

# CNG Infrastructure Update



**Clean Cities – Atlanta  
“Waste to Wheels” Workshop  
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# AGL's CNG Experience

- AGLC has been in the Compressed Natural Gas (CNG) vehicle business since the 1970s
- AGLC owns 9 CNG stations on customer premises for fleet vehicles (local governments, forklifts, etc.)
- AGLC provides maintenance services to 30 additional fleet customers who own their own CNG stations (MARTA, Cobb County Transit, etc.)
- AGLC has a department of full time CNG station technicians, 24-hr. emergency dispatch, etc.

# AGL Partnership with MARTA

- AGL and Metro Atlanta Rapid Transit Authority (MARTA) developed a CNG transit bus program in 1996
- AGL maintains 2 fueling stations for MARTA's 350 CNG buses



- Program Benefits:
  - Saves millions of dollars on diesel fuel costs
  - Displaces about 150,000 barrels of oil each year
  - Reduces emissions by millions of pounds of pollutants

# MARTA Perry Blvd. Capital Improvements

- \$3.2 million upgrade
- Completed April 2012
- Integration of 16 year old station with new State-of-the-Art equipment
- Increased fueling capacity and reliability



# Perry Blvd. Capital Improvements

1. Added 4th engine-drive compressor
2. New Gas Dryer
3. Additional 60,000 cubic feet of storage
4. New Dispensers (4 Transit & 1 Light Duty)
5. New Piping Configuration, Valve Panel & Control System (Adds Fueling Matrix)
6. Added remote access to HMI and controls



# Atlanta Public Access CNG Stations

## Existing (5)

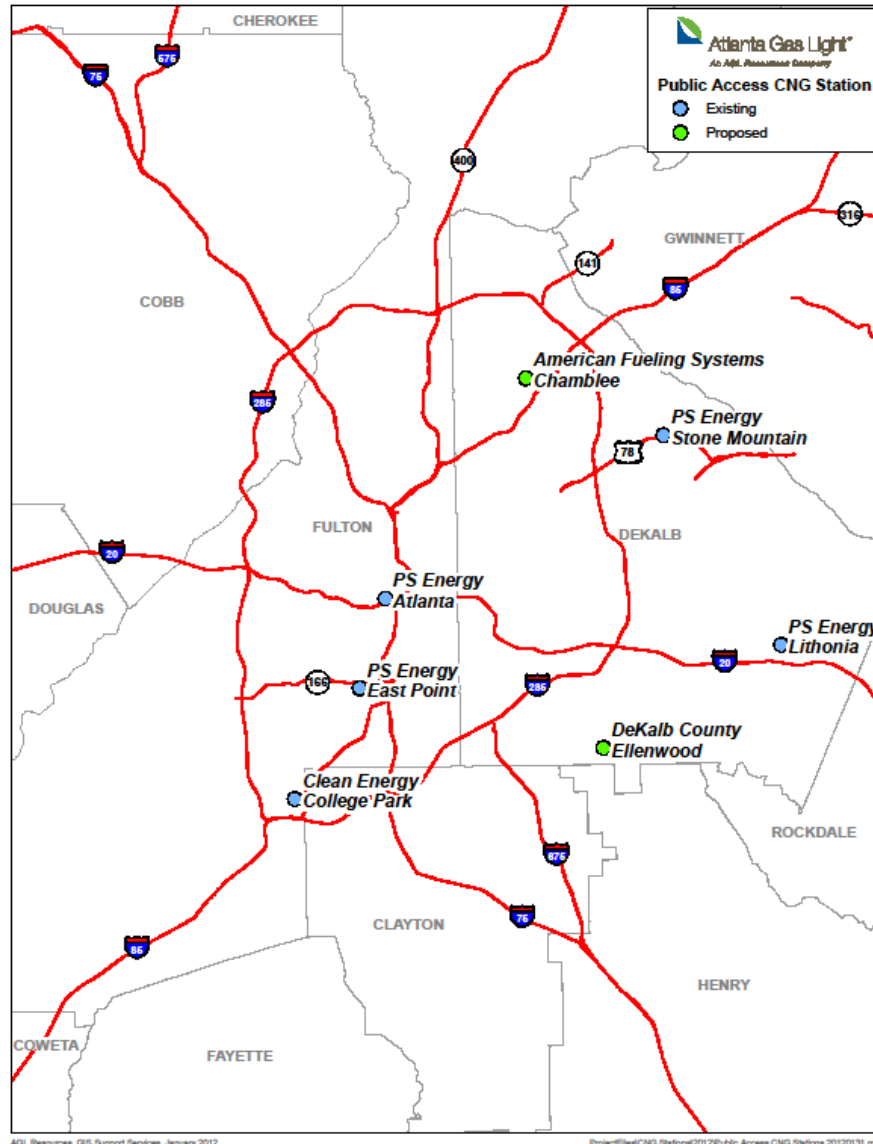
Clean Energy,  
College Park

PS Energy  
- Whitehall St.

PS Energy  
- Lithonia

PS Energy  
- Stone Mtn.

PS Energy  
- East Point



## Under Construction (2)

DeKalb Co.  
- Ellenwood

American Fuel  
Systems  
- Buford Hwy.

# AGL CNG Infrastructure Program

- 5 year program to invest \$11.57 million from 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

# Equipment Sizing/Cost

## CNG EQUIPMENT ESTIMATED INSTALLED COSTS

NOMINAL STATION SIZE	STATION DESIGN WITH 50% REDUNDANCY	
75 gals/hr.	(75 cfm x 2) + 36,000 scf storage	\$642,000
150 gals/hr.	(150 cfm x 2) + 36,000 scf storage	\$836,000
400 gals/hr	(400 cfm x 2) + 36,000 scf storage	\$1,105,000
750 gals/hr.	(500 cfm x 3) + 72,000 scf storage	\$1,685,000
1500 gals/hr	(1000 cfm x 3)+ 72,000 scf storage	\$2,300,000



# Eligibility Criteria

## 1) Fleet Operator

- Contract to utilize at least 20% of station capacity
- Minimum 30,000 Gasoline Gallon Equivalents (GGE)/yr. for 5 years

## 2) CNG Retailer

- Perform CNG retail function for a minimum term of 5 years
- Accept all major fleet cards, MasterCard, and Visa
- Purchase gas from certificated marketer at AGL meter

## 3) Property Owner

- Commit to lease space for a minimum term of 5 years
- Accessible to other fleets and public 24/7

# AGL CNG Program – CNG-1 Rate

Delivery charges - Same as General Gas Delivery Service.

## Facilities Charges

- 1) Operations and Maintenance (O&M) Charge – A pass through of actual O&M costs at each CNG Station
- 2) Equipment Usage Fee (EUF) - 10% of CNG Equipment cost
  - Adjusted for Utilization Percentage (UP)
  - Adjusted for Customer Investment Percentage (CIP)

$$\text{EUF} = \text{CNG Equipment Cost} \times 10\% \times \text{UP} \times (1 - \text{CIP})$$

# AGL CNG Program – Reserve Account

EUF revenue from Phase 1 stations will be held in a Reserve Account for the following purposes:

1. Equipment replacement and/or upgrades of Phase 1 stations
2. Home Refueling Appliance (HRA) lease program
3. Construction of Phase 2 stations

# CNG Program Timeline

- AGL issued RFP for project applications on March 1, 2012
- Applications were due April 16
- AGL issued notices of awarded project May 25
- Applicants now have until Aug 23 to finalize and execute contracts with AGL (mid-August)
- Construction will begin after the first of the year with the first stations coming on line in Summer 2013
- Any funds awarded to applicants who fail to sign contracts with AGL will be made available to other applicants on a first-come-first-served basis

# RFP Selection Criteria

Criteria	Weighting
1) Cost Effectiveness Ratio (CER) = Throughput / Investment	90%
2) Location/Station Characteristics <ul style="list-style-type: none"><li>–Strategic fit for area wide coverage, green corridors</li><li>–Proximity to interstate or major highways</li><li>–Visibility/ease of access/security</li></ul>	5%
3) Growth Potential <ul style="list-style-type: none"><li>–Potential additional fuel usage from anchor fleet</li><li>–Proximity to other fleets in the area</li><li>–Population density of surrounding area, etc.</li></ul>	5%

# AGL CNG Program - Awarded Stations

## **Metro Atlanta**

- FireSide Natural Gas, Roswell
- Horizon Fuels, an affiliate of Jacoby Energy Development, Midtown
- Premier Transportation, Forest Park
- City of Atlanta, North Avenue
- City of Atlanta, Claire Drive

## **Macon**

- Mansfield Oil, Pio Nono Avenue

## **Savannah**

- Colonial Group through its Enmark Subsidiary, O' Leary Road
- Nopetro, Dean Forest Road

## **Valdosta**

- The Langdale Company, James P. Rogers Drive

# AGL is a FuelMaker Distributor



## Home Refueling Appliance (HRA or "Phill")

- Fuels at rate of ~ ½ gallon/hr.
- Electrical: 240 VAC, 0.8 kWh
- Dimensions HxWxD: 30" x 14" x 13"



## Vehicle Refueling Appliance (VRA)

### FMQ-2-36

- Fuels at rate of ~ 1 gallon/hr.
- Electrical: 240/208 VAC, 7 amps
- Dimensions LxWxH: 21" x 20" x 39"



### FMQ-8-36

- Fuels at rate of ~ 4 gallons/hr.
- Electrical: 240 VAC, 28 amps
- Dimensions LxWxH: 33" x 48" x 32"

# AGL CNG Program – HRA Lease Option



- AGL Services is distributor of FuelMaker “Phill” HRA appliance
- Fuels at rate of approx. ½ gallon per hr.
- 240 VAC power supply
- ~ \$0.20 per GGE electric compression cost

## Lease Payment

Standard - \$120/month (includes \$2,000 installation)

USF plan - Reduced to \$60 for first 500 units



# For More Information

See Atlanta Gas Light's CNG Infrastructure Plan homepage:

[www.atlantagaslight.com/cngplan](http://www.atlantagaslight.com/cngplan)

or contact:

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