### Outlook on Energy and What to Expect from President Elect Trump

Presentation to: University Hills Rotary Club

By: John Harpole







# May 13<sup>th</sup>, 1966





## Thank you, Rotary Club!





### What Happened?

- Thanks to hydraulic fracturing, horizontal drilling and private property ownership of minerals, the world should no longer live under the threat of energy insecurity.
- Energy once scarce, is now super-abundant and that reality will continue to change the world as transportation issues are remedied.

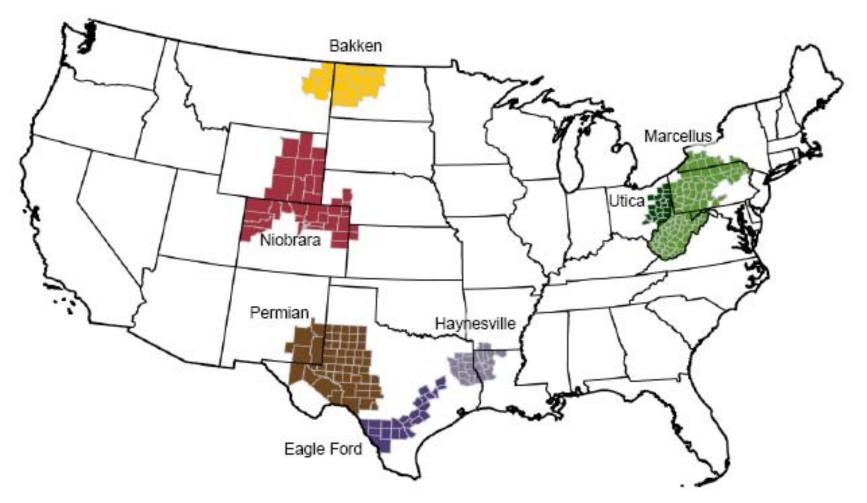


# What Happened? A Global Perspective

- US oil supply rose
- Unexpected large supply growth out of Iraq
- The decline in U.S. drilling cannot unilaterally impact the world price for oil
- It is all about the global economy...China is the key



The seven regions shown below account for 92% of domestic oil production growth and all domestic natural gas production growth during 2011-14.

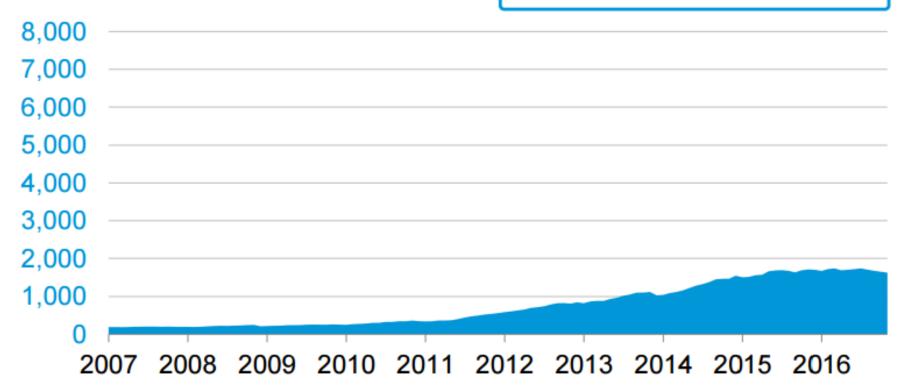




# Bakken Region Natural gas production

million cubic feet/day

Gas -23
million cubic feet/day
month over month

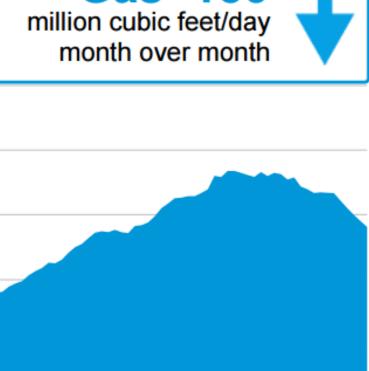








Gas -183 month over month







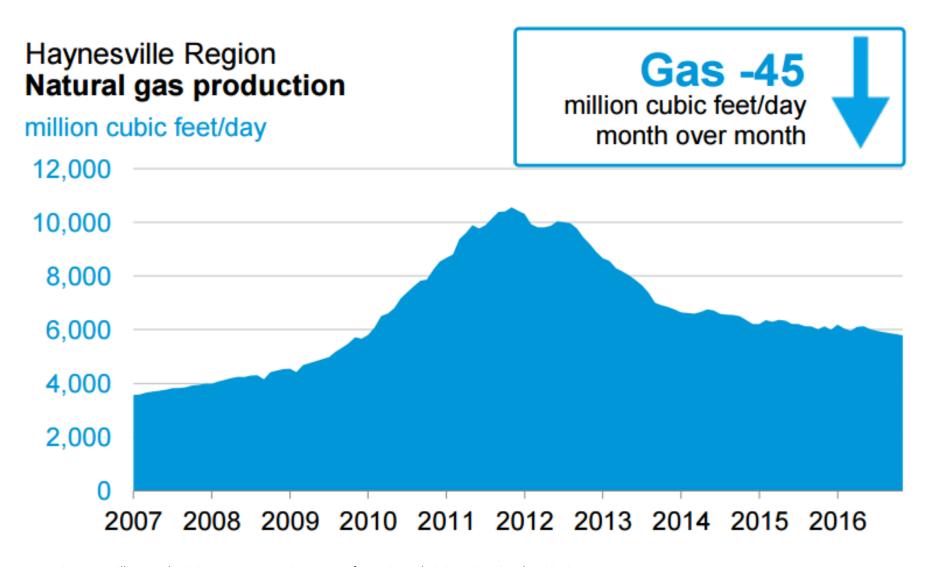


8,000

6,000

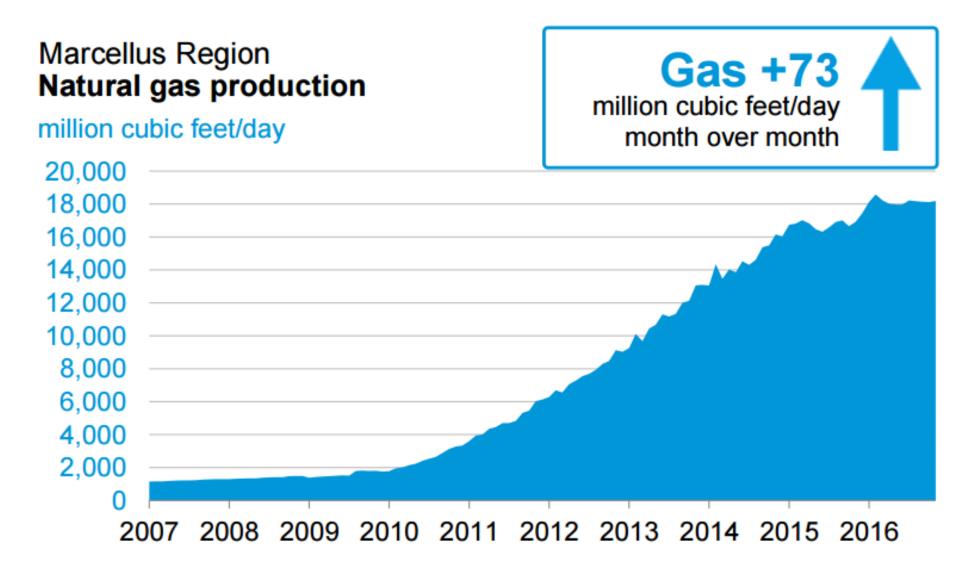
4,000

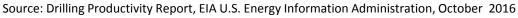
2,000

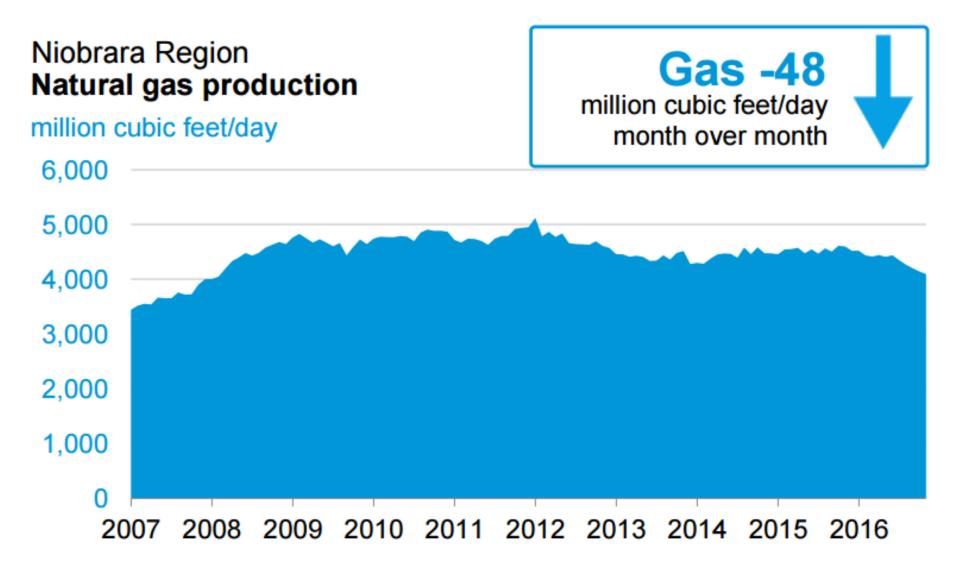














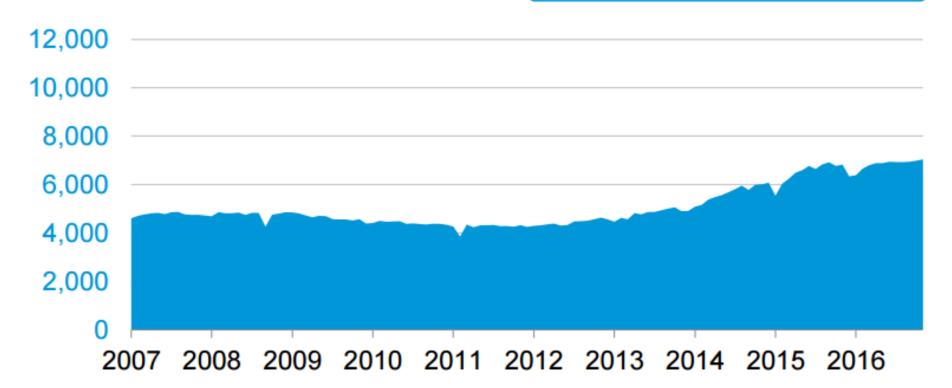


Permian Region

Natural gas production

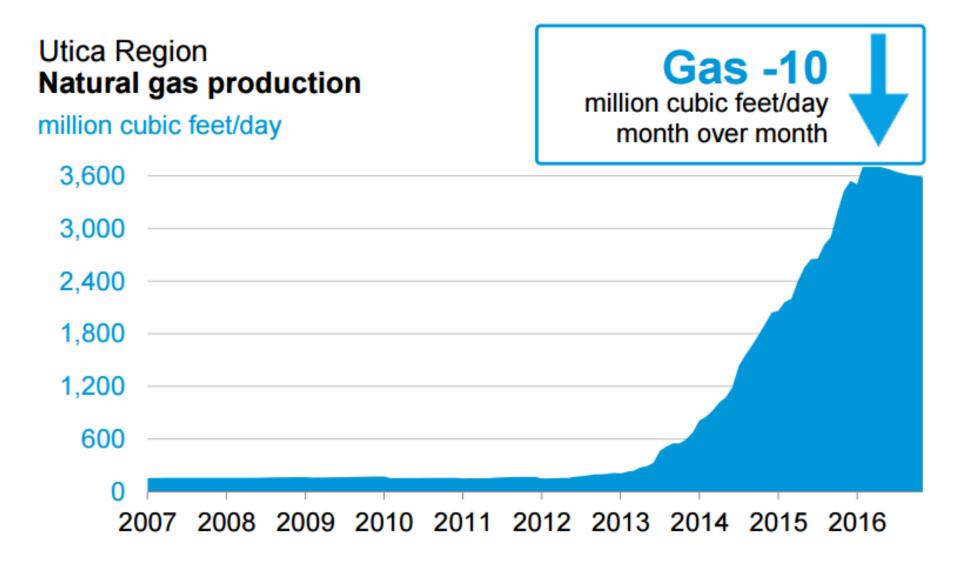
million cubic feet/day

Gas +58
million cubic feet/day
month over month



 $Source: Drilling\ Productivity\ Report,\ EIA\ U.S.\ Energy\ Information\ Administration,\ October\ 2016$ 

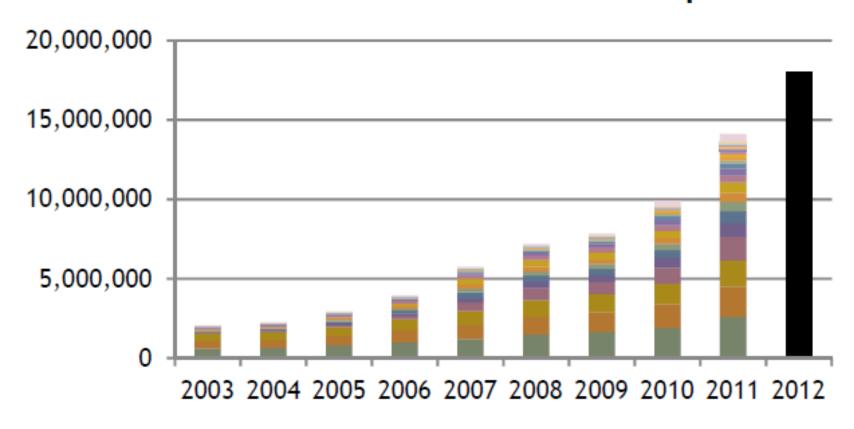






## Fracturing Application Exploded

#### North American Frac Horsepower

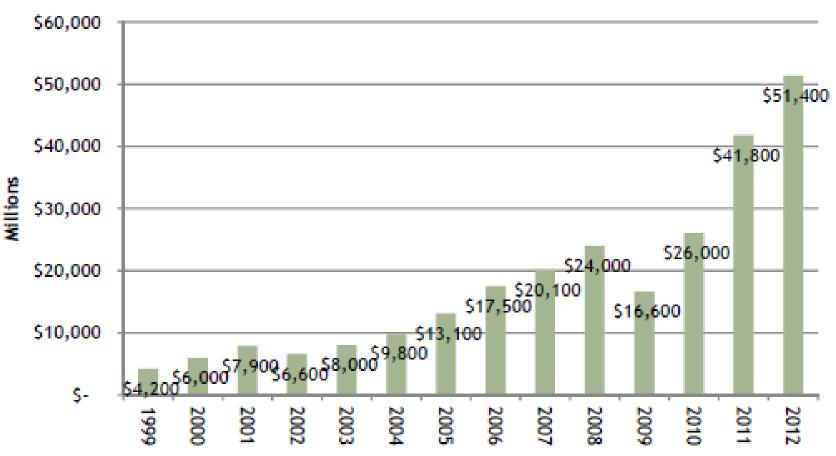


Source: Chris Wright, Liberty Resources Tuesday Lunch Club Presentation, 3/5/13



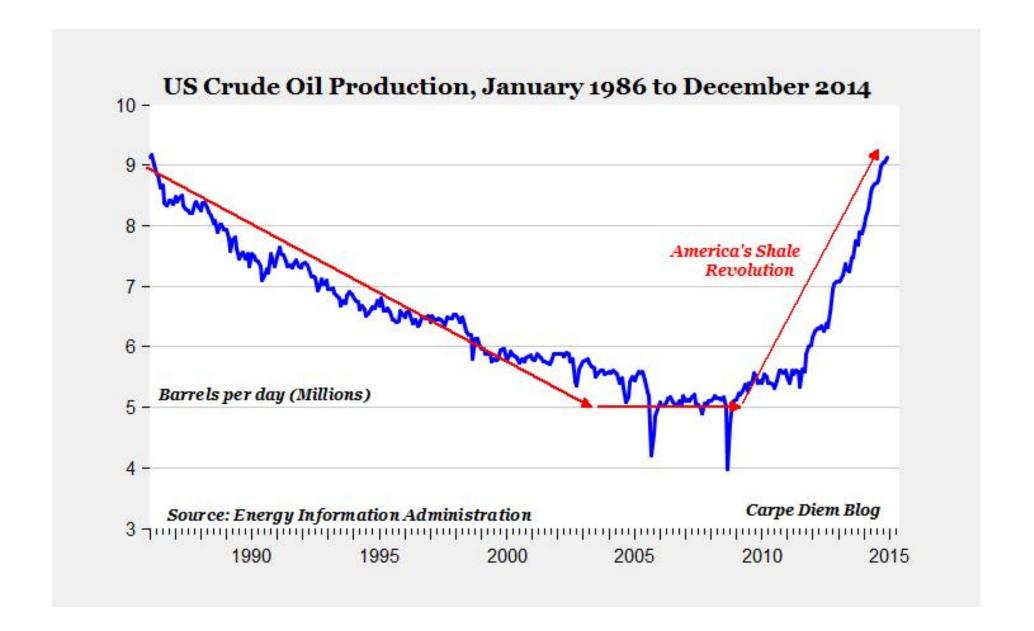
## 10-fold growth in 10 years

#### **Pressure Pumping Services**

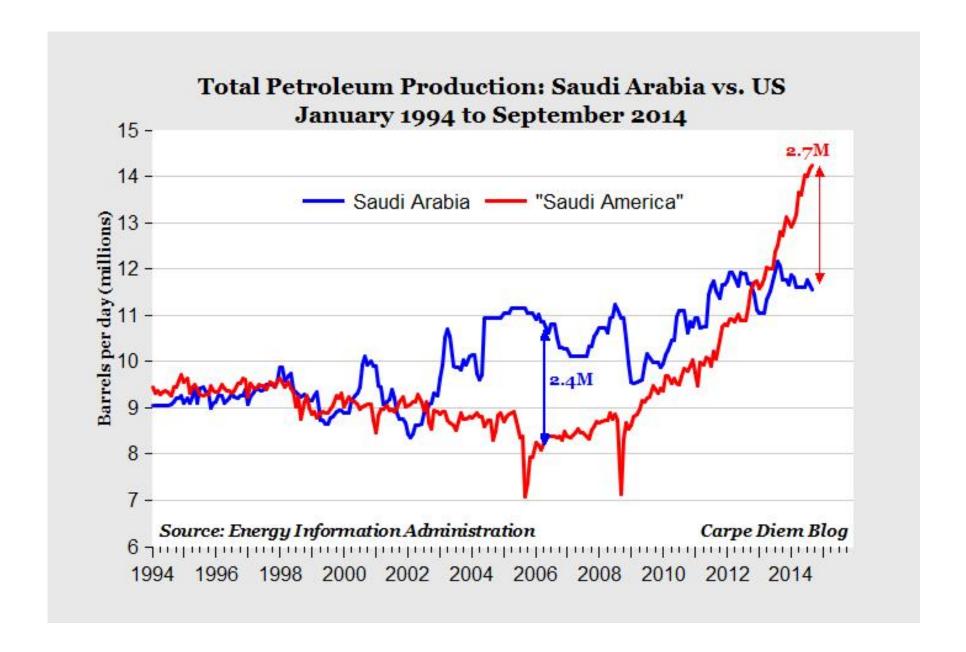


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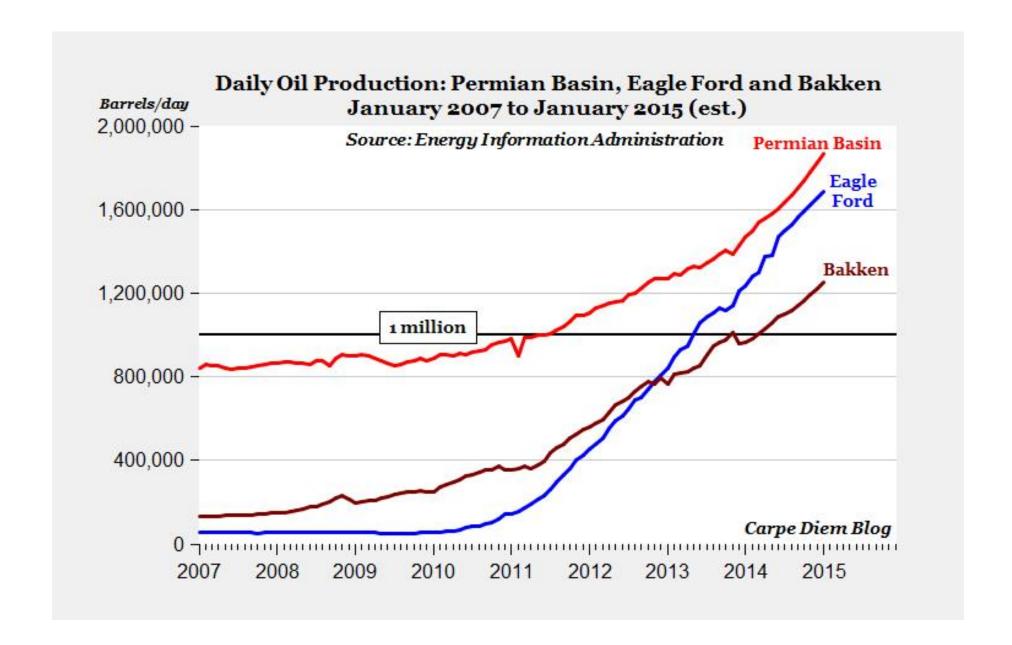






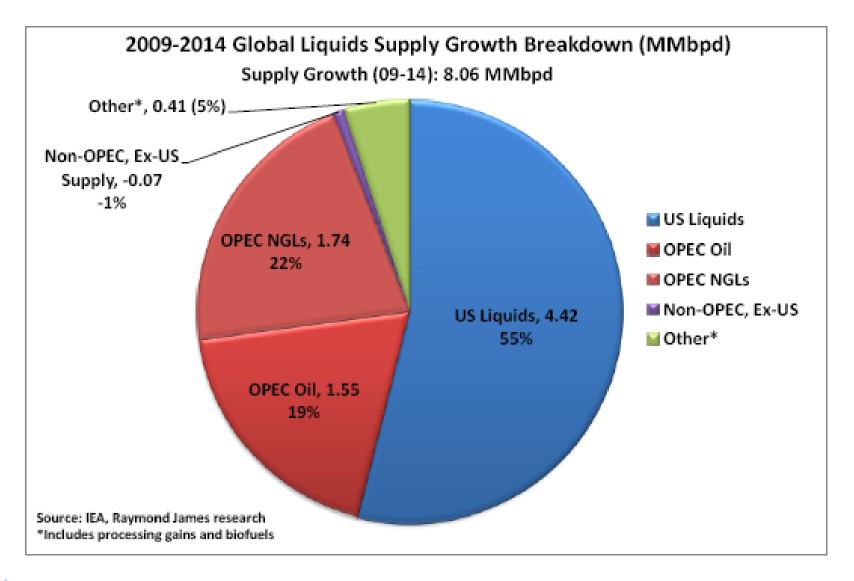








#### The House of Saud's Motivation





### **OPEC's Strategy?**

"In 2016, when OPEC completes this objective of cleaning up the American marginal market, the oil price will start growing again," said Fedun, who's made a fortune of more than \$4 billion in the oil business, according to data compiled by Bloomberg. "The shale boom is on a par with the dot-com boom. The strong players will remain, the weak ones will vanish."

#### **Quoted November 28, 2014**

Leonid Fedun, VP and Board Member at OAO Lukoil (LKOD)



CLZ11 - Crude Oil WTI (NYMEX)





#### Oil price break even point

#### US\$ per barrel

\$37.11 Price on 29 December

Libya				208
Venezuela*			120	
Ecuador			115	
Nigeria		100		
Saudi Arabia		96		
Algeria		93		
Angola	7	7		
Iraq	7	6		
Iran	70			
UAE	68			
Qatar	58			
Kuwait	52			

<sup>\*</sup>Venezuela could be as high as \$200

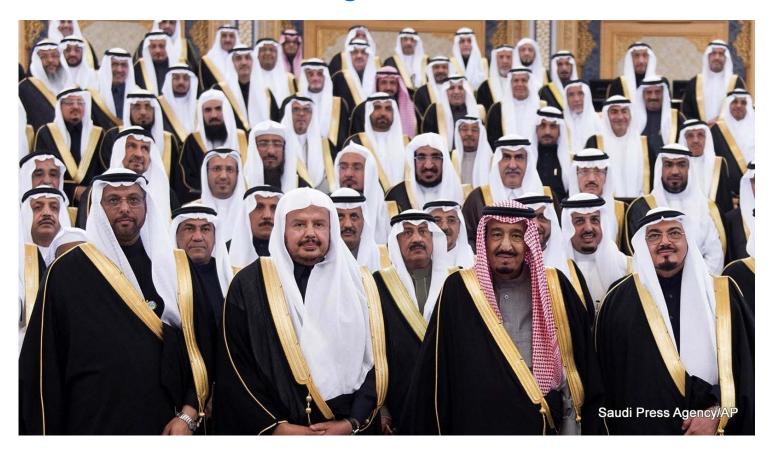
Guardian graphic

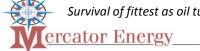
Source: IMF/Economist Intelligence Unit/Bloomberg



#### How Bad is it?

According to data compiled by Bloomberg, "prices have dropped below the level needed by at least 9 OPEC member states to balance their budgets."





### The Venezuela Story

"The picture does not look pretty for Venezuela. The macroeconomic crisis will likely get worse for lack of adjustment in an election year ... There may be more political instability. The legislative elections should produce a majority for the opposition that could intensify the confrontation and might lead to a push to recall the president in a referendum in 2016-17. Street protests are likely to increase as the economy continues to collapse."

Source: The Implications of the Decline in Oil Prices on the Economics, Politics and Oil Industry of Venezuela, Francisco Monaldi, Center on Global Energy Policy, Columbia SIPA, September 2015

### The Nigerian Story

- Nigeria is Africa's top oil producer
- World Bank estimates crude sales fund about 75% of the country's budget
- In the £19.8 billion budget proposal, the government plans to increase spending by about one quarter over last year's budget
  - Paid for by improving tax collection and cutting the cost of government
- Budget includes £1.65 billion for cash transfers to poor Nigerians
  - This program was a campaign promise of the president, Muhammadu Buhari (elected in March) on a platform of cutting corruption and weaning Nigeria's economy off oil revenue dependence
- Some analysts think the proposed budget is unrealistic during times of \$40 oil



# His Energy Policy?



### Cardboard cut-out?





# Here's proof.









### President Elect Trump's First Energy Plan

(according to his campaign website)

- Make America energy independent, create millions of new jobs, and protect clean air and clean water ... conserve natural habitats, reserves and resources ... unleash an energy revolution that will bring vast new wealth to our country
- Declare American energy dominance a strategic economic and foreign policy goal of the United **States**
- Unleash America's \$50 trillion in untapped shale, oil, and natural gas reserves, plus hundreds of years in clean coal reserves



### President Elect Trump's First Energy Plan

(according to his campaign website)

- Become, and stay, totally independent of any need to import energy from the OPEC cartel or any nations hostile to our interests
- Open onshore and offshore leasing on federal lands, eliminate moratorium on coal leasing, and open shale energy deposits



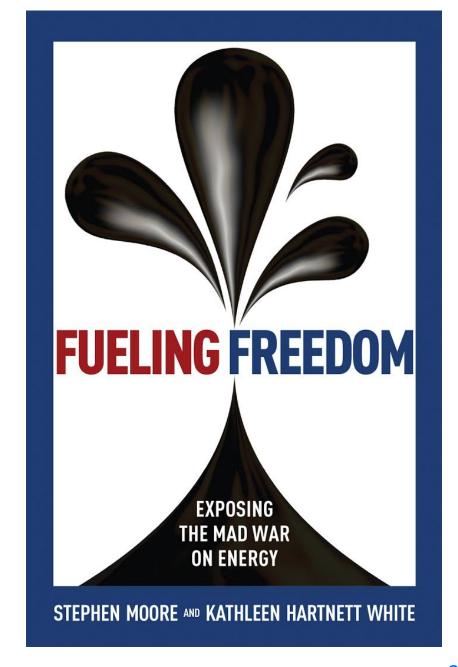
### President Elect Trump's First Energy Plan

(according to his campaign website)

- Encourage the use of natural gas and other American energy resources that will both reduce emissions but also reduce the price of energy and increase our economic output
- Rescind all job-destroying Obama executive actions. Mr. Trump will reduce and eliminate all barriers to responsible energy production, creating at least a half million jobs a year, \$30 billion in higher wages, and cheaper energy.









### Campaign Rhetoric Translated

- 1. He will "reset" relations with Middle Eastern countries (ie independence from OPEC).
- 2. He may consider a significant downsizing of the Department of Energy through budget actions.
- 3. He will eliminate unnecessary regulations with backing from Congress.
- 4. He will dismantle Obama's efforts to curb global warming.



### Campaign Rhetoric Translated (cont'd)

- 5. He will eliminate the Clean Power Plan by not defending the case that the Supreme Court referred to a lower court.
- 6. He will promote exports of oil and natural gas (Keystone XL Pipeline and Dakota Access Pipeline). (But does the market need them?)
- 7. He will open up Federal lands both onshore and offshore (Gulf of Mexico and Atlantic Continental shelf) for additional drilling.
- He will accelerate the permit/license review and approval process for all energy related projects.

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# But What is the Market Significance of These Actions?

- OPEC meeting November 30, 2016
- October 2016 OPEC production: 33.8 mmbpd, the Big 3 (Saudi: 10.6, Iraq: 4.6 and Iran: 3.7) produced 55% of current OPEC output
- Saudi's ability to control Iraq and Iran production volumes is much greater in anticipation of a Trump presidency and a Trump "energy independence" agenda for the U.S.
- Saudi Arabia wants to accelerate the drawdown of excess OECD inventories (334 mmbbls) by cutting OPEC production volumes ASAP
- Expect the announcement of a deal on November 30, 2016
- This will be the first "tell" on the effectiveness of the Trump presidency.

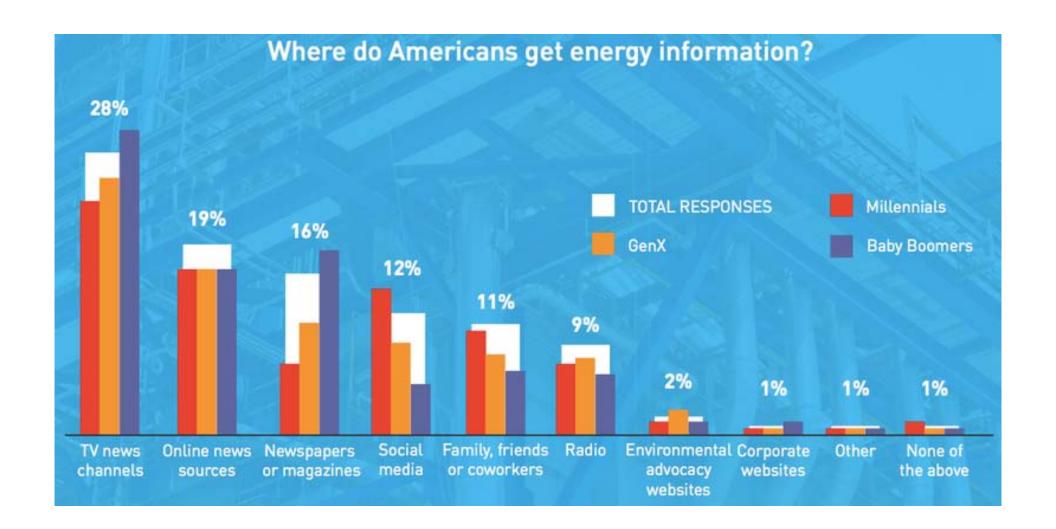


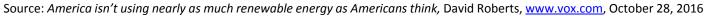
#### NGZ11 - Natural Gas (NYMEX)

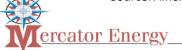




Source: Nasdaq.com, End of day Commodity Futures Price Quotes for Natural Gas (NYMEX)







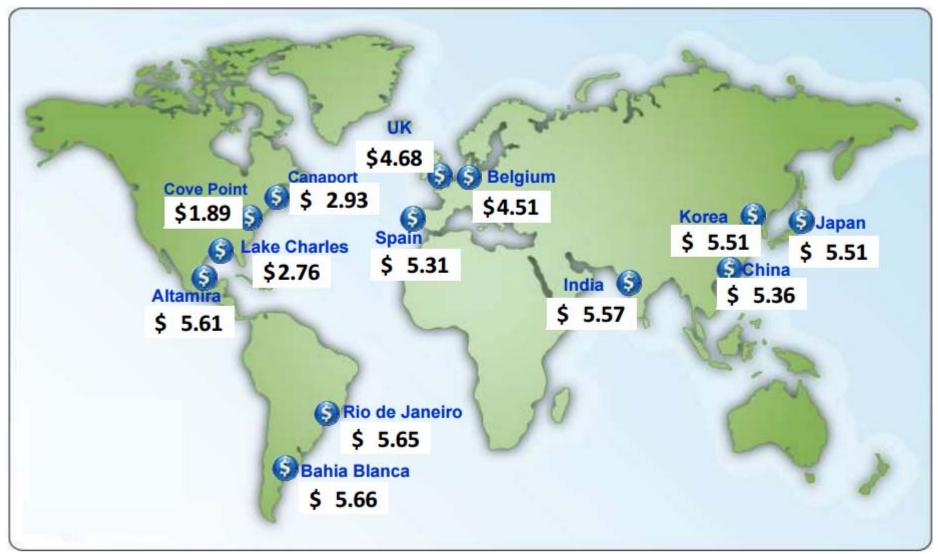
#### **World LNG Estimated October 2014 Landed Prices**





#### World LNG Estimated September 2016 Landed Prices

(\$U.S./MMBtu) - update



Source: Waterborne Energy, Inc. Data in \$US/MMBtu. Landed prices are based on a netback calculation. Updated October 2016 Note: Includes information and Data supplied by IHS Global Inc. and its affiliates ("IHS"); Copyright (publication year) all rights reserved. Prices are the monthly average of the weekly landed prices for the listed month.

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### Conclusions

- Fewer regulations, infrastructure spending and faster economic growth are the key for an increase in oil and gas demand
- A Trump presidency policies may be negative for oil and gas prices because of the potential for greater volumes produced at a lower cost
- The timing of his efforts will be critical and the environmental NGO legal response will be significant

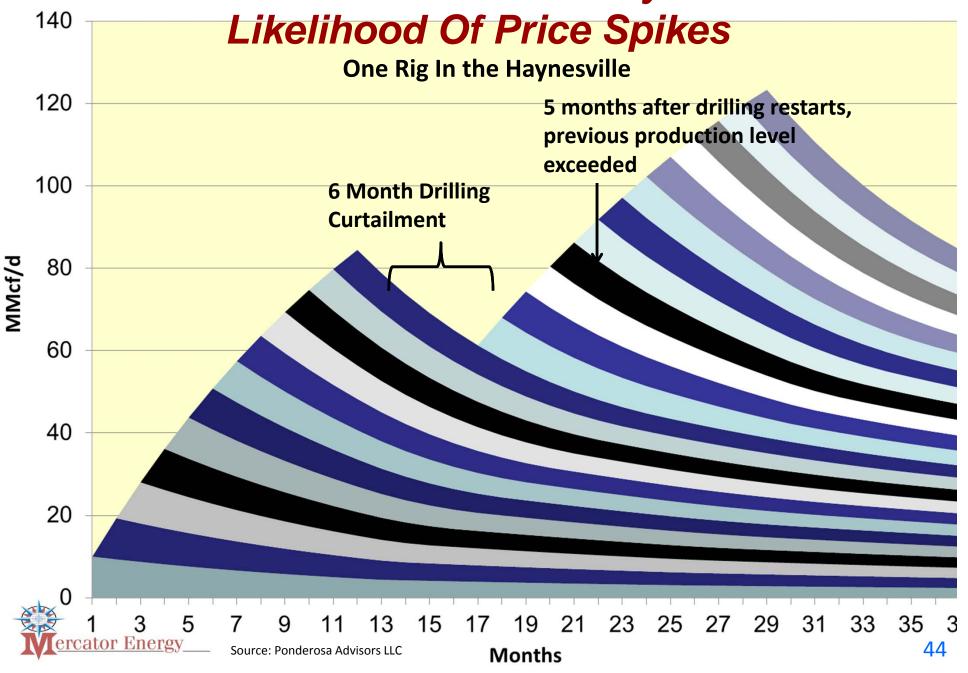


### Conclusions (cont'd)

- Here is an example: possible change to the Equal Access to Justice Act?
- Currently environmental NGOs, thanks to the Equal Access to Justice Act, have all of their legal fees paid when filing a lawsuit against the government
  - As one former Secretary of Interior put it: "this is the most abused legal right in our system today"
- I can see this issue being changed in Congress, especially under a proposed trillion dollar infrastructure bill



### The "Ferrari" Affect Substantially Reduces The



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