

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