

US Natural Gas Market Outlook: Opportunities For New Production

Presented To:

Energy Summit 2009 Energy Market Challenges and Opportunities October 28, 2009



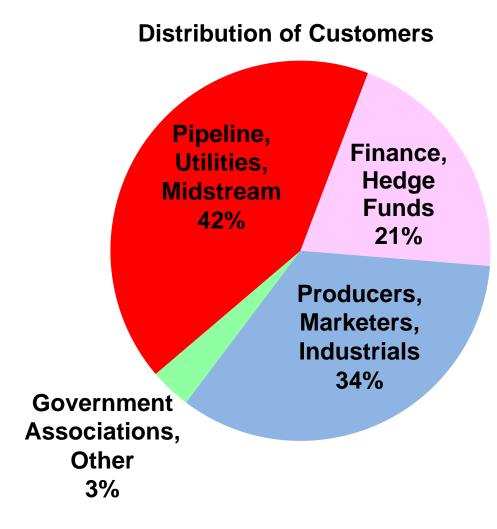


Key Points

- ▶ Technology is unlocking unconventional gas resources, and they, in turn, are transforming the US energy market.
- As a consequence, natural gas should no longer be viewed as unavailable, unreliable or too expensive. If anything, the nation has too much gas for the current market to absorb.
- Exploration and production is shifting to the lowest cost supply areas with implications for states that are dependent on natural gas related revenues.
- ▶ Pipeline infrastructure issues will bedevil producer prices and efforts to grow demand.
- ▶ Today's low prices are likely to persist for many years. Demand must rise significantly relative to supply for prices to move beyond the \$3.00 to \$5.00 range.



Who Is BENTEK?



- ▶ BENTEK is the leading US natural gas market analytics firm
- We provide:
 - Daily assessments of the US natural gas market fundamentals
 - Analysis of major market developments
 - Near real-time Market Fundamentals Data
 - Consulting and Advisory Services
- Over 230 clients include producers, marketers, pipelines, banks, LDCs and end users as well as govt agencies.
 - FERC
 - EIA
 - State utility commissions

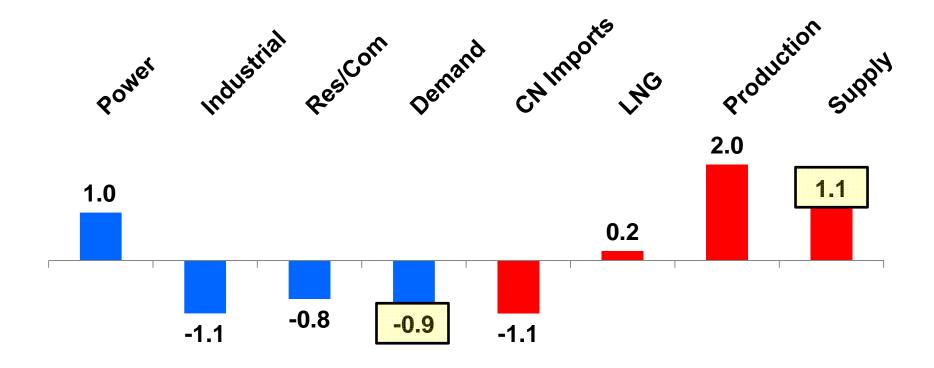


National Trends





Inventories Are Building at 2.0 Bcfd



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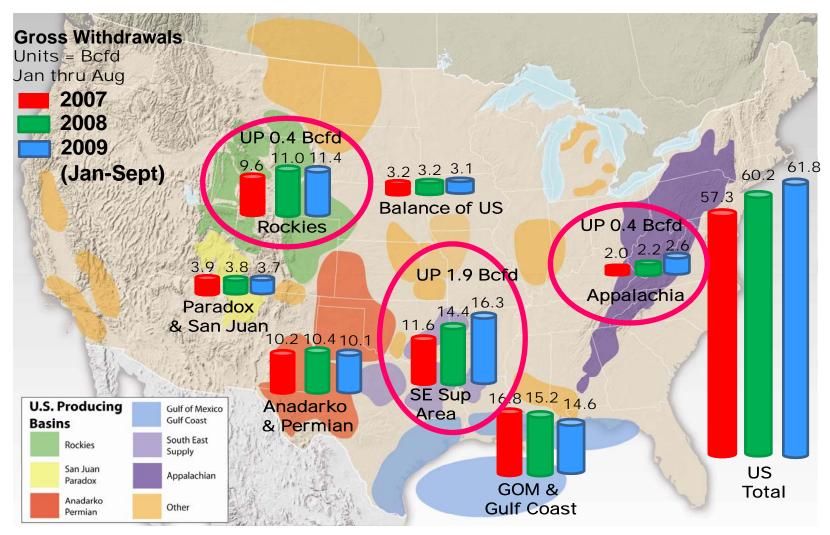
Units = Bcf/d

Data through October 9, 2009

www.bentekenergy.com Source: BENTEK Energy, LLC



Between Jan & Sept, Production Grew 1.6 Bcfd Over 2008

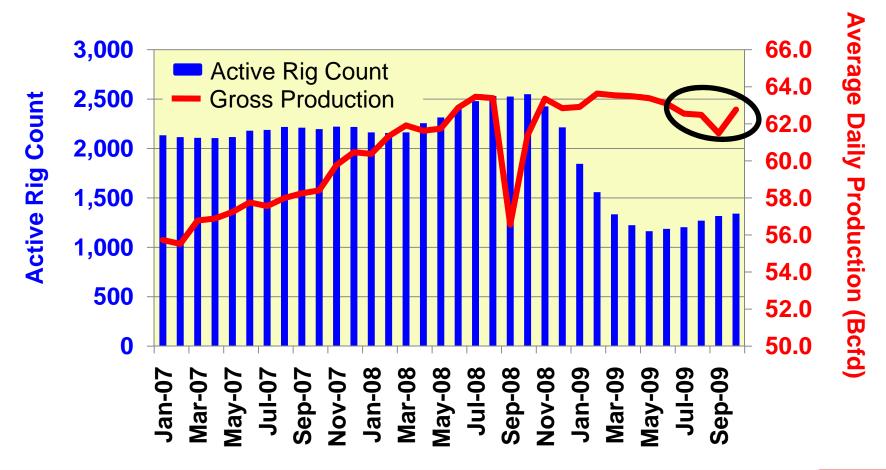




The Rig Count Has Fallen By Over 47% Since Oct 08

But Production Is Actually Increasing

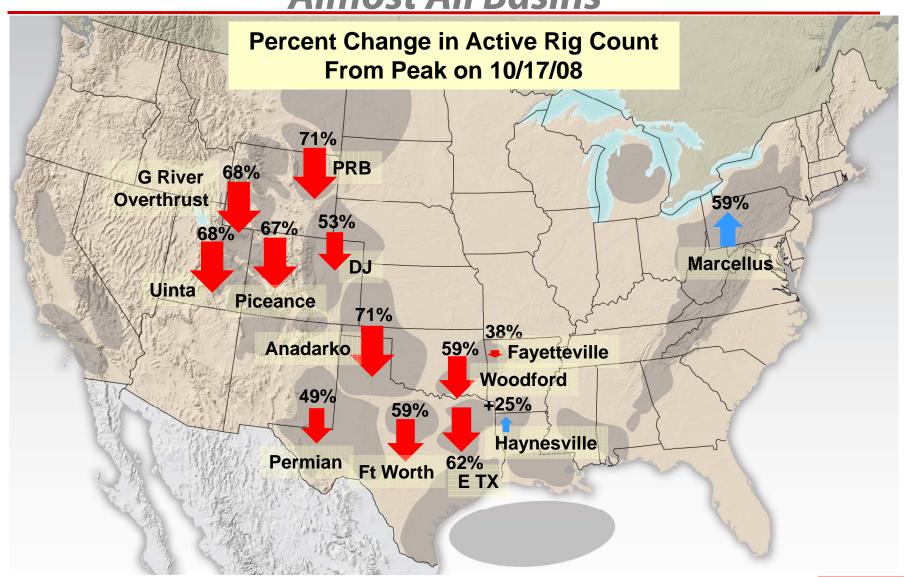
Data Through Oct 9, 2009



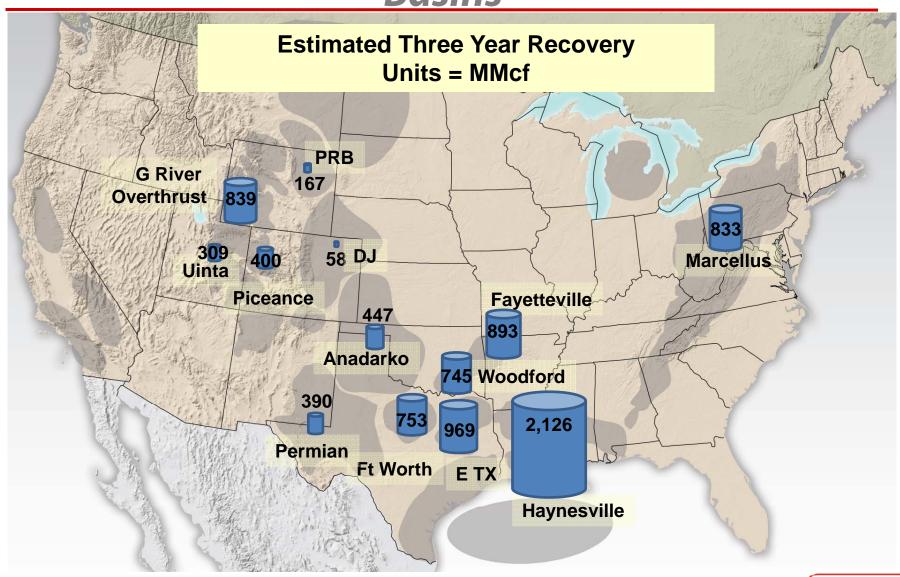
Source: BENTEK, RigData



The Active Rig Count Is Down In Almost All Basins

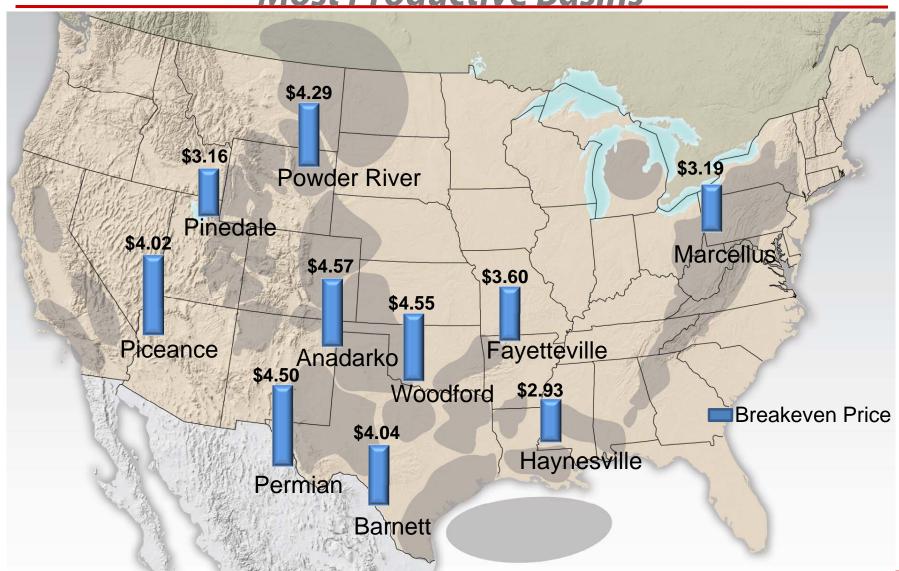


Bentek Activity Is Shifting To The Most Productive Basins





Lowest Breakeven Prices Associate With The Most Productive Basins

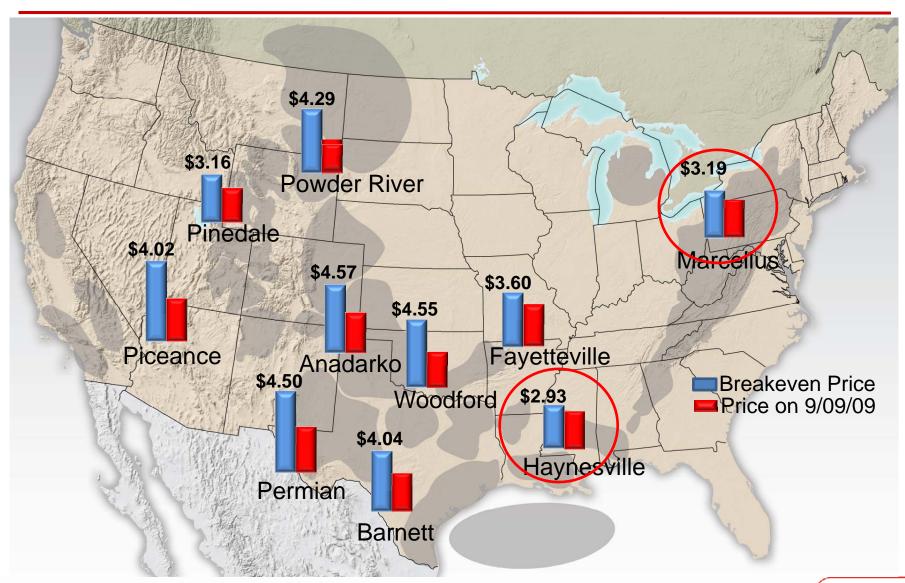


www.bentekenergy.com Source: ICE, BENTEK Energy

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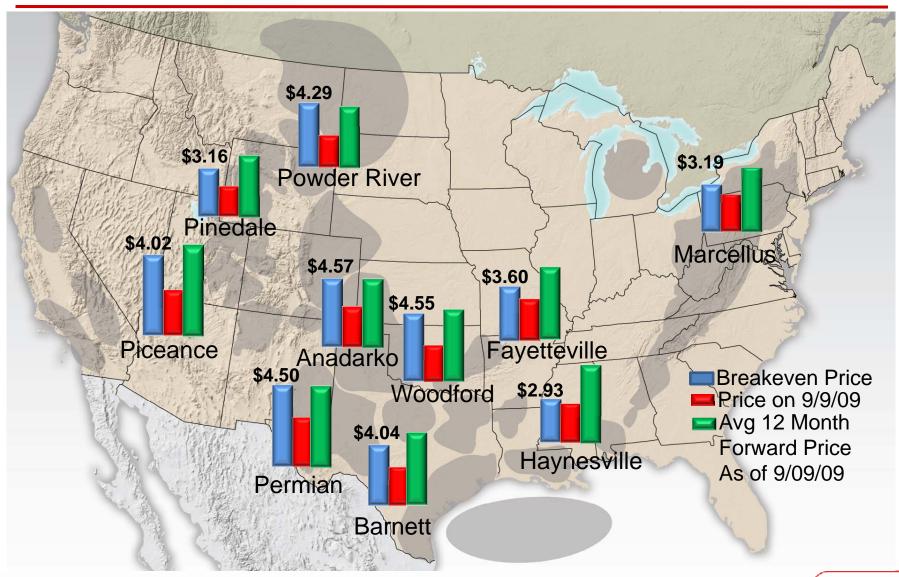
Several Basins Are Under Water at Current Prices



www.bentekenergy.com Source: ICE, BENTEK Energy 11



Forward Prices Encourage Drilling Everywhere

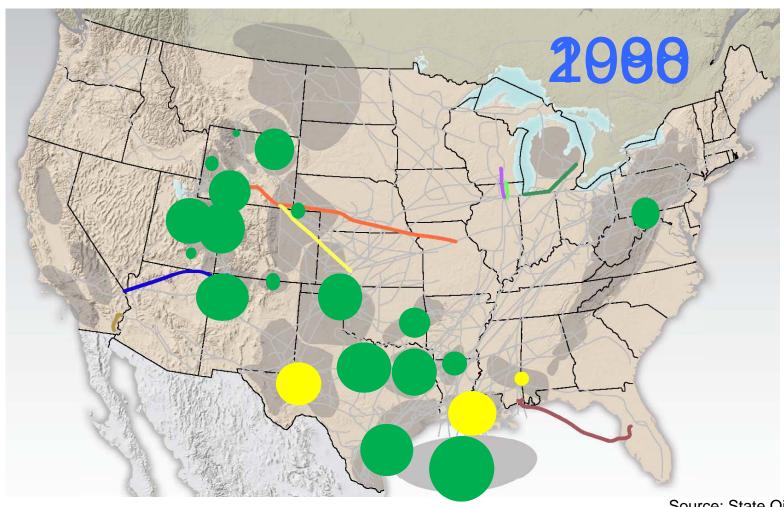


www.bentekenergy.com Source: ICE, BENTEK Energy

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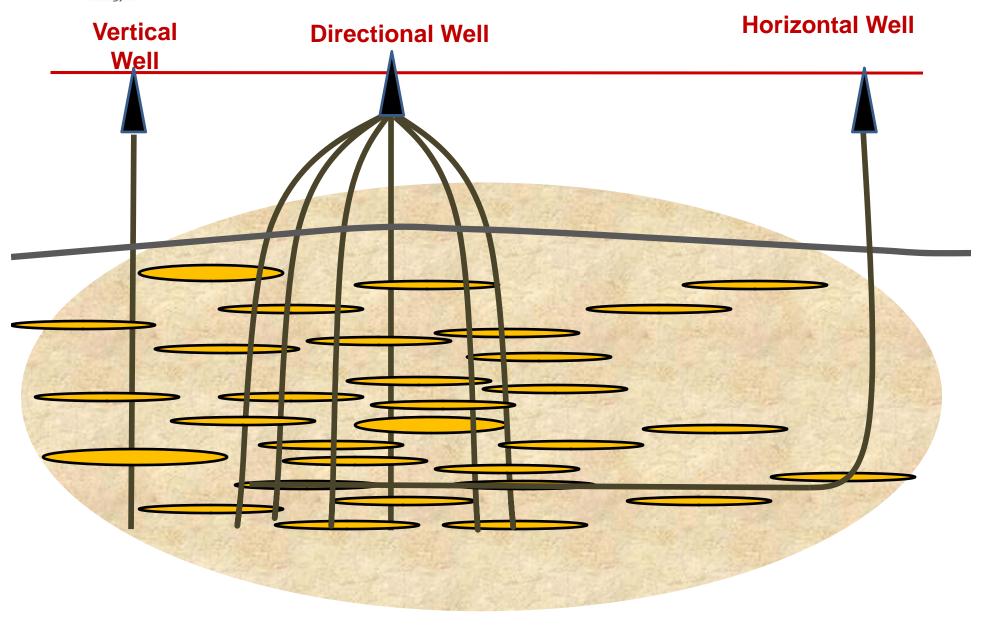


The Geography of Production Is Changing



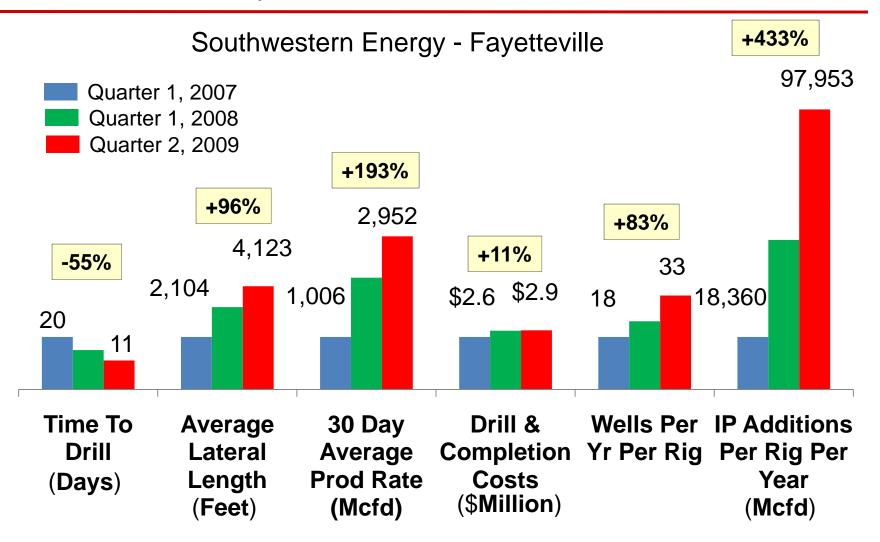
Source: State Oil & Gas Commission Reports







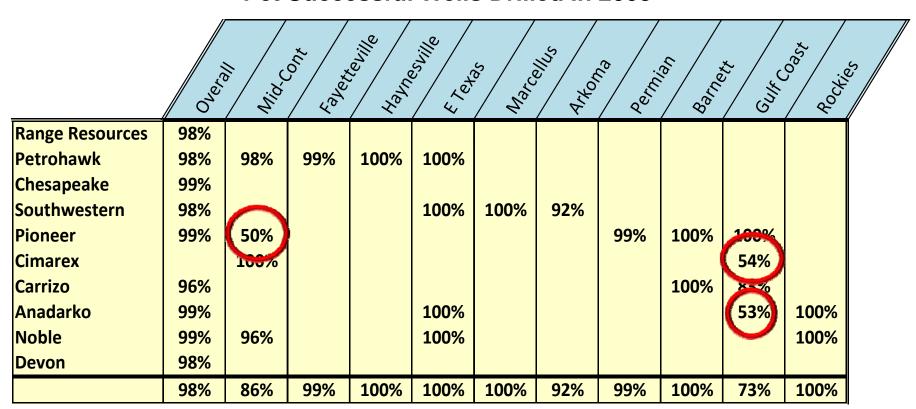
Efficiency Gains Will Drive Down Costs





The Form Of Drilling Risk Is Shifting

Pct Successful Wells Drilled In 2008

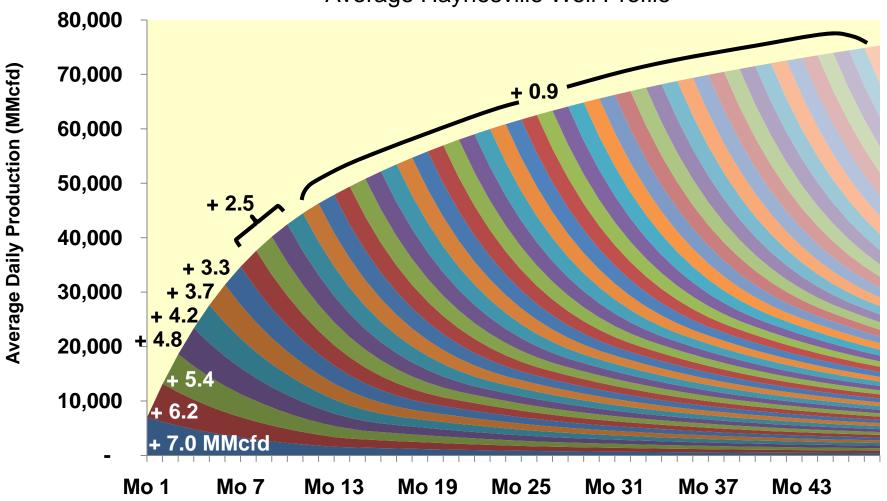


Source: Company Annual Reports and Investor Presentations



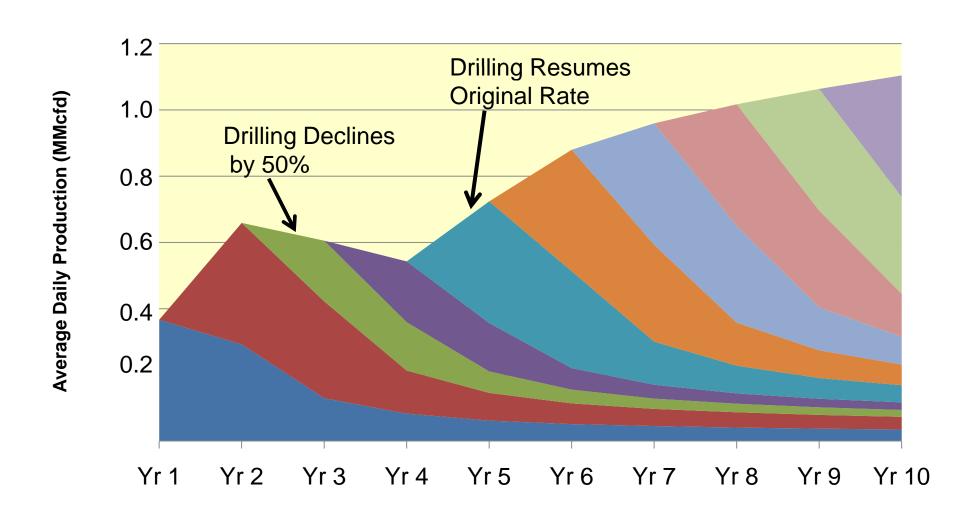
Steep Declines Yield Less Incremental Production From Each New Well







Production Rates Are More Responsive



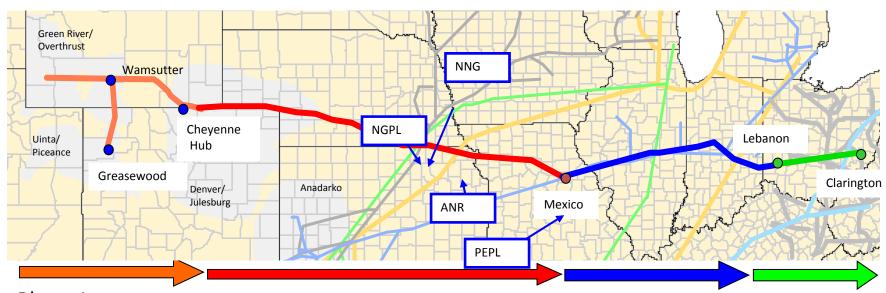


Some Producers Are Insulated From The Current Price

	2009		2010		
Company	Vol/	% Tot Vol	Price \	Vol/% Tot Vol	Price
Chesapeake	NG Swaps	52%	\$7.34	13%	\$9.78
	NG Collars	38%	\$7.12-\$8.80	8%	\$9.18
Forest Oil	NG Swaps 19	3.4 Bbtu	\$7.58	160.0 Bbtu	\$7.58
	NG Collars 4	0.0 Bbtu	\$7.31-\$9.76		
Cabot	NG Collars 5	4.0 Mcfd	\$7.33 -\$9.04		
	NG Collars 1	8.0 Mcfd	\$10.47-\$14.63	3	
	NG Fixed 4	4.0 Mcfd	\$12.18	53.0 Mcfd	\$11.43
	NG Collars 3	5.0 Mcfd	\$9.51-\$12.10		
	NG Collars 2	22.0 Mcfd	\$8.29-\$10.02		
Southwestern	NG Swaps 3	6.0 Bcf	\$8.30	36.0 Bcf	\$9.04
	Collars 1	4.0 Bcf	\$8.71-\$11.69	14.0 Bcf	\$8.29-\$10.57
Petrohawk	Swap-Collars 3	3.0 Bbtu	\$7.02-\$12.22	148.0 Bbtu	\$5.54-\$10.06
Encana	Fixed/Puts	2.0 Bcfd	\$6.09		
Bill Barrett Corp	Swap-Collar 16	7.0 MMBtud	\$6.83	634.0 MMBtud	\$6.60



Rockies Express Will Take Rockies Gas To OH

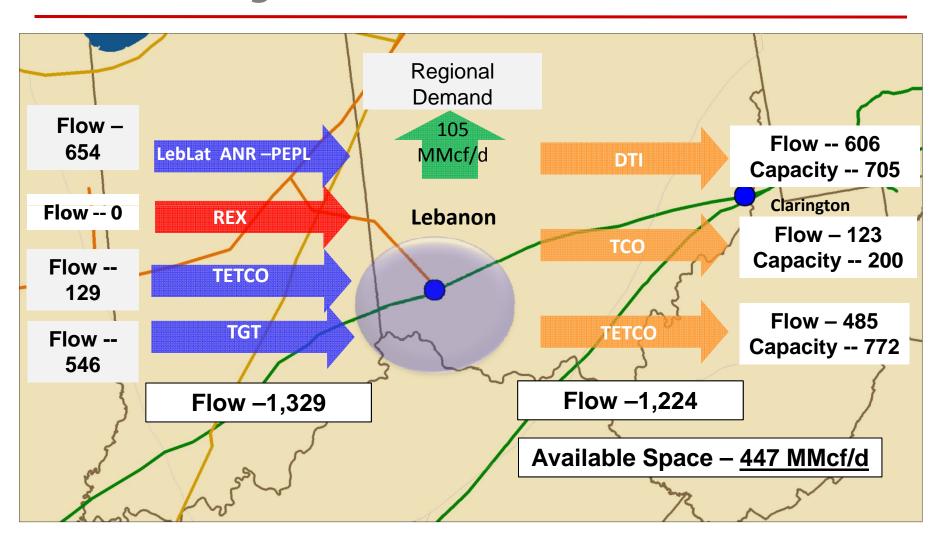


Phase I – Greasewood to Wamsutter to Cheyenne Hub - Feb 14, 2007

REX West/ Phase II – 1.4 Bcf - Cheyenne Hub to Audrain County, MO – May 2008 REX East/Phase III – Audrain County, MO to Lebanon, OH – June 2009 – 1.5 Bcf; Then 1.8 Bcfd to Clarington, OH in November 1, 2009

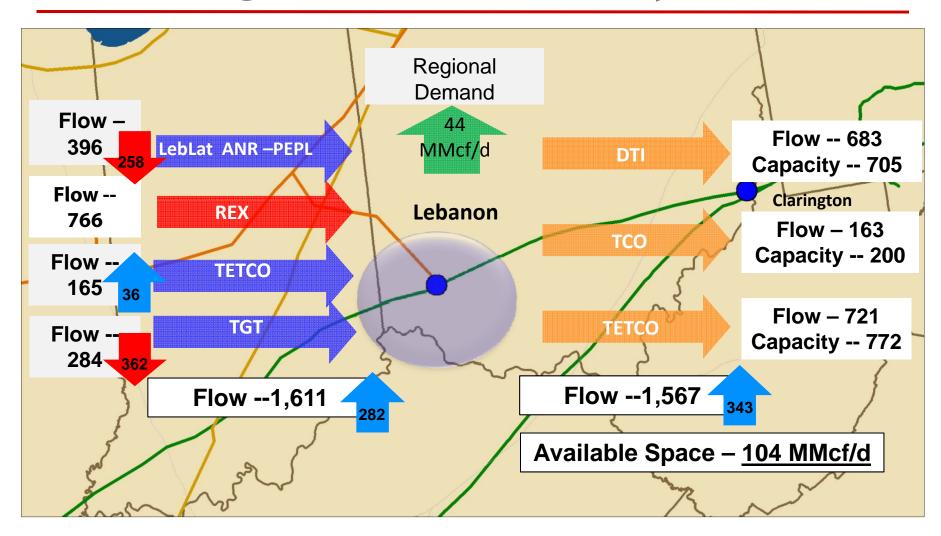


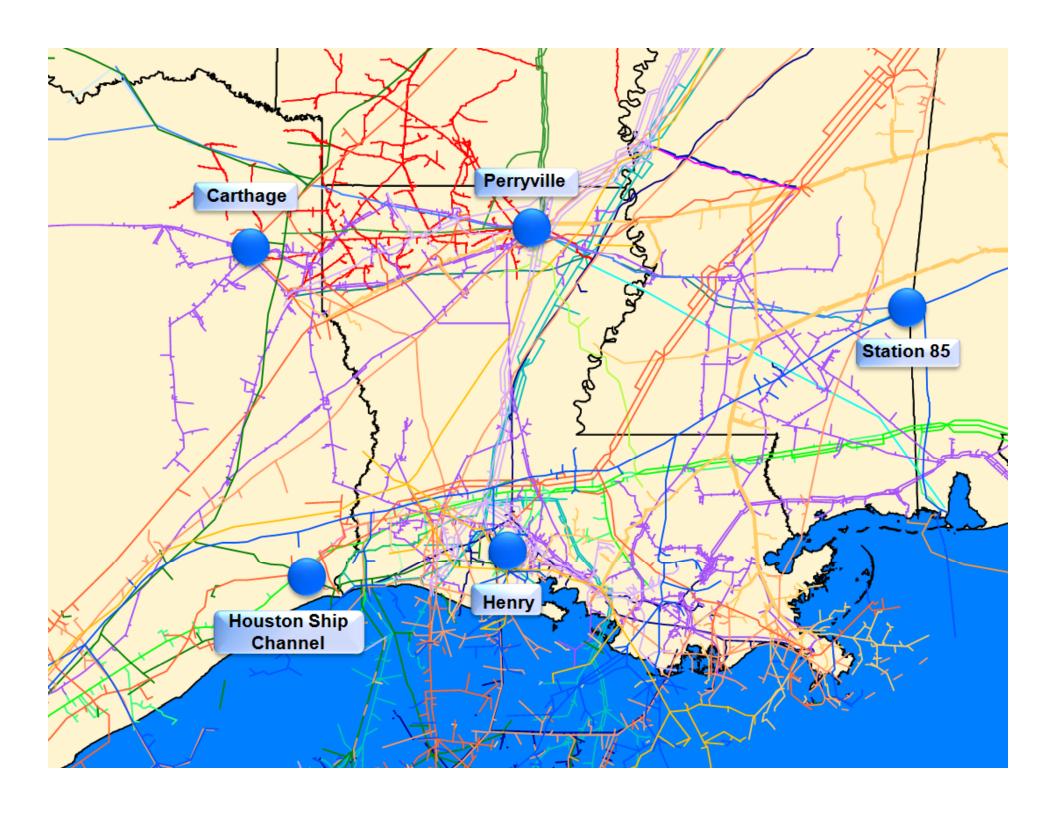
Average Lebanon Flows – June 2009





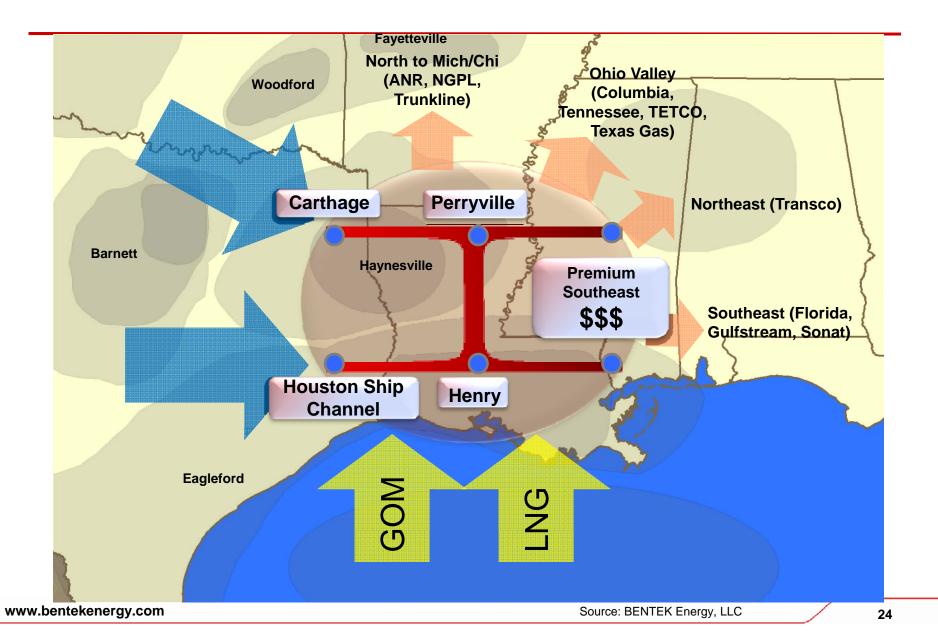
Average Lebanon Flows – July 2009





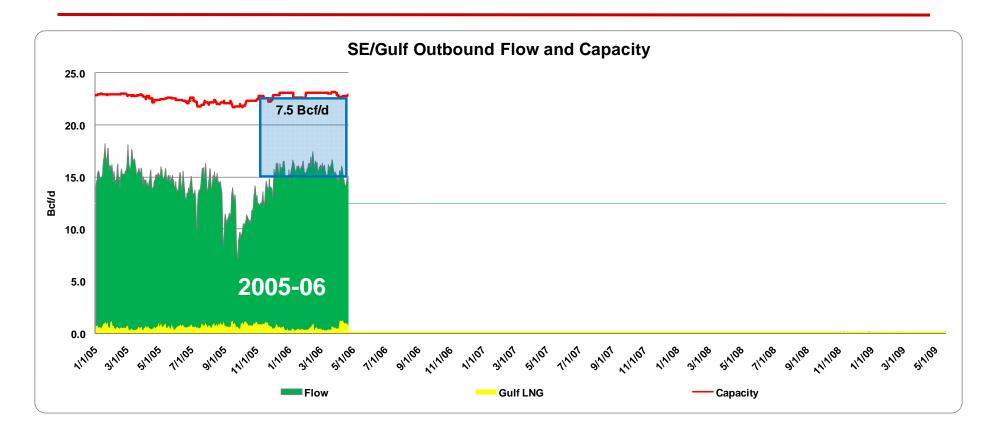


The Southeast Flow "I"





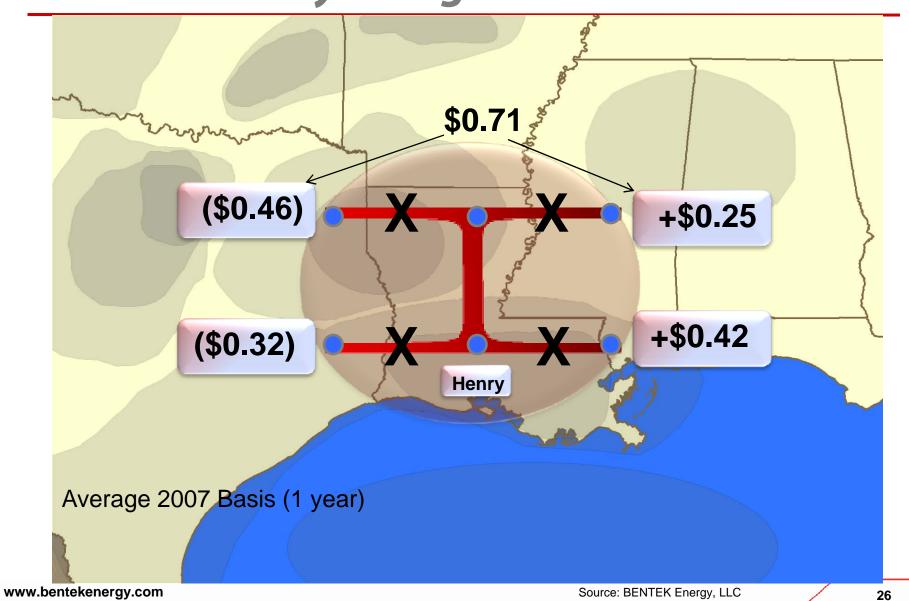
S/E Gulf "Bubble" Exports



www.bentekenergy.com Source: BENTEK Energy, LLC 25

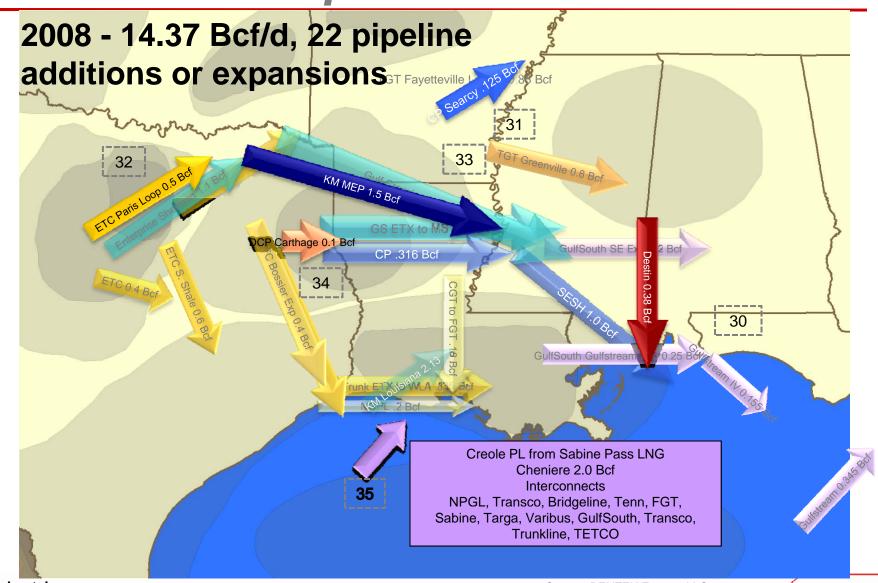


The Way Things Were in 2007





2008 'Super Build'

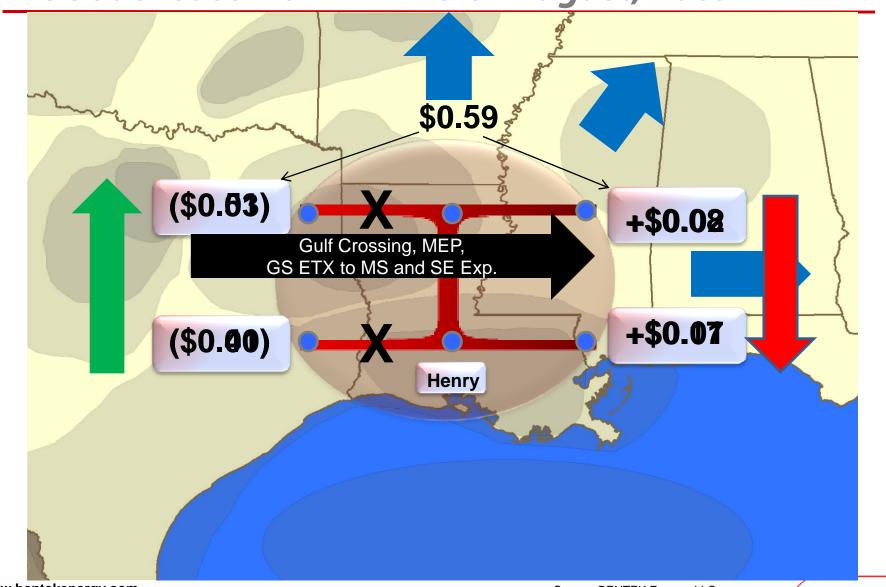


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Source: BENTEK Energy, LLC



The Southeast Flow "I" As Of August, 2009

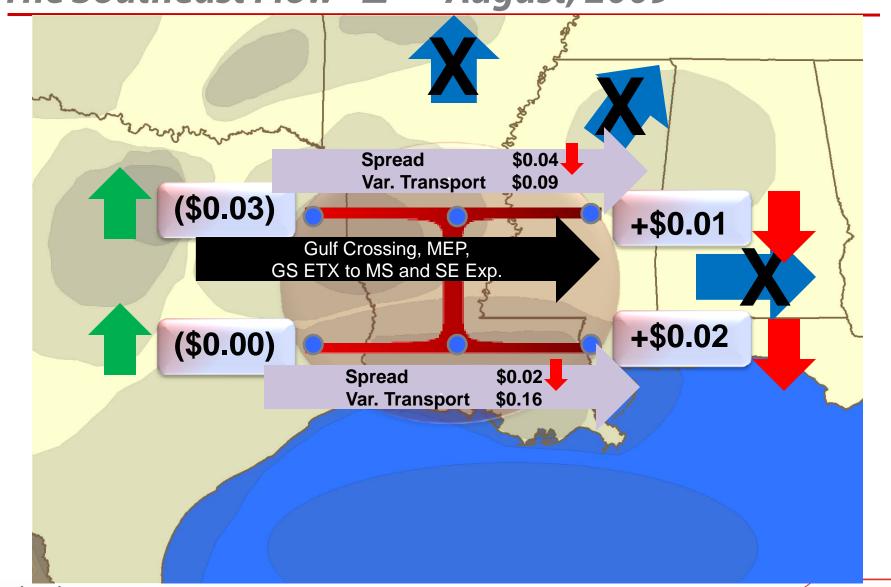


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Source: BENTEK Energy, LLC



The Southeast Flow "I" – August, 2009

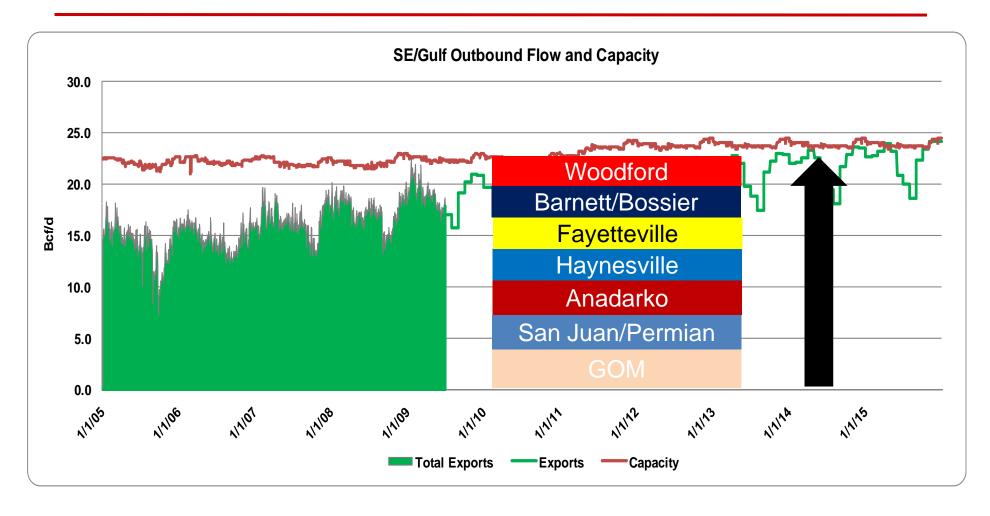


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Source: BENTEK Energy, LLC



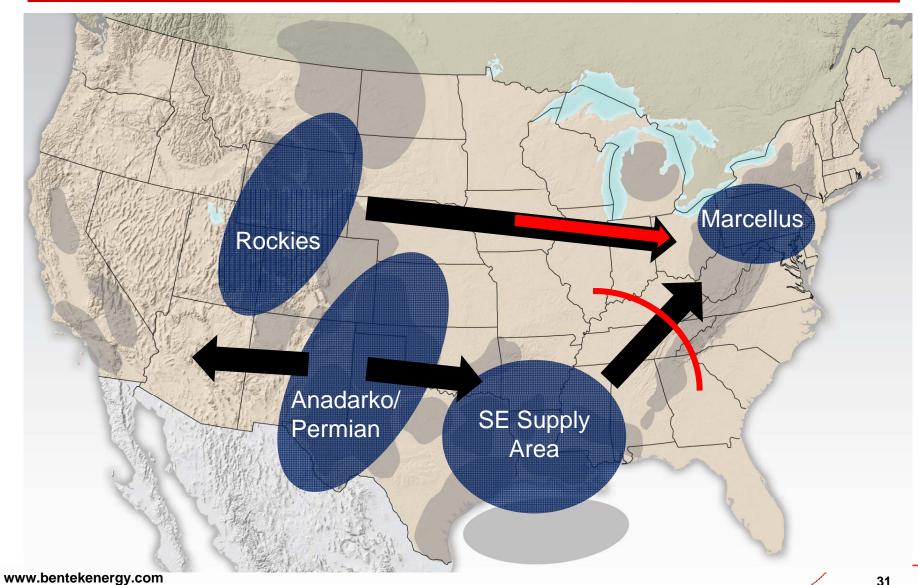
Basin Competition



www.bentekenergy.com Source: BENTEK Energy, LLC 30



Market Implications of Flow Dynamics





Conclusions

- ▶ Technology is unlocking US unconventional resources and fundamentally reshaping the natural gas industry.
- ➤ The US now has abundant natural gas supplies and a robust productive capacity that should dampen historic price volatility.
- ♣ Gulf export pipeline constraints will continue to place additional pressures on regional prices and impact the nation's ability to increase demand.
- If the US is serious about improving energy security and reducing carbon emissions, policies should build on the positive attributes of natural gas – it is abundant, domestic, relatively inexpensive, and clean.
- ▶ Natural gas should be the central focus of our energy policy; it can achieve results now with minimal public finance requirements.
- ▶ Political interference in the market may obviate realization of this historic opportunity.



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