

The Direction of Renewable Energy

Shaping the Future of Business on Long Island

Hydrogen / Natural Gas

March 16th - 8:30am – 12:00pm

Small Business Development Center

Stony Brook University



What is the Greater Long Island Clean Cities Coalition?

- A Federal U.S. Dept. of Energy Program
- 90 Coalitions are Designated
- Greater LI was 51st Coalition Designated in 1996
- We are a 501c3 Non-Profit Organization
- We are a Premier Coalition in the Nation
- Active Stakeholders – fuel providers, fleets, manufacturers, service companies, municipalities, etc.
- We Maintain Fuel Neutrality



Greater Long Island Clean Cities Coalition

Our Mission and Strategy

- The Coalition works to educate LI businesses, municipalities, educational institutions and other organizations about the benefits of AFV's
- Our mission is to facilitate energy independence, improve air quality and encourage economic growth.
- The Coalition provides funding assistance for the purchase of AFV's and the development of the fueling infrastructure on LI
- We foster and encourage public/private partnerships
- We support and facilitate technology development

Why Consider Alternative Fuel Now?

- The development and use of alternative fuels will do more to alleviate our dependence on foreign fuels than any other initiative currently underway in the U.S.
- Improved air quality and a substantial reduction in harmful emissions.
- New jobs in the domestic economy when alternative fuels replace imported petroleum.
- Economic Advantages - Improve Your Bottom Line

Why Natural Gas for Transportation? America's Best Kept Secret

■ Cheaper

- Cost average between
\$.50 - \$1.00 less per gallon than gasoline

■ Cleaner

- Cleanest burning fuel available
- Reduces GHG emissions by up
to 30% and NOx emissions by 85%

■ Domestic

- 97% domestically produced
- Gallon per gallon displacement of foreign oil
- 150-200 year supply



Compressed Natural Gas (CNG) Basics

- Used in cooking, heating and transportation
- Drawn from pipeline, compressed then stored
- Dispensed similar to gasoline
- Stored in vessels and in cylinders onboard vehicles



Compressor Skid



↑ Storage Vessels

Fast Fill Dispenser & Time Fill Posts



Fast Fill Dispenser →



← Time Fill Hoses

How Municipalities Realize the Natural Gas Advantage

- Long Island Model
 - Refuse and recycling collected by third-party contractors
 - Some municipalities require 100% CNG trucks in bid (Town of Brookhaven, Town of Smithtown, Town of Huntington) 2011 Town of Islip, Town of Babylon
 - Contracts with fuel provider to provide station and fuel for contractors
- Alternative Fuel Preference
 - Municipality requires that collection contractors provide service with 100% or fixed percent of alternative fuel vehicles CNG, LNG, B100, etc.
- Government – Owned Fleets
 - Upon vehicle turnover, transition to CNG trucks
 - Contract with fuel provider to provide station and fuel
 - Some looking for unique vehicle financing

NG for Regional Trucking and Local Delivery

- Local and regional delivery trucks have been operating on CNG for decades
 - UPS largest commercial CNG fleet in US
 - Beer distributors
 - National Grid
- Product availability and engine development will be key to success
 - Both CNG and LNG applications are viable



Conclusions

- Natural gas is cleaner, cheaper than diesel, and domestically-sourced
- More natural gas vehicles hit the street every year
 - Proven technology
 - Excellent operability, fuel cost savings, better lifecycle cost than diesel
 - Good public policy
 - Better for the environment

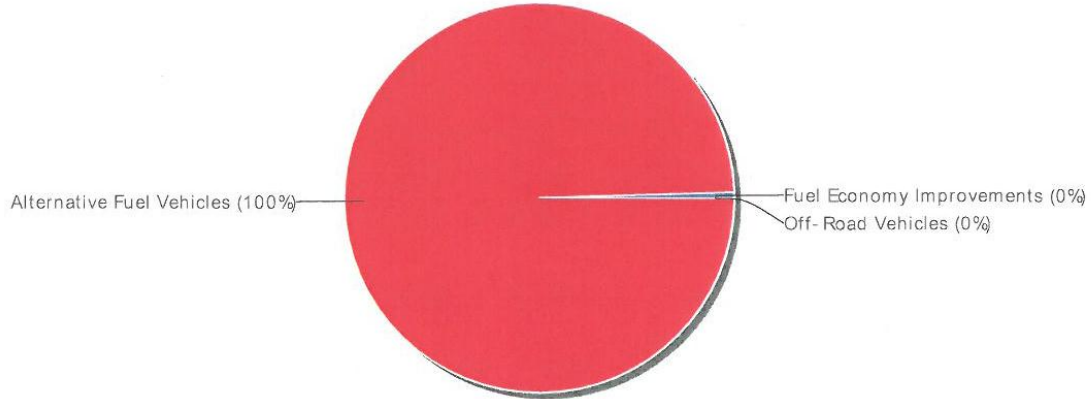


2010 ANNUAL REPORT

Greater Long Island Clean Cities

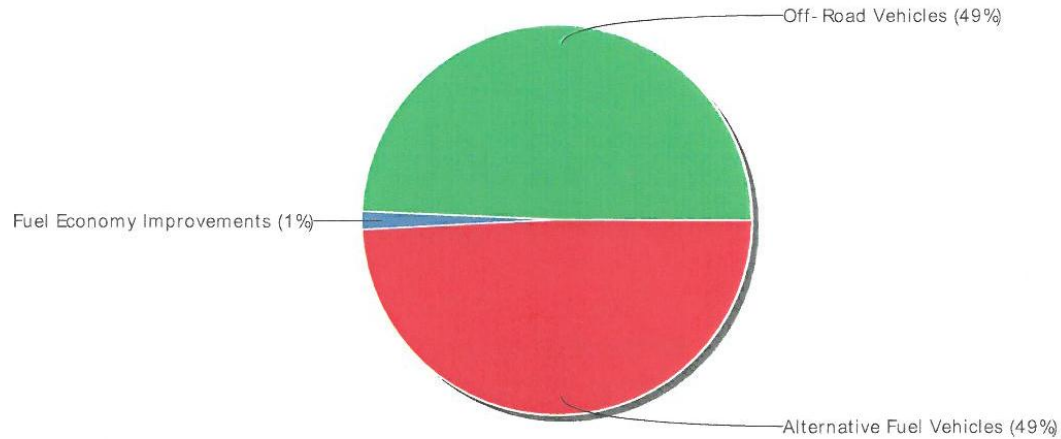
Gallons of Gasoline Equivalent Reduced

10,427,980 gallons



Greenhouse Gas Emissions Reduced

41,859 tons



Contact Information

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