

Changing Regional Midstream and Transportation Developments

Terry McGill

Energy Summit 2009

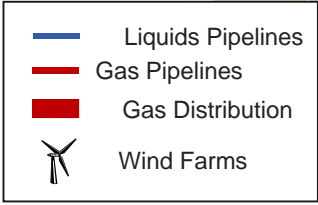
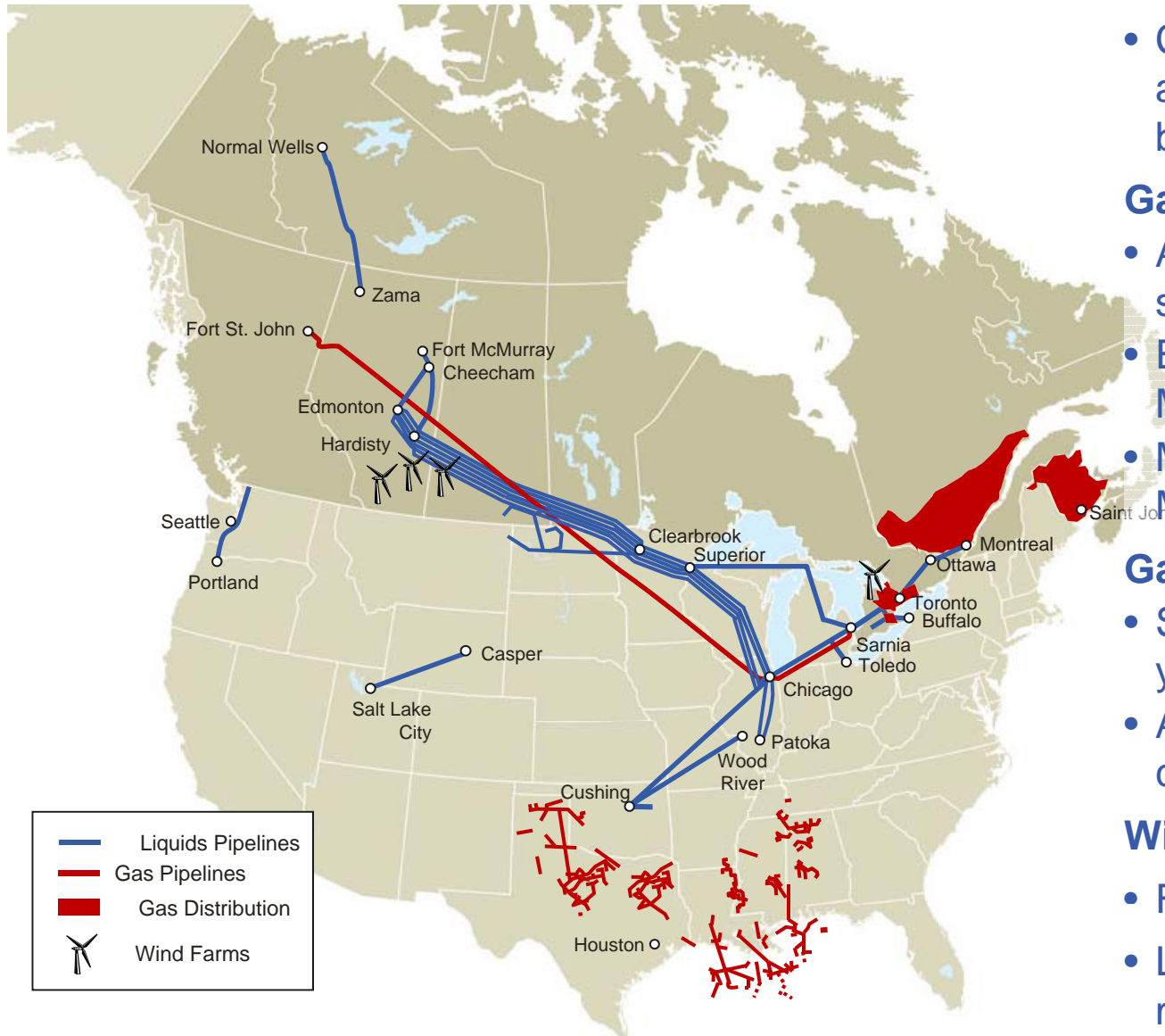
Energy Market Challenges & Opportunities

LSU Center for Energy Studies

October 28, 2009



Certain information during this presentation will constitute forward-looking statements. These will include, but are not necessarily limited to, throughput volumes, financial projections, expansion or acquisition projects, external economics and competitive factors. These statements are based on certain assumptions made by management. Accordingly, actual results may differ materially from current estimates. You are referred to the Enbridge Energy Partners' SEC filings, including the annual Form 10-K, for a more detailed discussion of risk factors.



Liquids Pipelines

- Current mainline capacity of approximately 1.9 million barrels per day (bpd)

Gas Pipelines

- Alliance/Vector pipeline system
- Enbridge Offshore (Gulf of Mexico)
- Midcontinent Gathering & Midstream

Gas Distribution

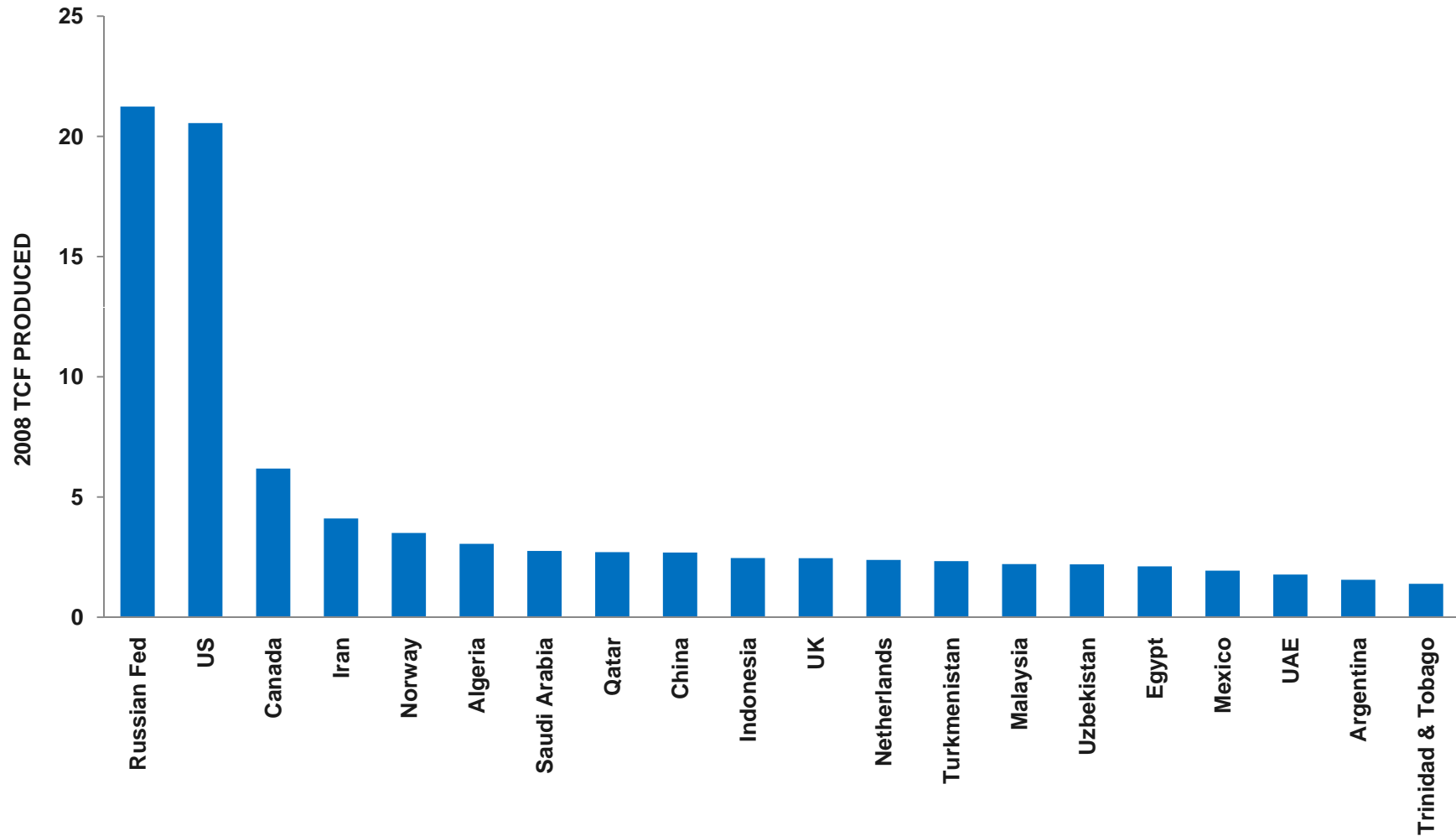
- Serving customers for 160 years
- Approximately 1.9 million customers

Wind Farms

- Four wind farms in-service
- Largest wind farm has 190 mw capacity

- **Supply – Where are the producers investing and developing?**
- **Demand – Where is the market for the gas?**
- **Price – Where can the producer obtain the best cost margins for production and market price for the gas?**

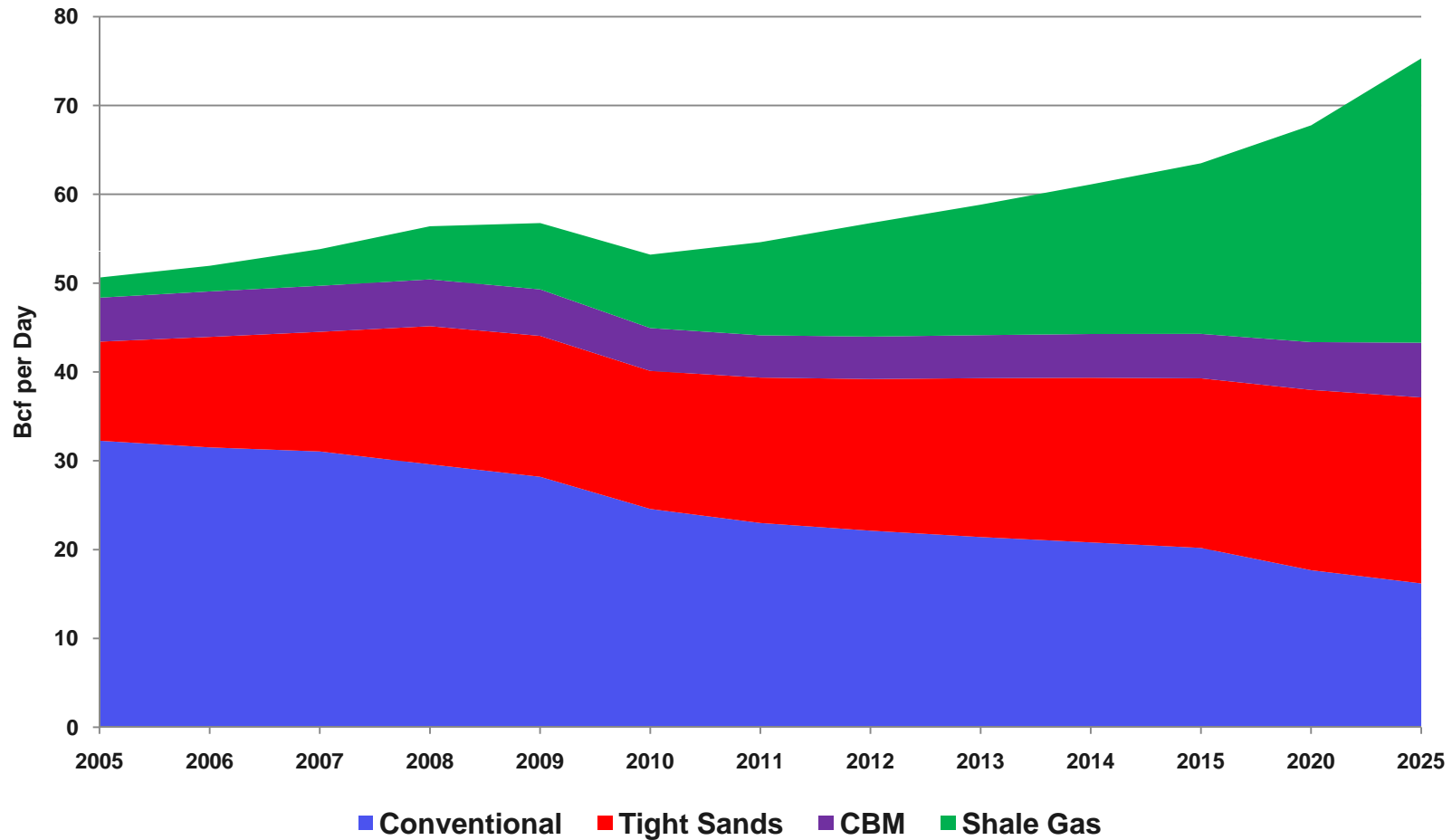
SUPPLY: Top 25 Natural Gas Producing Countries



Supply: U.S. Lower 48 Gas Production by Type



Lower 48 Gas Production Forecast



Source: PIRA, October, 2009

SUPPLY: U. S. Lower 48 Shale Plays

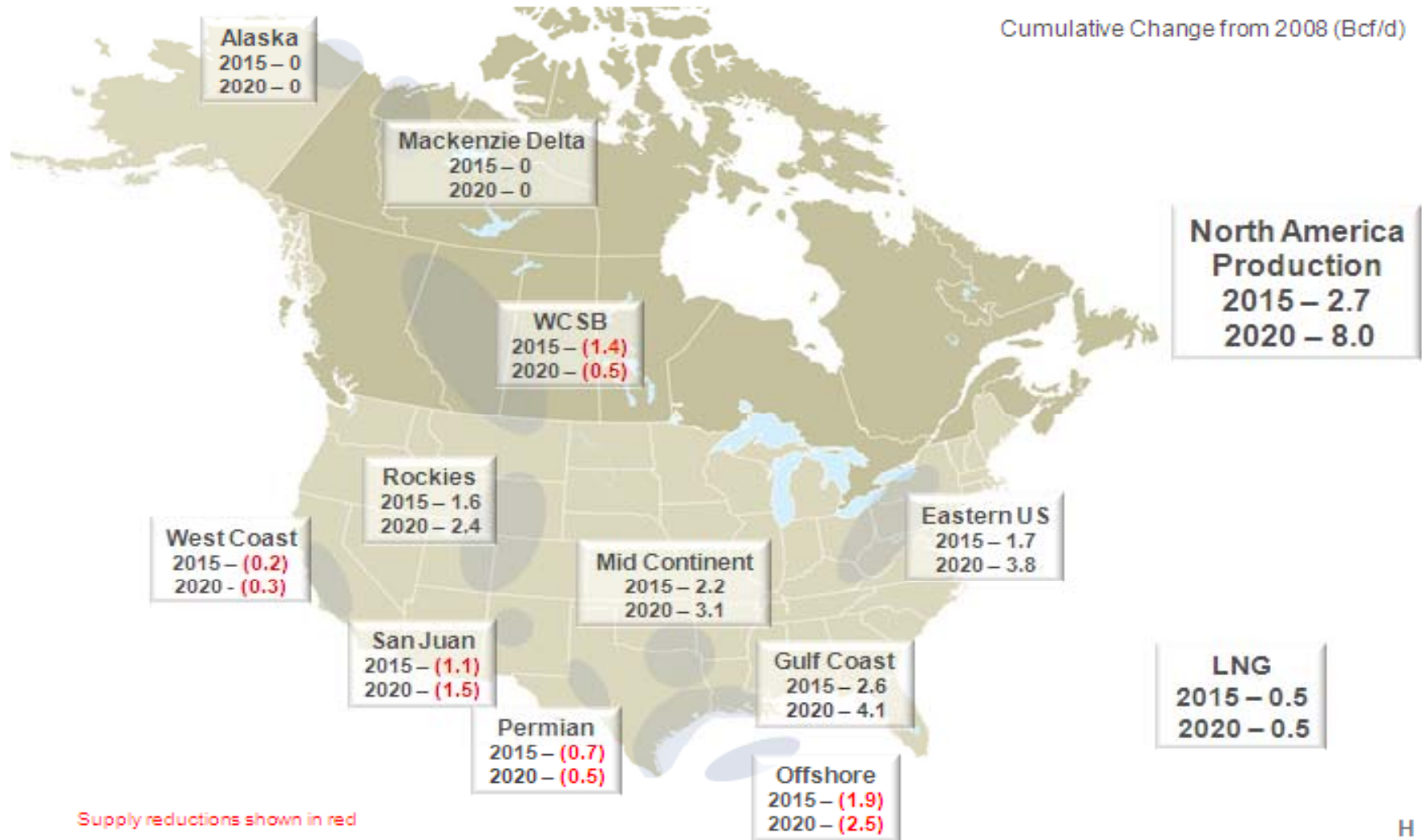


Shale Gas Plays, Lower 48 States



Source: Energy Information Administration based on data from various published studies
Updated: May 28, 2009

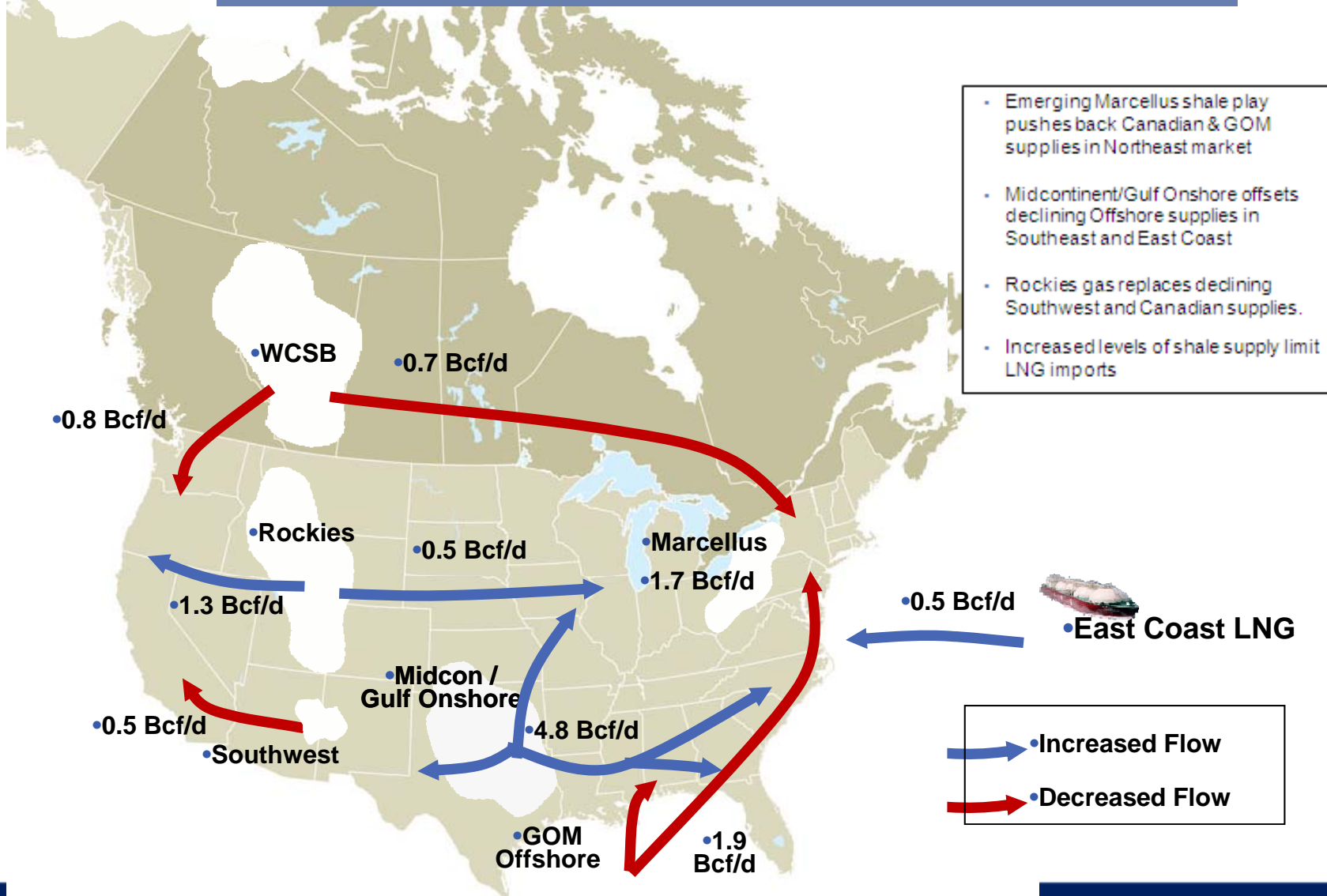
A number of new supply areas are emerging including Mid Continent and Gulf Coast



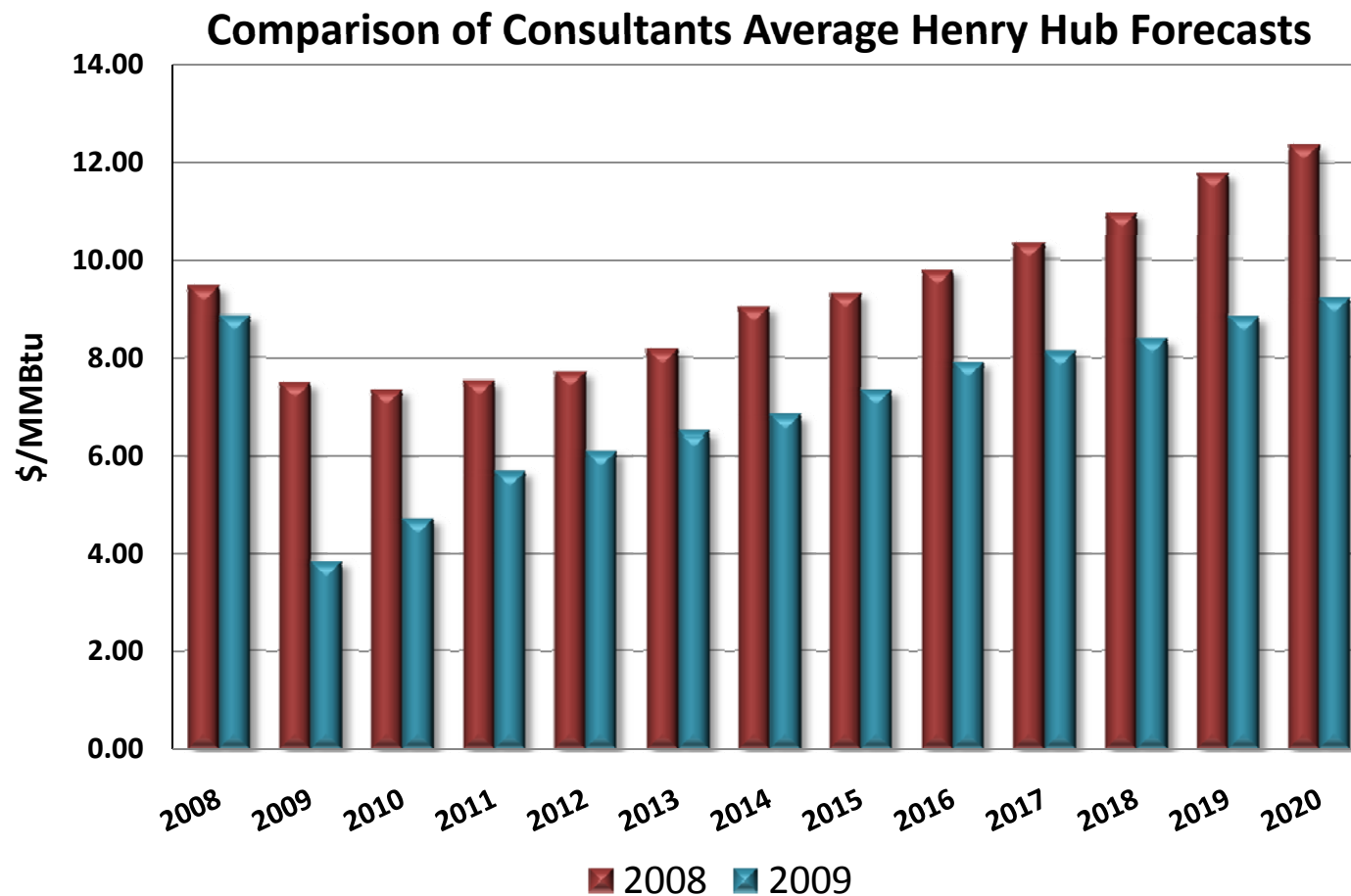
Gas transmission patterns are shifting to accommodate supply shifts.



Major Changes in Gas Flows 2008- 2015



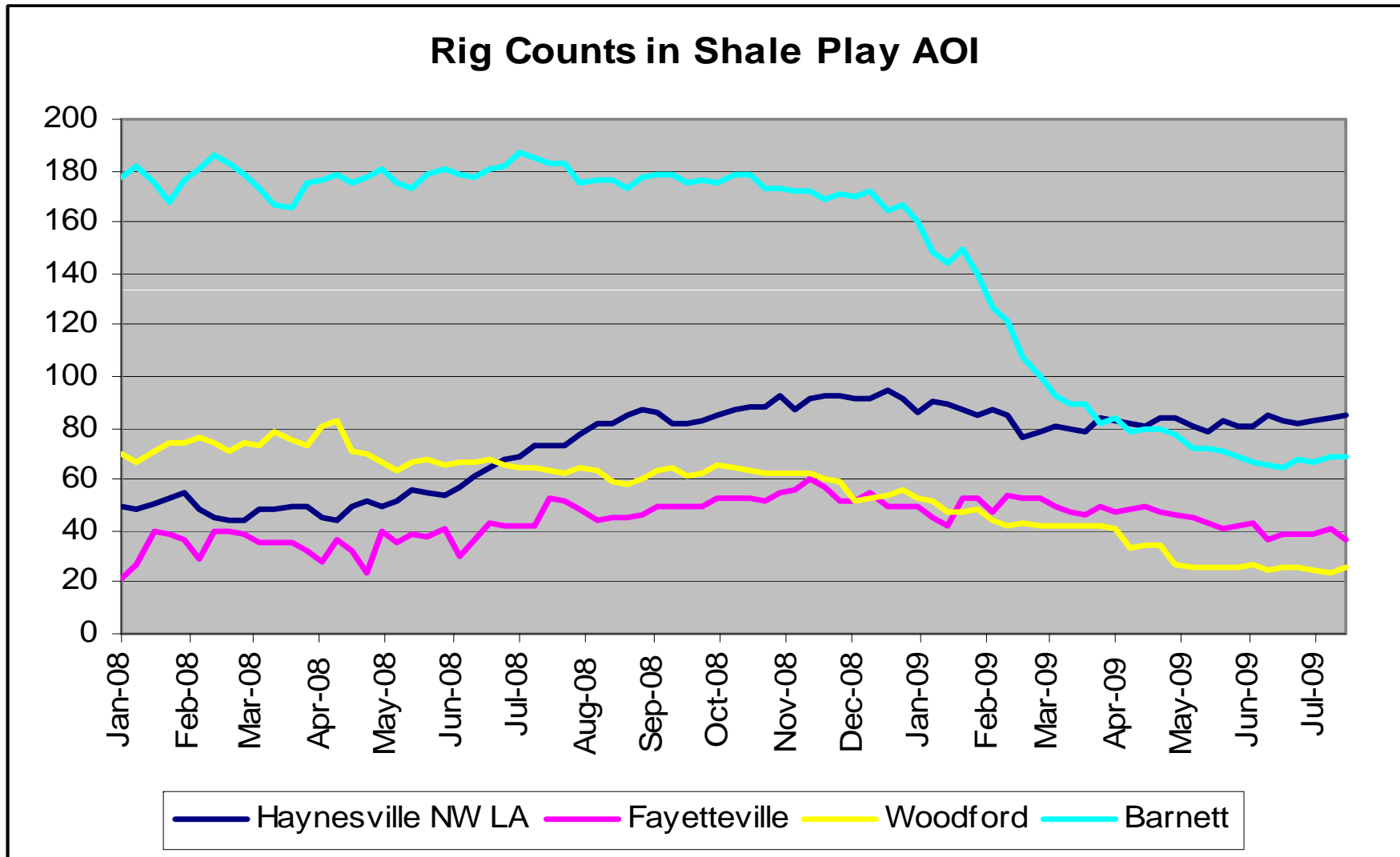
Abundant supply is resulting in lower prices.



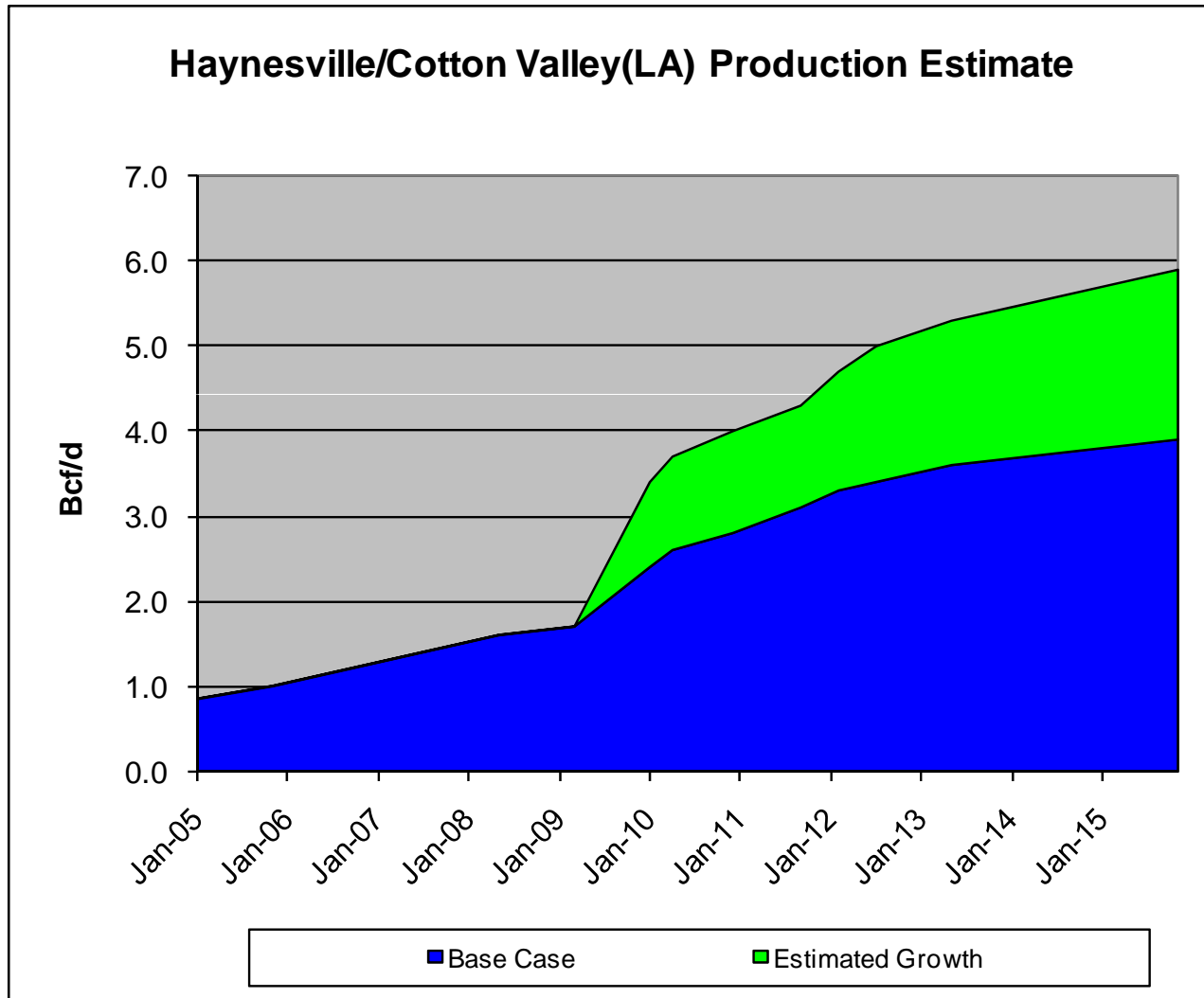
- U.S. is supply long at rate of 1.7 Bcf/d
 - Storage is at record levels.
 - Rig count has fallen by 48% since October 2008 but production fell by only 2% in same period.
- HOWEVER**
- Drilling in Haynesville is up 25%.
 - Drilling in Marcellus is up 59%.

Producers drill where cost margins allow for best return on investment.

Now the most active Shale Play

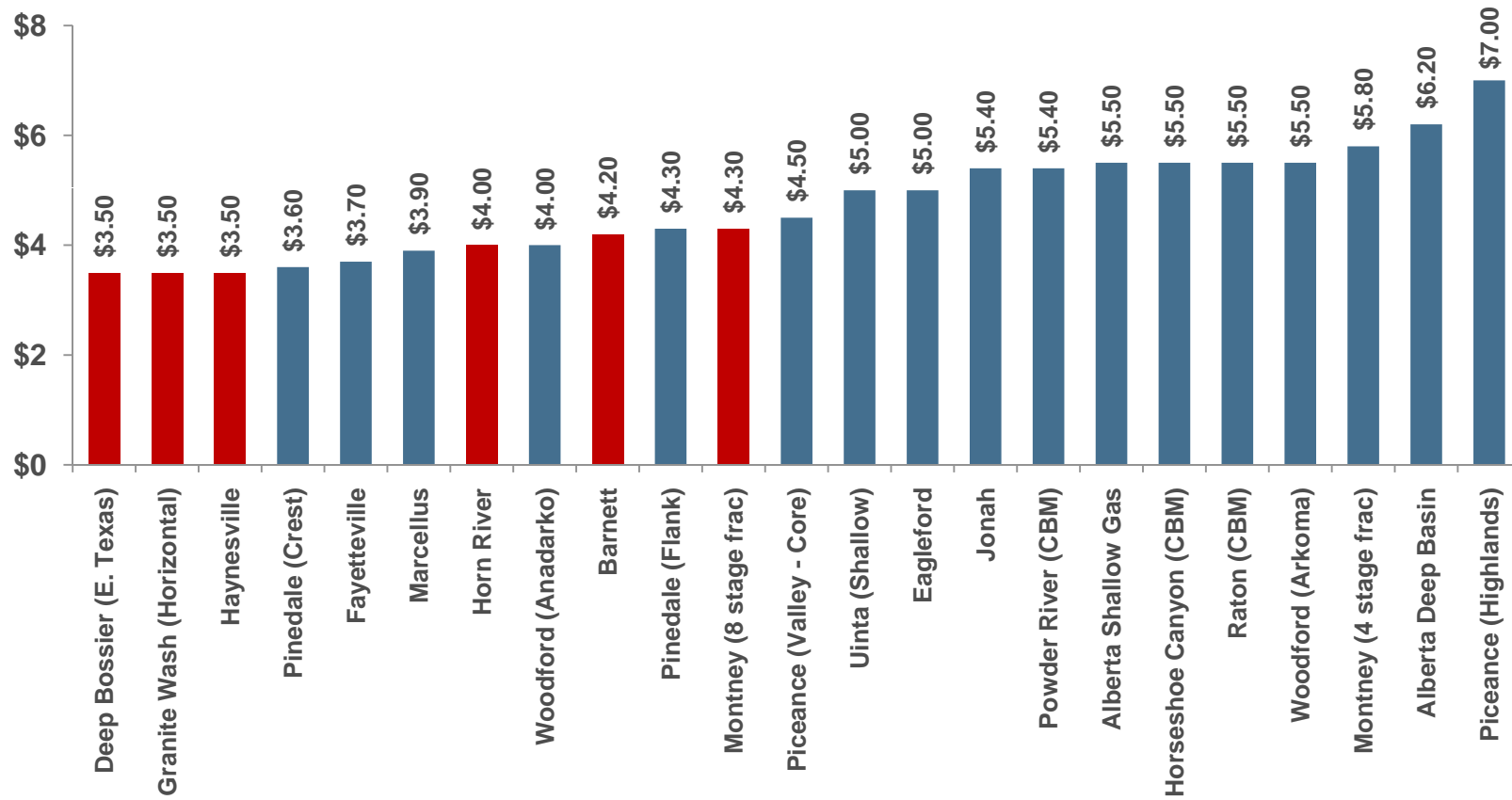


Haynesville has enormous potential



Data source: Bentek Energy, LLC

Low cost supply makes gas an attractive energy choice, creating opportunity for gas demand increases.



•Source: Morgan Stanley

Regional Supply Areas could provide economic stimulus to Gulf Coast Industry



Some hope bubbles up in chemical industry

■ Global conditions are improving, though more slowly in United States

By **BRETT CLANTON**
HOUSTON CHRONICLE

Chemical producers are seeing more signs the global recession is lifting, a prospect that could bring relief in a major Texas industry that has been in free-fall since last year.

But a broader recovery may still be months away, particularly in the U.S., where the economy is rebounding more slowly than in some international markets, say industry leaders and analysts,

"I continue to see a very robust market in Asia. I see

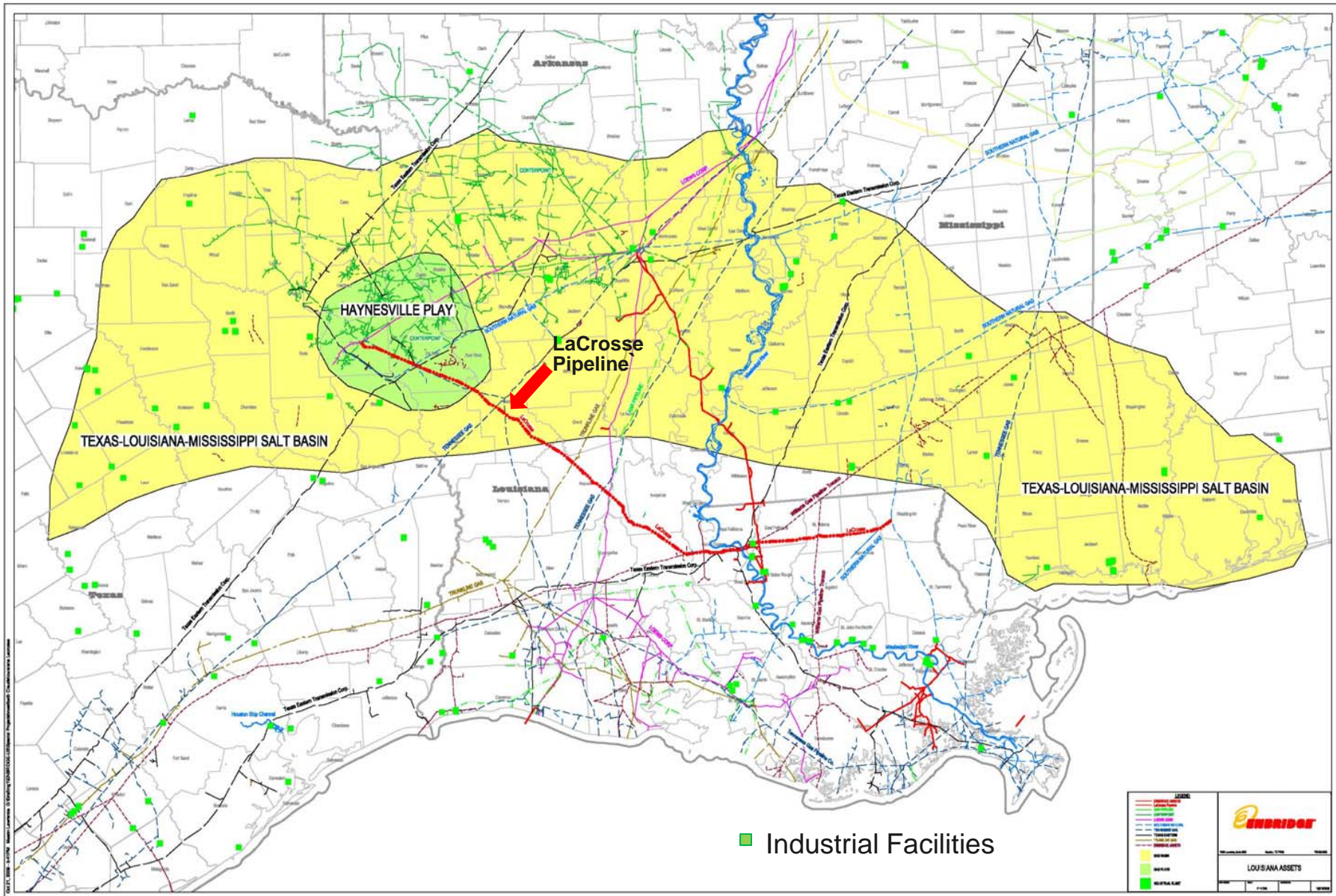
some very slim signs of recovery in Europe. I don't see anything coming in North America," said Peter Huntsman, CEO of specialty chemical maker Huntsman Corp.

Improving economic conditions outside the U.S. are part of the reason why Wall Street predicts major chemical companies this month will report better financial results for the third quarter
*Please see **CHEMICAL**, Page D4*

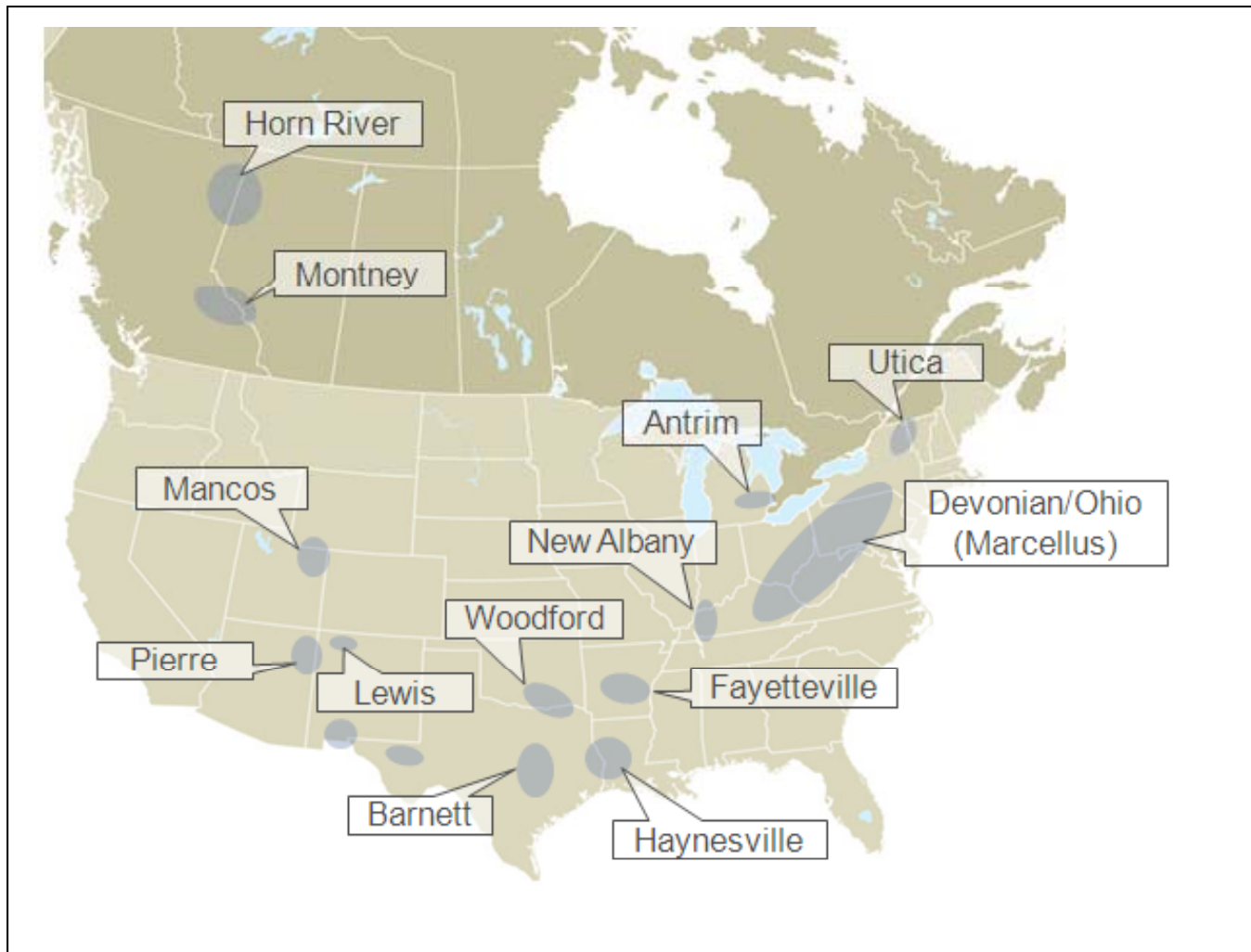
Houston Chronicle, October 18, 2009

- Natural Gas provides low cost feedstock.
- Lower U.S. dollar value makes U.S. export goods attractive.
- Gas Supply such as Haynesville Shale provides a close source and long term supply to industrial consumers.

Industrial Facility Locations near Mississippi River and Gulf Coast



New midstream infrastructure will be required to develop new supply regions



- 28 North American shale basins
- 56 identified shale plays
- The “Big 6”:
 - Horn River
 - Montney
 - Barnett
 - Haynesville
 - Fayetteville
 - Marcellus

New gas transmission assets will have a regional scope such as proposed LaCrosse Pipeline





**Successful Non-binding
Open Season Completed
Greater than 1 BCF/D of
Interest**

**Negotiating Precedent
Agreements**

**Refining Scope and
Resources**

**Anticipated Construction
2011**

**In service late 2011 or
early 2012**

New Supply Areas will need other midstream components based on gas composition.



- **Gathering lines to transport production to transmission lines**
- **Gas treating, processing and dehydration facilities**
- **Compressor stations**



- **Federal Climate Change Legislation**
 - Waxman-Markey bill fails to include natural gas as a viable energy source despite lower carbon emissions
 - Renders midstream processing, dehydrating and compressor facilities vulnerable to potentially high compliance costs
- **Right of Way Issues**
 - Unclear eminent domain authority in Pennsylvania
 - Increased landowner resistance to allow pipeline access
- **Municipal Jurisdiction Expansion Efforts**
 - Noise regulation
 - Pipeline routing approval

- **Creation of “America’s Natural Gas Alliance”**
 - Educates policy makers as to advantages of natural gas as “greener” energy source.
 - Grass roots education and advertising efforts aimed at general public.
- **Creation of U.S. House Natural Gas Caucus. U.S. Senator Landrieu along with Sen. Chambliss (GA) announced Senate Natural Gas Caucus last week.**
- **Improving communication and outreach efforts at the local level with key stakeholders such as elected and appointed officials, community leaders, interested citizens.**



QUESTIONS?

