

Importance of Shale Natural Gas to the United States and Arkansas

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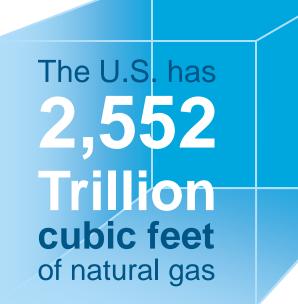
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•The SEC has generally permitted oil and gas companies, in their filings with the SEC, to disclose only proved reserves that a company has demonstrated by actual production or conclusive formation tests to be economically and legally producible under existing economic and operating conditions. We use the terms "estimated ultimate recovery," "EUR," "probable," "possible," and "non-proven" reserves, reserve "potential" or "upside" or other descriptions of volumes of reserves potentially recoverable through additional drilling or recovery techniques that the SEC's guidelines may prohibit us from including in filings with the SEC. These estimates are by their nature more speculative than estimates of proved reserves and accordingly are subject to substantially greater risk of being actually realized by the company.

The Case for Natural Gas

Abundant



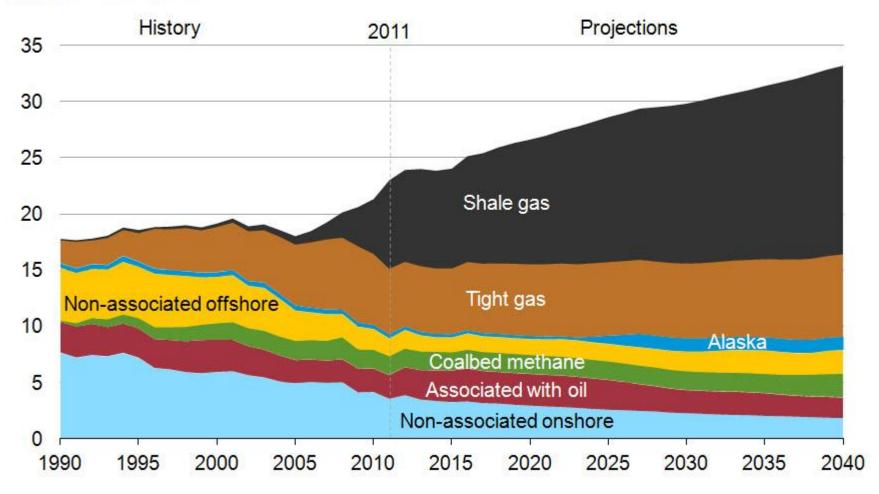
America has as much natural gas as Saudi Arabia has oil.

Enough for more than

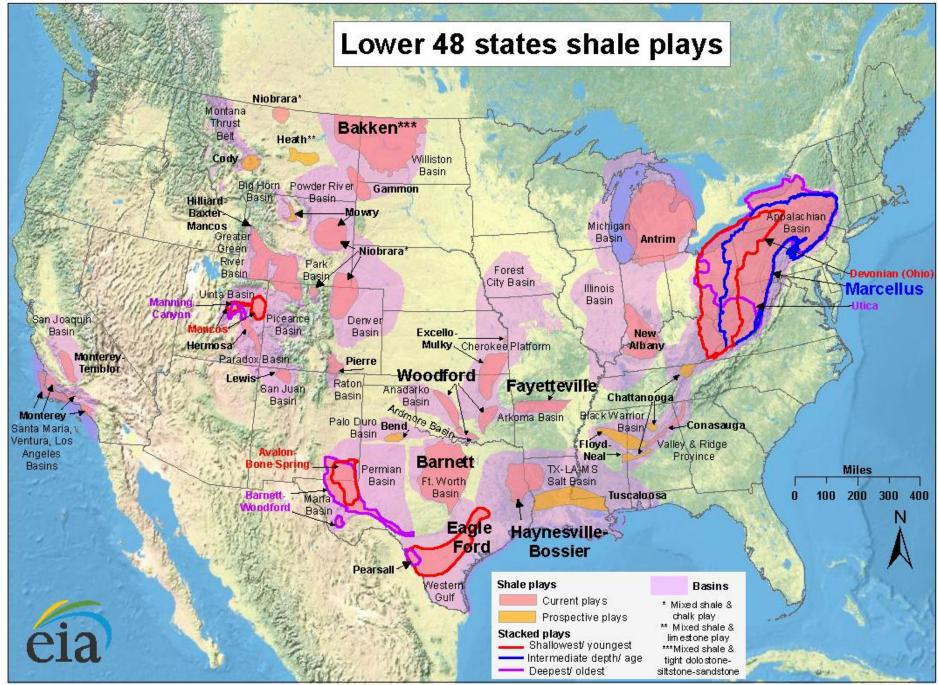


Unconventional Gas will Become the Standard

U.S. dry natural gas production trillion cubic feet



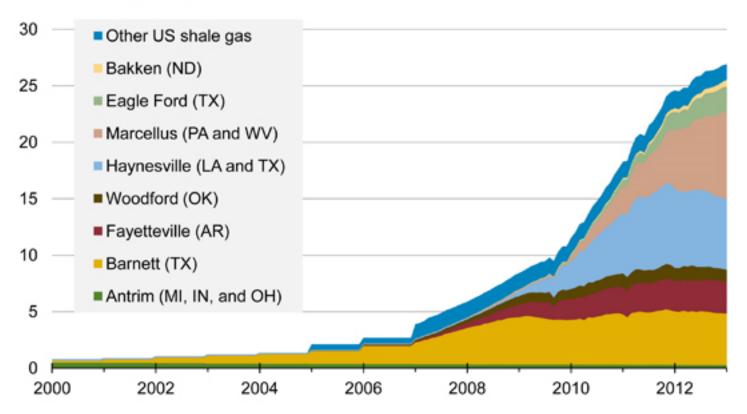
Source: EIA, Annual Energy Outlook 2013 Early Release



Source: Energy Information Administration based on data from various published studies. Updated: May 9, 2011

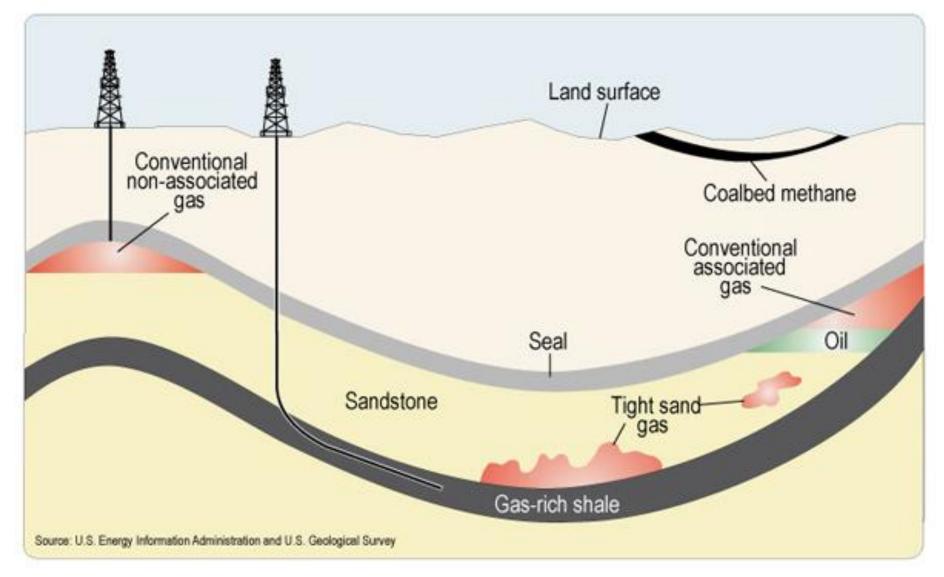
Production of Shale Plays

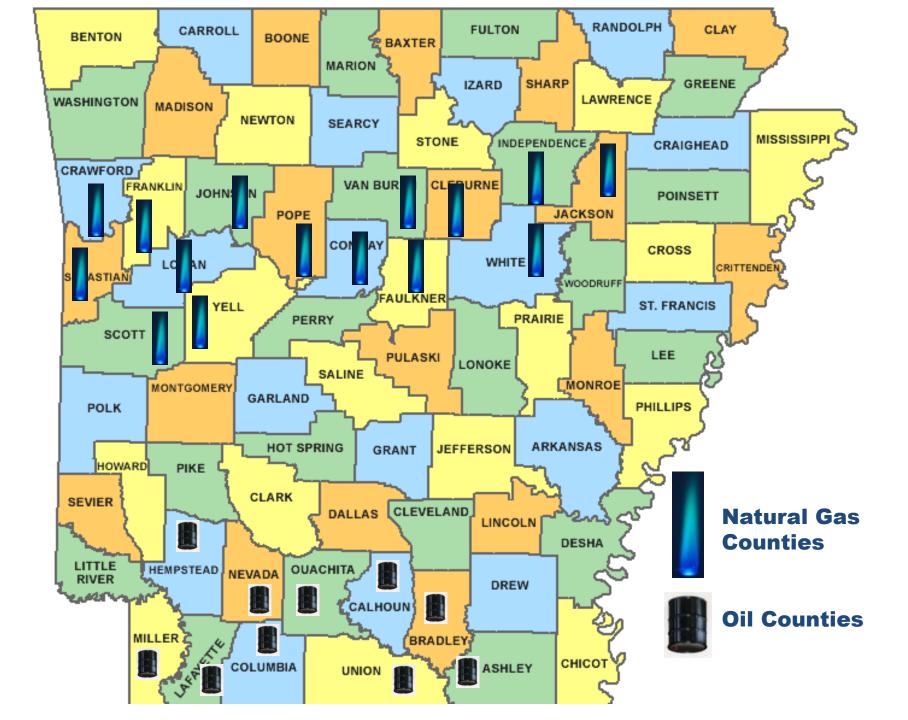
shale gas production (dry) billion cubic feet per day



Sources: LCI Energy Insight gross withdrawal estimates as of January 2013 and converted to dry production estimates with EIA-calculated average gross-to-dry shrinkage factors by state and/or shale play.

Geology of Natural Gas Resources

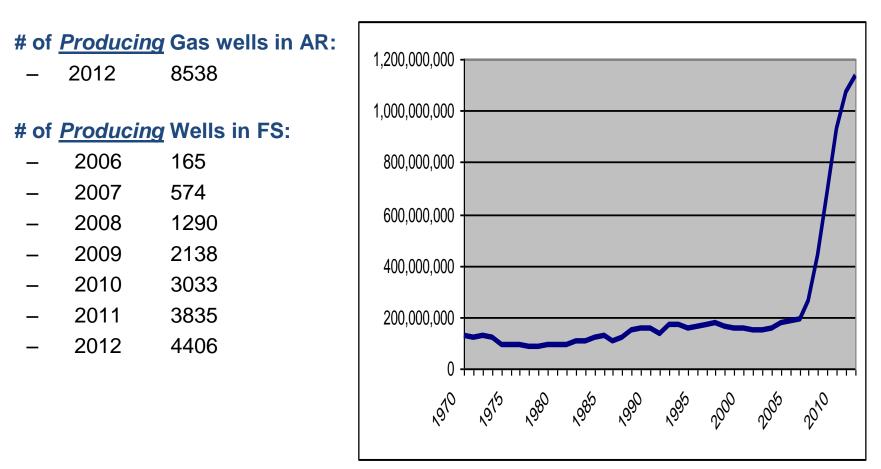




Natural Gas Production Information

Production Information:

- 2006 less 200 Bcf. 2011 over 1 Tcf. Approximately 88% from the Fayetteville Shale, 12% from the Arkoma Basin.
 - AR consume less than 250 bcf per year.



U.S. Economic Impact

\$76.9 Billion

Shale gas industry contributed to US GDP in 2010

600,000 Jobs

Shale gas industry contributed to US economy in 2010



Revisiting the Economic Impact of the Fayetteville Shale

Kathy Deck, Director Center for Business and Economic Research June 7, 2012



Economic Impact in Arkansas

\$18.5 Billion

Total economic activity (2008-2011)

22,499 Total Jobs

Employment impact (2011)



Average salary of employees in the oil and natural gas industry (2010) – **twice the average pay of all industries in the state.**



Economic Impact in Arkansas



Revenue in state and local taxes

Source: State of Arkansas Department of Finance and Administration

More Property Tax Revenue for our Schools

\$109.2
Million



Property tax revenues generated from natural gas industry in the Fayetteville Shale (2008-2011)

Others sharing in the Revenue



Mineral owners:

Over **\$1.5** BILLION paid to Arkansans in bonus & royalty payments from 2008-2012

Total Utility Cost Savings by Class, 12 Mos. Ended December 2011

	Residential	Commercial	Industrial	Total
Thousands of \$	\$68,493	\$59,594	\$166,299	\$294,386
Electric Savings, Thousands of \$	\$82,701	\$53,389	\$74,989	\$211,079
Total Savings, Thousands of \$	\$151,194	\$112,983	\$241,288	\$505,465

The Case for Natural Gas: Air Quality

U.S. energy-related CO₂ emissions in early 2012 lowest since 1992

U.S. carbon dioxide (CO_2) emissions during the first quarter of 2012 were the lowest in two decades for any January-March period. CO_2 emissions during January-March 2012 were low due to a combination of factors including:

 A decline in coal-fired electricity generation and an increase in natural gas-fired electricity generation, due largely to historically low natural gas prices

The Case for Natural Gas





Compressed Natural Gas Compared to gasoline or diesel

CO₂ 20-30% Reduced emissions

CO 70-90%

Reduced emissions

NOx

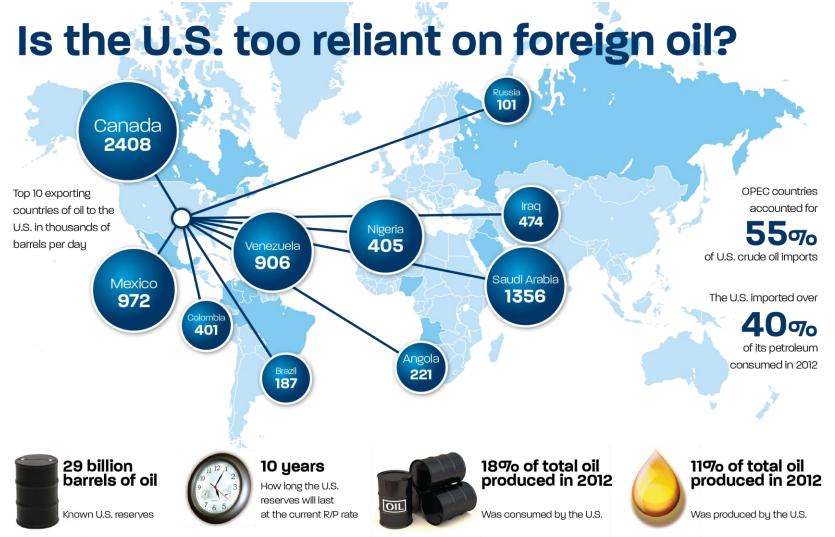
Reduced emissions 75-95%

Particulate Matter Reduced emissions 90%

Reduced emissions 89%

Source: ANGA

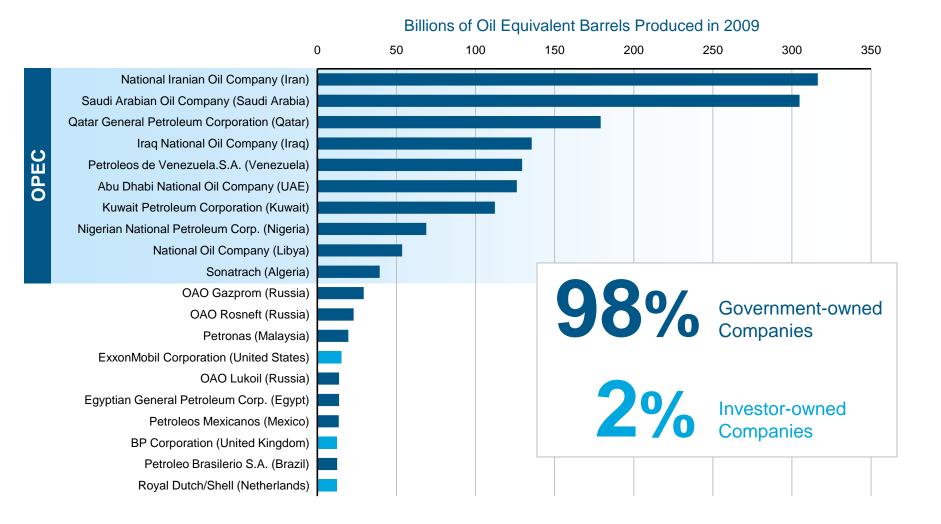
Oil Imports to the U.S.



Sources: Energy Information Administration; BP; O&G Magazine

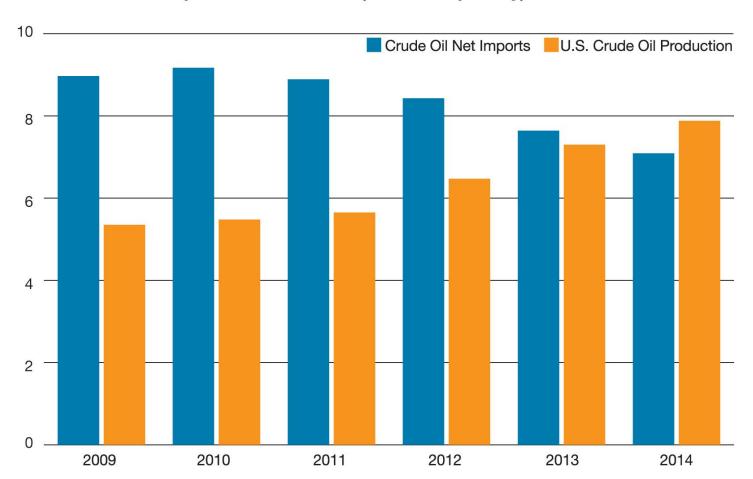
Source: Energy Information Administration; BP; O&G Magazine

Resource Nationalism



Source: PetroStrategies, Inc.

Net Imports and Production

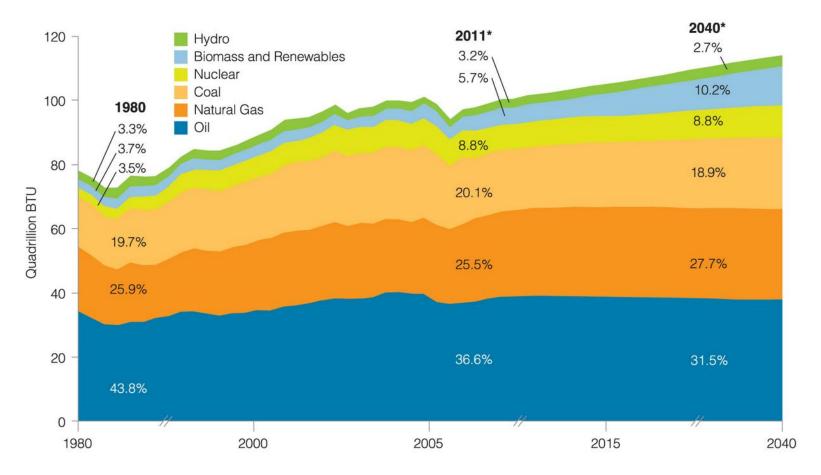


U.S. Crude Oil Net Imports and Production (Million Bbl per Day)

Source: EIA 2013 and 2014 are projected totals.

U.S. Energy Demand

Future U.S. Energy Demand (Quadrillion Btu)



Source: EIA, *Annual Energy Outlook 2013,* Tables A1 and A17 *Excludes non-biogenic municipal waste and net electricity imports

American Energy Independence, American Jobs

Right here in Arkansas



