- Chilled to -260 F
- Formulated at a Plant
- Has to be transported

US Natural Gas

supply



120+

Years of Domestic Reserves and growing

*Based on Current Rate of Consumption
Sources: EIA 2008

Vehicular Natural Gas Technology

A History

Natural Gas Fleet Models

OEM & Aftermarket

Emissions Reductions from BIG ENGINES

12X less NOx Emissions Compared to Newest Diesel Engine

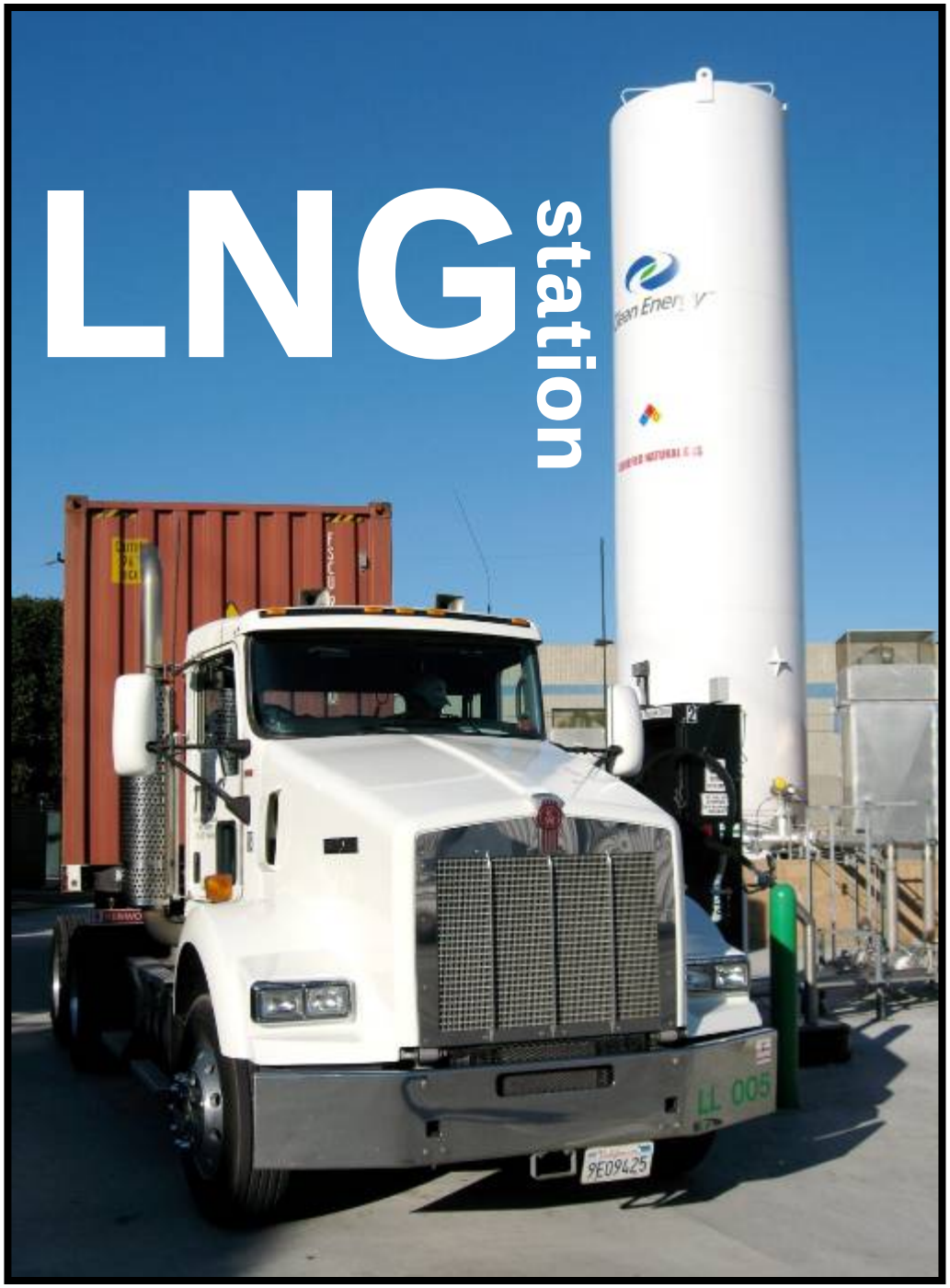
20%-23% Greenhouse Gas Reduction


CNG
FAST FILL STATION
Clean Energy
Clean Energy
Natural Gas for Vehicles

CNG COPRESSOR COMPOUND


CNG
TIME FILL STATION

LNG station



Natural Gas Is A **Regionally** Traded Commodity

Dispensed as Either:

Diesel Gallon Equivalent (DGE)

Gasoline Gallon Equivalent (GGE)

Diesel Price

$2.44

Natural Gas DGE

$1.72

*Diesel Price Based on avg. EIA Gulf Coast Diesel Retail Price 03-09 / DGE of CNG based on avg. HSC plus other applicable costs and taxes

OPTION 1: Own & Maintain The Natural Gas Station

YOURSELF!

OPTION 2:

Own The Natural Gas Station &

THIRD PARTY

Operate / Maintain

OPTION 3:

THIRD PARTY OWN & MAINTAIN The Natural Gas Station

Alternative Fuel Grant Incentives

Federal & State

$5 million

$300 million

$187 million

National Projects

ups™

at&t

TEXAS Projects

H-E-B
Here Everything's Better.

theParkingSpot®

Trimac

“Many a False Step is Made

STANDING STILL”

-Chinese proverb