



Compressed Natural Gas

BCC Workshop
Mar 19, 2013



Variables

- Accessibility
- Range
- Cost differential – fuel
- Cost differential – vehicle
- Maintenance facilities



Accessibility

- 1,100 stations in the U.S. - only half are available to the public
- 200,000+ U.S. gas stations



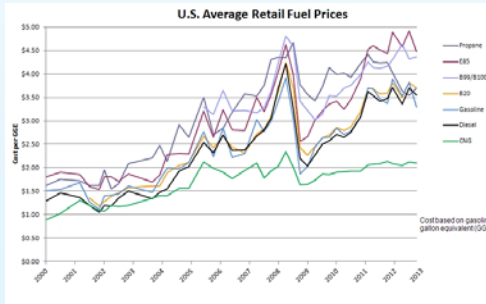
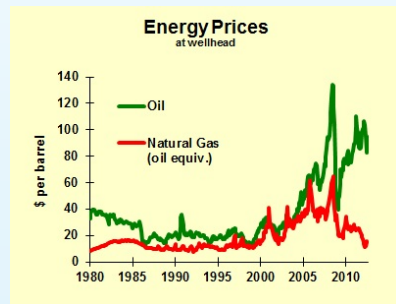
Range

- 25% as dense as gasoline
- Requires larger tanks
- ??????????????????



Cost differential – fuel

- Current spread
 - Gasoline \$1.74
 - Diesel \$1.95
- Federal subsidy - \$.50 / gge



Cost differential – vehicle

- Light Trucks / Vehicles \$10 - \$15 K
- Ambulance \$13 - \$18 K
- Heavy Trucks / Buses \$30 - \$50 K



Return On Investment

	\$ 1.00	\$ 1.50	\$ 2.00	\$ 2.50
Miles per Year	Payback in Years			
10,000	19.5	13.0	9.8	7.8
15,000	13.0	8.7	6.5	5.2
20,000	9.8	6.5	4.9	3.9
25,000	7.8	5.2	3.9	3.1
30,000	6.5	4.3	3.3	2.6
35,000	5.6	3.7	2.8	2.2

* Assumes \$39,000 conversion cost



Maintenance Facilities

- Air quality and safety
- Equipment conversion
- Maintenance costs????



What are Others Doing

- Marion County
- Charlotte County Schools



What are We Doing

- Participating in negotiation process with school district
- Reviewing our own fleet for potential
- Pilot project with school if negotiations successful.
- Research & monitor