

Southeast Regional Alternative Fuels Market Initiatives Program

Georgia Environmental Conference August 21-23, 2013



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Agenda



- Brief Background on Municipal Gas Authority of Georgia
- Natural Gas as a Transportation Fuel: Why Now?
- Challenge to Wholesale Adoption
- > Fleets: Leading the Way
- NGV Market Development







Gas Authority Background



- Largest non-profit, joint-action gas agency in the nation
- Established in 1987 by Georgia law
- Primary purpose is to provide adequate, dependable and economical supplies of natural gas to municipal distribution systems

Our Mission:

To provide municipalities a reliable, economical supply of natural gas and to assist them in developing and growing their gas systems to optimize the benefits of public ownership.



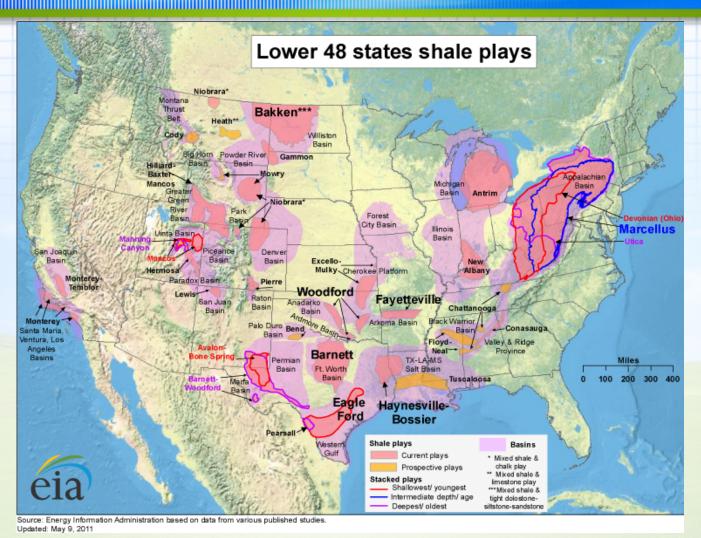


Gas Authority Background







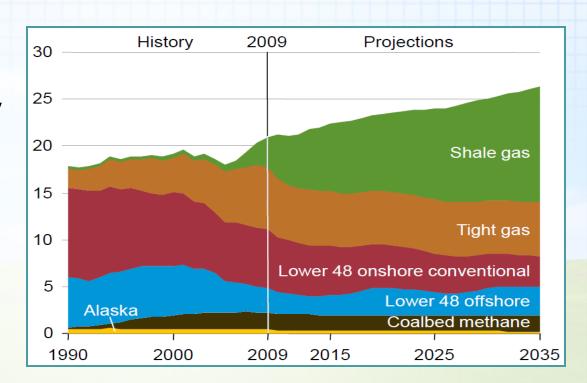






Drilling Technology Leading to a Robust Supply Picture

- Seismic technology
- Horizontal drilling
- Fracturing technology
- Ultra-deep water



SOURCE: EIA Annual Energy Outlook





CNG Protects Against Commodity Price Volatility for Retail Fuel

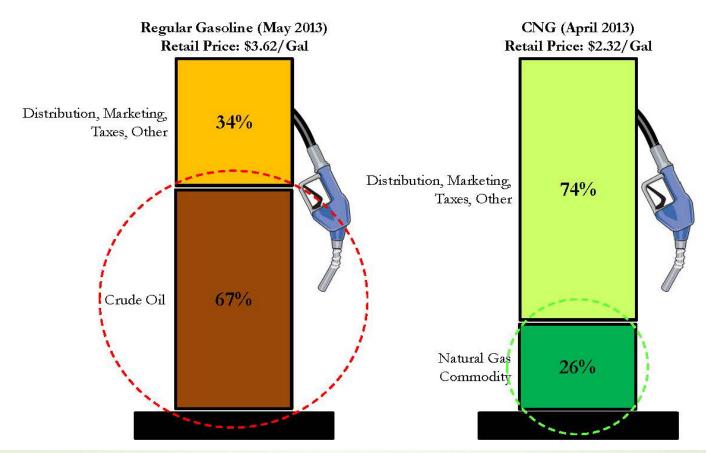


Illustration Source: VNG.co



Operating cost advantages, Lower emissions, & Energy Independence

Prompting both public and private sectors to enter the market

Dillon Trucking Company – Sample ROI Calculation

10 Trucks x 200,000 MPY 5 MPG = 400,000 DGE/YR 400,000 DGE/YR x \$1.50 fuel savings = **\$600,000** savings fuel costs per year



Incremental cost of NGV truck \$50,000 x 10 vehicles = \$500,000

Project Payback Period – 10 months

Challenge to Wholesale Adoption



NGV Market at a "Tipping Point"

Weak infrastructure is a major obstacle to development of the NGV market – despite the considerable cost advantages

Lack of NG stations – 65%

Complicated fuel tax – 22%

Lack of tax incentives – 24%

High relative cost of NG vehicles – 8%

Recent national survey – most important factors for NGV market development Source: FC Business Intelligence

Fleets: Leading the Way



Public Sector: The Municipal Natural Gas System In a position to accelerate NGV market development

- Fleet Operators Municipal fuel savings over gasoline and diesel
- Natural gas providers Increased revenues and margins for the natural gas business enterprise
- Access to low cost capital –
 Participate in NGV station design,
 planning, & construction
- Community & business relationships –
 Promote the utilization of NGV fueling among private and public fleet operators







Fleets: Leading the Way



Private Sector Fleets In a position to accelerate NGV market development

- Frito Lay
 - ✓ Seven public CNG stations across the U.S., 2013
 - ✓ 200 (+) CNG tractors, 20% (FL) fleet
 - One of the largest CNG fleets in U.S.
 - ✓ YR One: 2 million gallons/year, YR Five: over 8 million gallons/year.
 - ✓ Trillium CNG and Questar Fueling to construct the stations

KEY DRIVERS:

- Fuel Savings
- Greenhouse gas emissions profile
- Reduce the use of foreign oil





Fleets: Leading the Way



In a position to accelerate NGV market development

Waste Management





- ✓ Average annual reduction 8,000 gallons diesel / per diesel truck
- ✓ Average annual reduction 22 metric tons GHG emissions / per diesel truck
- ✓ Waste Management owns the stations, purchases the fuel, funds their construction
- √ 2200 (+) AFVs over 2,000 NGV trucks

KEY DRIVERS:

- Fuel efficiency / savings 15% by 2020
- Sustainability goals / reduced emissions 15% by 2020
- Reduced dependence on single fuel source







NGV Public Access Stations in Georgia

CNG Station Investment – Accelerated by Fleet GGE Demand

Operational CNG Stations

- City of Atlanta (3) American Fueling Systems, PS Energy* (2)
- City of College Park (1) Clean Energy
- City of Ellenwood (1) Dekalb County
- City of Lithonia (1) PS Energy
- City of Tucker (1) PS Energy
- City of Augusta (1) City of Augusta
- City of Valdosta (1) Langdale Fuels (opened, July, 2013)

*PS Energy Stations operated by Clean Energy







NGV Public Access Stations in Georgia

CNG Station Investment – Accelerated by Fleet GGE Demand

Planning / Construction Phase (Open 2013-14)

- City of Covington (I-20) Under construction, open 2014 (Covington)
- City of Perry (I-75) Open October, 2013 (Trillium CNG)
- City of Thomasville Under construction, open 2014 (ZEIT Energy)
- City of Tifton Planning, open 2014 (Trillium CNG)
- City Savannah Under construction, open 2014 (Colonial Group, Enmark)
- City of Atlanta Under construction, open 2013 (Premier Trans.)







Natural Gas Utility Investment in NGV Market Development

AGL CNG Infrastructure Program

- To invest \$11.57 million from Universal Service Fund (USF)
- AGL will not be the CNG Retailer
- AGL will install, own and maintain the CNG compressors, storage, controls, etc. ("CNG Equipment")
- CNG Retailer/Applicant to lease land for CNG Equipment
- CNG Retailer to install, own, and maintain the dispensers, card readers, etc. and make any site improvements
- Requires fleet commitment to use 20% of station capacity
- Includes Home Refueling Appliance (HRA) lease option
- 1) Fleet Operator Contract to Utilize minimum 20% station capacity, minimum 30,000 GGEs / YR for 5 years
- CNG Retailer Perform retail function for a minimum of 5 years, accept all major credit cards, purchase gas from certified AGL marketer
- 3) Property Owner Commit to lease space for a minimum term of 5 years, accessible to public 24/7

MGAG Fueling Program

- Invest \$5 million in NGV infrastructure from Authority reserves
- Joint Public / Private Venture
 - Strategic locations along major corridors in Georgia



Westport Wing - Largest Ford QVM (Qualified Vehicle Modifier)



- Westport Wing CNG Power Systems for Light-Duty Trucks
- Ford F-250 / F-350 Super Duty Trucks

- Bi-Fuel Chassis Cabs / F-350 / F-450 / F-550 Trucks
- Ford's largest partner QVM Program, 8 commercial CNG vehicles, 150 Ford Dealerships



Ford F-150 Pickups – Deliveries First QTR/2014







Transitioning to CNG Light Duty Vehicles – Broader Market Appeal

The CARLAB and Landi Renzo

- Lower cost & payback
- Appealing vehicles
- No compromise driving patterns
- CNG Capacity: 3 GGE 8 GGE











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Federal and State Legislative Update

Federal

- American Taxpayer Relief Act of 2012 (Extended through 2013)
- Refueling Equipment Tax Credit 30%, up to \$30,000
- Credit per GGE sold \$0.50; seller of the fuel
- Senator James Inhofe (R-OK) S. 1355; Incentivize manufacturers to produce NGVs by restructuring Corporate Average Fuel Economy (CAFÉ) standards

State

- ➤ HB 348 (Rep. Don Parsons) Tax Credits for Alternative Fuel Vehicles
- Re-introduce during the 2014 General Assembly Session

Note:

State of Florida recently passed a bill offering a 50% tax credit on NGVs up to \$25,000 per vehicle funded at \$6 million/year for 5 years, and a five year exemption from the state motor fuel tax.



Resources



> www.cngnow.com

- > www.ngvc.org
- http://www.afdc.energy.gov/vehicles/natural_gas.html
- rdill@gasauthority.com | PH: (678) 819-0914

