

# CNG Review

# CNG statistics

- A little over 8 gallons of gasoline equal 1 MMBtu
- Annual CNG consumption for CO is 1.9 MM GGE (GGE = Gasoline Gallon Equivalents)
- Annual CNG consumption for WY, CO, UT – 9.1 MM GGE (extrapolation based on stations)
- *Daily gasoline consumption in WY, CO, UT – 9.7 MM gallons*
- CNG consumption in WY, CO, UT equivalent to 0.25% of gasoline consumption
- CNG load equivalent to 2.7 MMBtu per day of Nat Gas

# Current CNG Stations in WY, CO and UT

	Private Access	Public Access	Total
Wyoming	5	3	8
Colorado	4	14	18
Utah	36	24	60
Total	45	41	86

Data Source: Alternative Fuels and Advanced Vehicles Data Center, DOE

# CNG vehicle issues

- Only Honda offers a factory CNG vehicle
- EPA requires certification of after market conversions
- After market conversion \$8,000 to \$12,000 per vehicle
- Compressor for home use \$3000 - \$4000 for overnight capability
- Growth in UT at times straining capacity of public infrastructure (3500 vehicles)

Data Source: Denver Post, Questar Corp website

# Potential for public owned vehicles

	Total Daily Gasoline Consumption (thousands of gallons)	Public Owned Truck and Bus Share of Registration	Equivalent MMBtu of CNG per Day
Wyoming	963	2.6%	2,800
Colorado	5,697	1.9%	12,300
Utah	3,068	0.8%	2,800
Total	9,729		17,900

Data Source: EIA, Federal Highway Administration, WPA calculations and assumed pro rata use

# Rockies CNG Infrastructure Sketchy

- Most CO and UT stations support local use in metro Denver and Salt Lake City
- Wyoming public stations in Evanston, Rock Springs and Cheyenne (one station each)
- Average range of vehicles 170 miles
- Rock Springs to Cheyenne beyond range for most vehicles with current infrastructure
- Denver to Salt Lake City out of range

# CNG going forward

- Initiatives exist including tax credits, grants and various state fleet programs
- Price is very competitive to gasoline CNG is \$1.50 in Cheyenne per GGE (\$13.16 MMBtu natural gas equivalent)
- Price at pump reflects distribution and infrastructure costs and profit
- 1% of three state daily gasoline demand is 11,000 MMBtu per day of natural gas = 1.2% of pipeline export capacity
- Still a chicken or egg problem