Natural Gas Costs in an "O"volving World

Geoffrey Emerson

Strategic Public Affairs Inc.

Where is Natural Gas G "O"ing

- Supply is determined by price
- Price is determined by demand
- Demand is determined by price
- Price is determined by supply

A F"O"rmula for Change

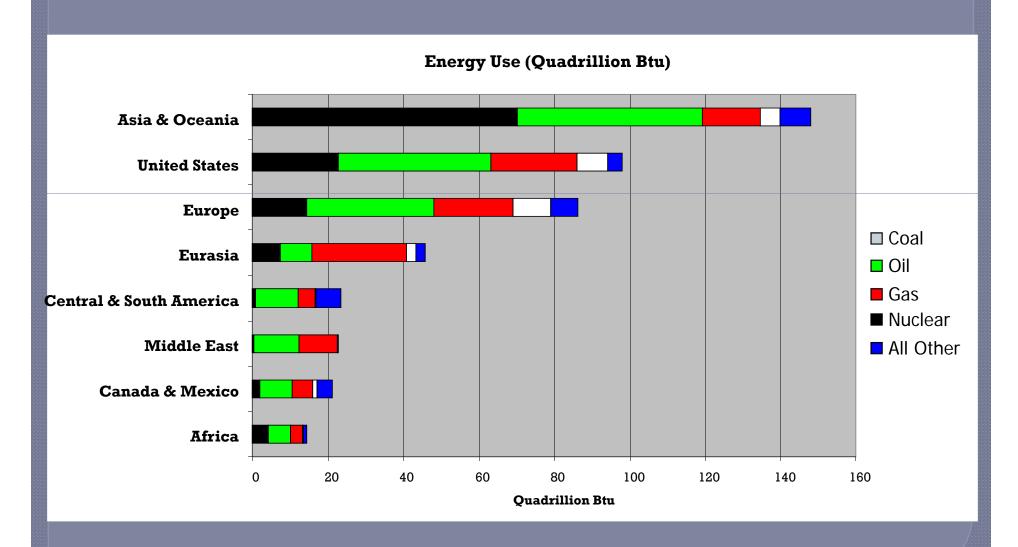
Sound energy policy is necessary to avoid an energy crisis......

Usually an energy crisis is necessary to produce reasonable (sound) energy policy

Reality v. P"O"litics

- Energy Commodities v. Energy Independence
- Bio fuels v. cheap gasoline
- Electric reliability v. wind energy
- Carbon fuels v. renewables
- More productive economy v. Global warming
- Electric generation v. Clean electric cars
- Toxic waste disposal v. Solar power
- Energy prices v. Energy subsidies

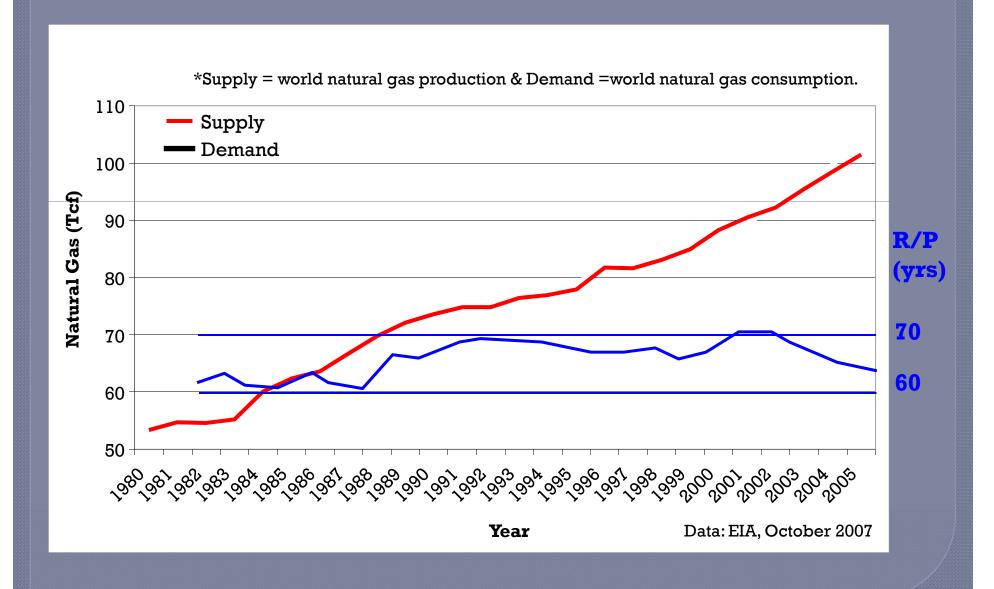
Gl"O"bal Energy



Data: EIA, October 2007

We depend upon fossil fuels today.

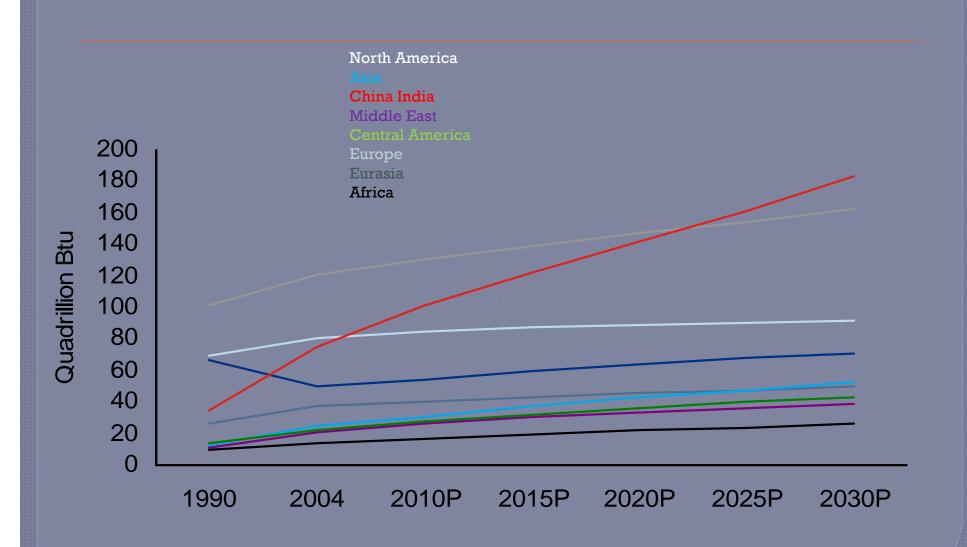
Gl"o"bal Natural Gas Supply and Demand



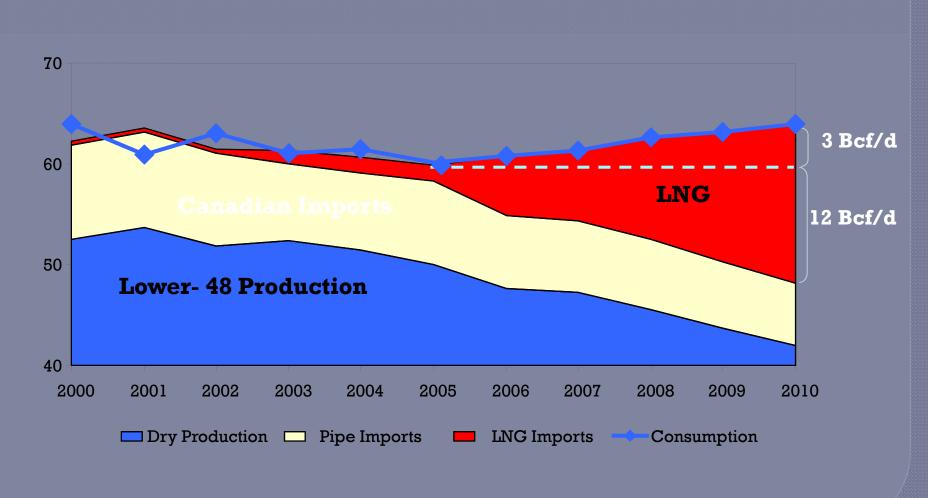
World Gas Prices Led Higher by Crude "O"il Advance



Gl"O"bal Demand Driven By Asia

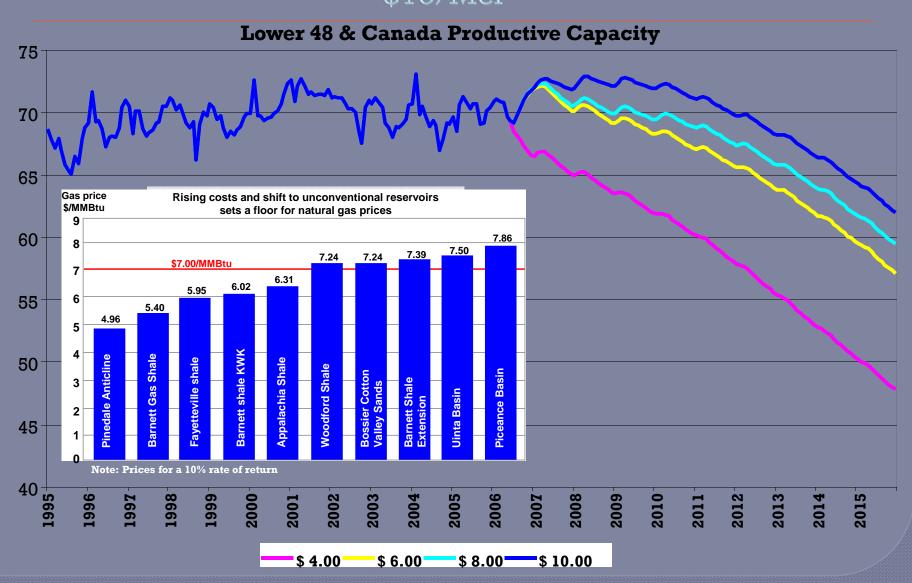


Production and Imports vs. C"O"nsumption

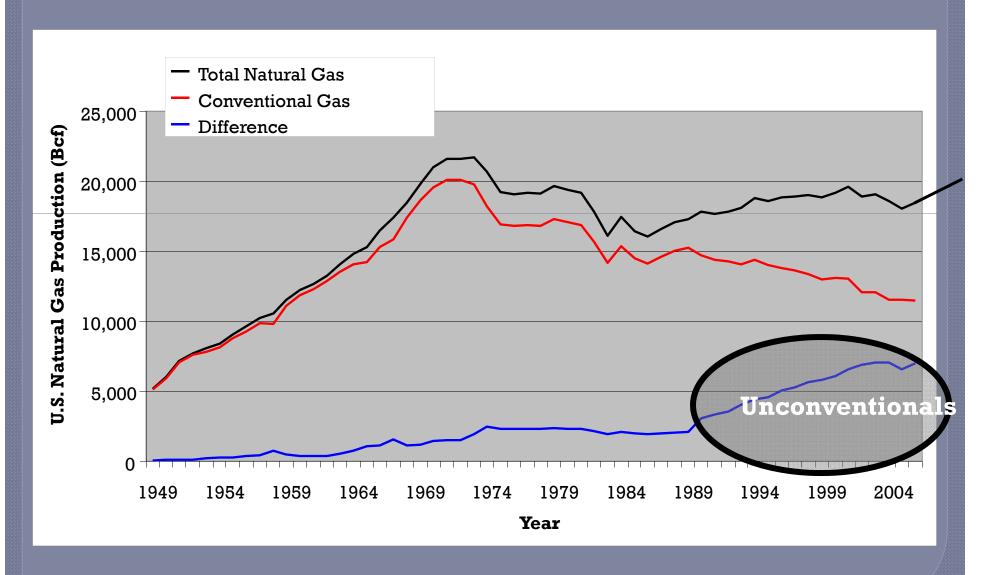


Source: Lower- 48: IHS 2006; Canadian Imports & Consumption: EIA, AEO 2006

CERA/IHS: North American Production N''O''t Sustainable @ \$10/Mcf

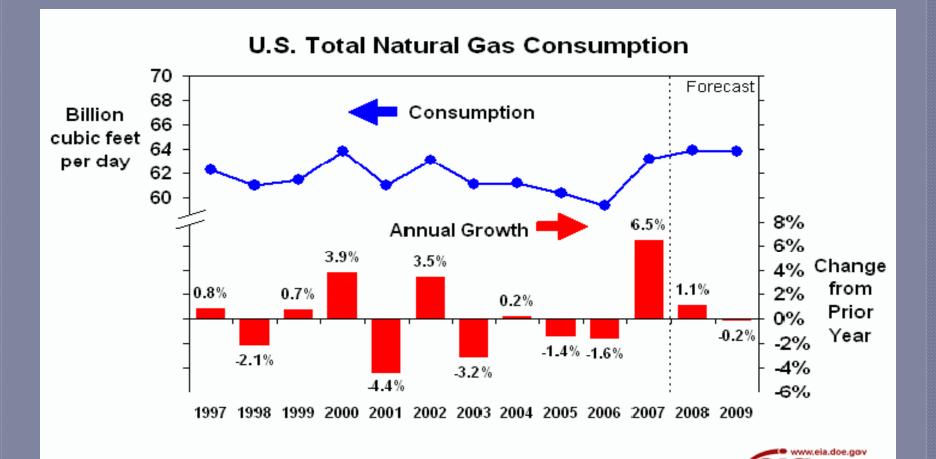


U.S. Natural Gas Pr"O"duction



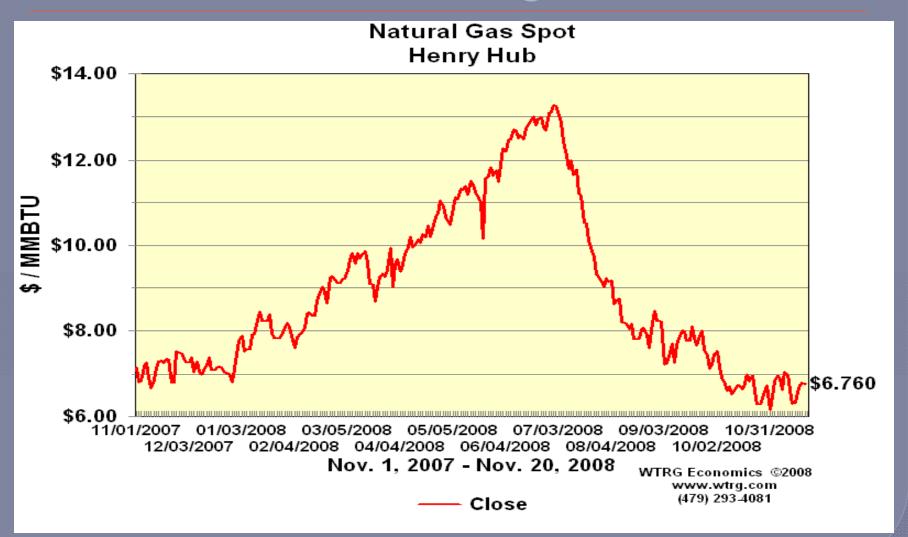
Conventionals: EIA (1949-1990) and NPC (1991-2015)
Unconventionals: 1970-1988 data from GRI, 1999. Updated data from 1989-2005 is from EIA, 2007

Where will the consumption of Gas G"O"?

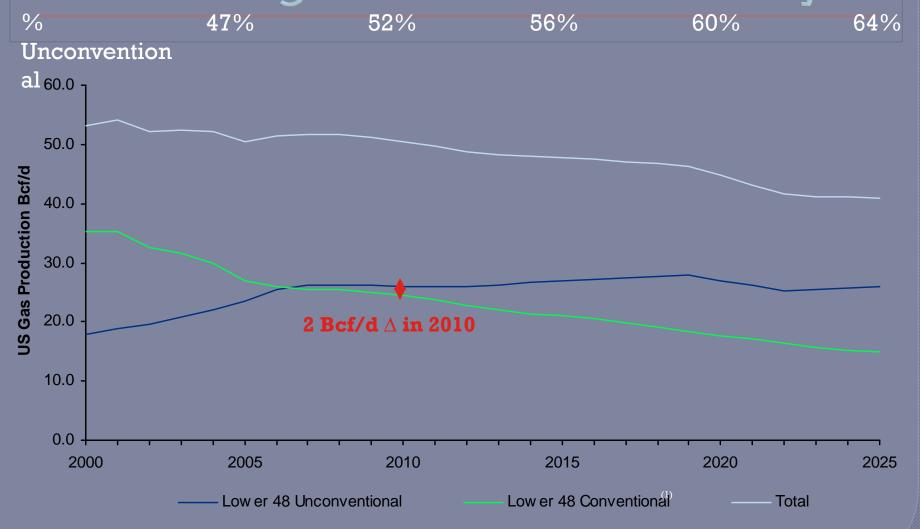


Short-Term Energy Outlook, November 2008

Where is the Price of Gas G"O"ing?



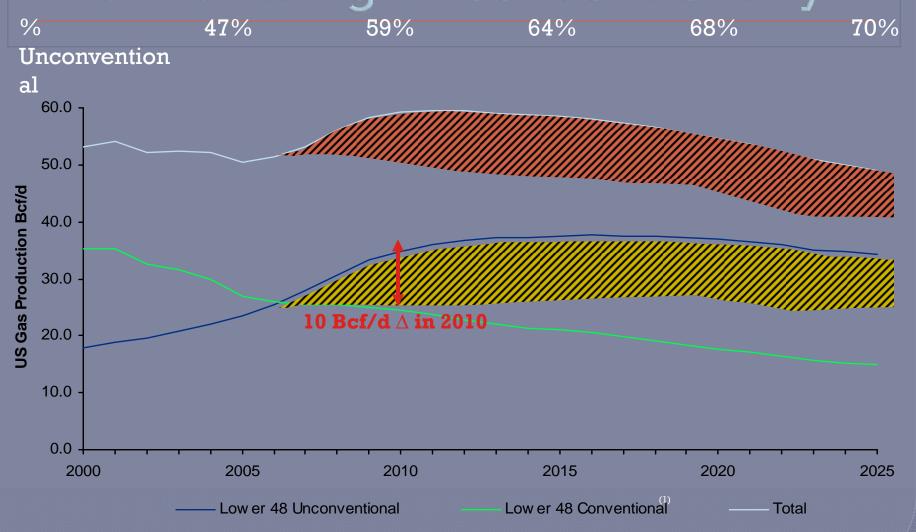
U.S. Natural Gas Supply is Growing Unc''O'nventionally



Source: EIA (for unconventional) and Wood Mackenzie (for conventional). Does not include Alaska.

(1) Includes onshore and offshore conventional.

U.S. Natural Gas Supply is Gr"O"wing Unconventionally



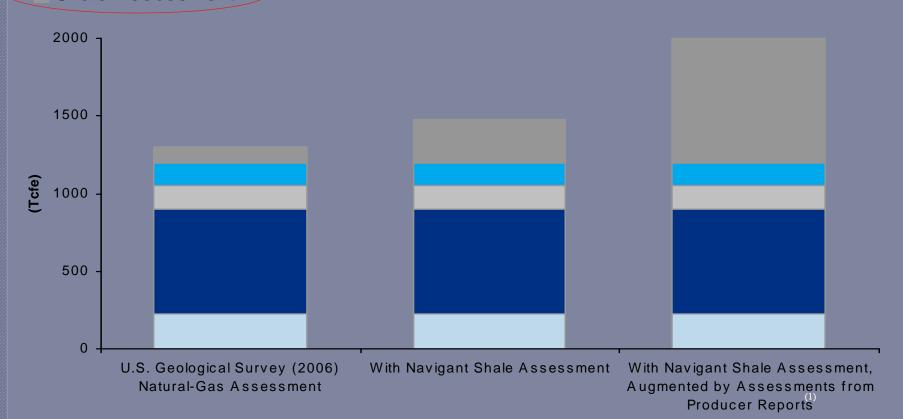
Views on Shale P"O"tential Are Changing

U.S. Natural Gas Resources likely to be Recovered



- Alaska
 - Shale Assessment

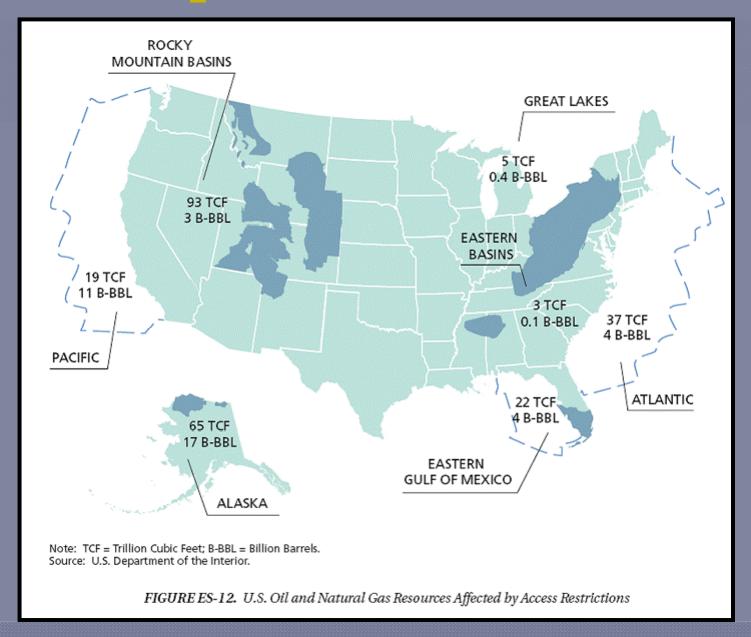
- Traditional Natural Gas less Shale
- Total Coalbed Methane



Resource P"O"tential: "Land Grab" is the Recent M&A Driver

Barnett Shale (2001-2006)			Trans. Value	TV / Proved	
Year	Buyer	Seller	(\$MM)	(\$/Mcfe)	\$ / Acre
2001	Devon Energy	Mitchell Energy	\$3,500	\$1.47	\$1,100
2006	Devon Energy	Chief Oil & Gas	\$2,200	\$3.57	\$7,100
2006	Chesapeake	Sinclair Oil & Gas	\$800	\$5.28	\$6,400
Hayne	sville Shale (2008)				
			Trans.		
Year	Buyer	Seller	Value (\$MM)	TV / Proved (\$/Mcfe)	\$ / Acre
Year 2008	Buyer Plains Exploration				\$ / Acre \$15,000

More "O"ptions with More Access



Thank You f"O"r your attention

Geoffrey Emerson Strategic Public Affairs

713-299-9011

geoffrey.emerson@strategicpublicaffairs .com