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

Presented By: Rita D. Ebert
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 $0.50 - $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

CNG Storage

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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