



# The Benefits of U.S. Crude Exports

IPAA Annual Meeting Ryan Lance, Chief Executive Officer November 13, 2014



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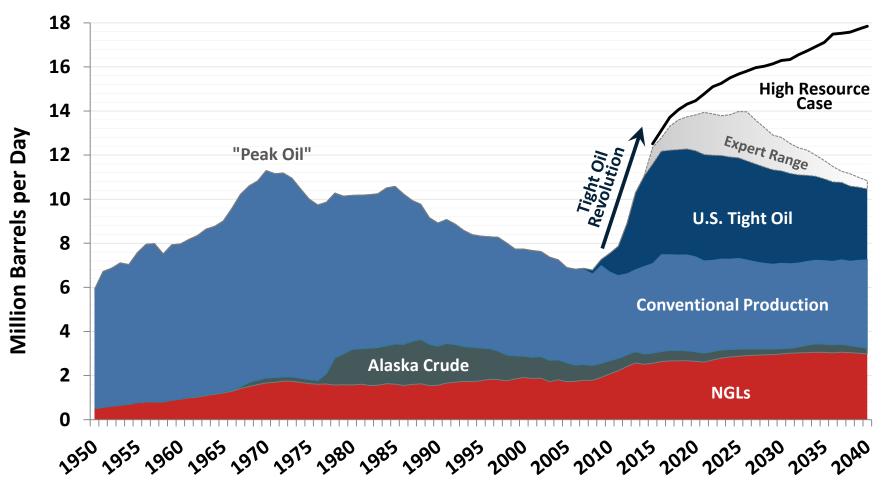
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# Substantial Growth in Total U.S. Oil Production Projected

U.S. Crude, Condensate and Natural Gas Liquids Production
U.S. Department of Energy Forecast

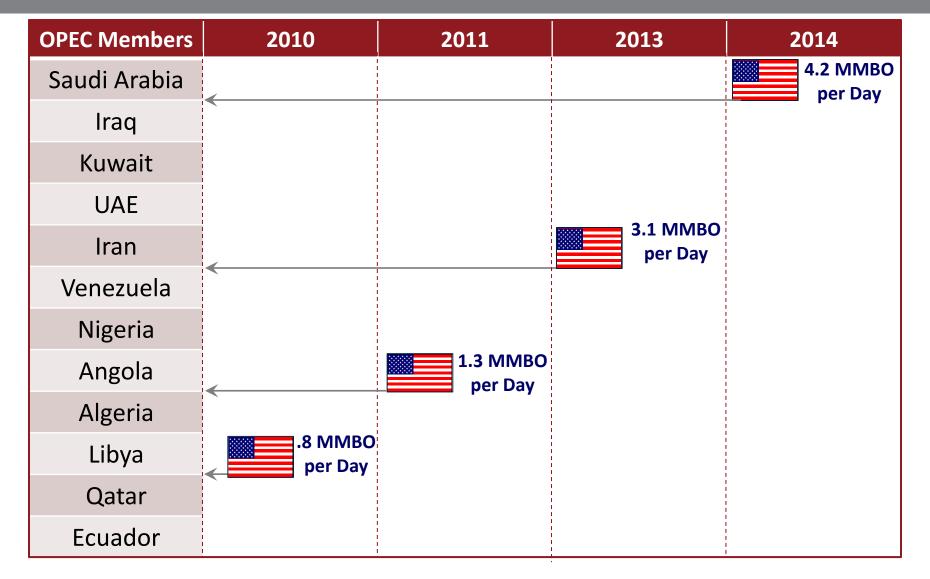


Liquids production has returned to levels not seen since 1972





# U.S. Tight Oil: The Biggest Driver Behind the Oil Renaissance

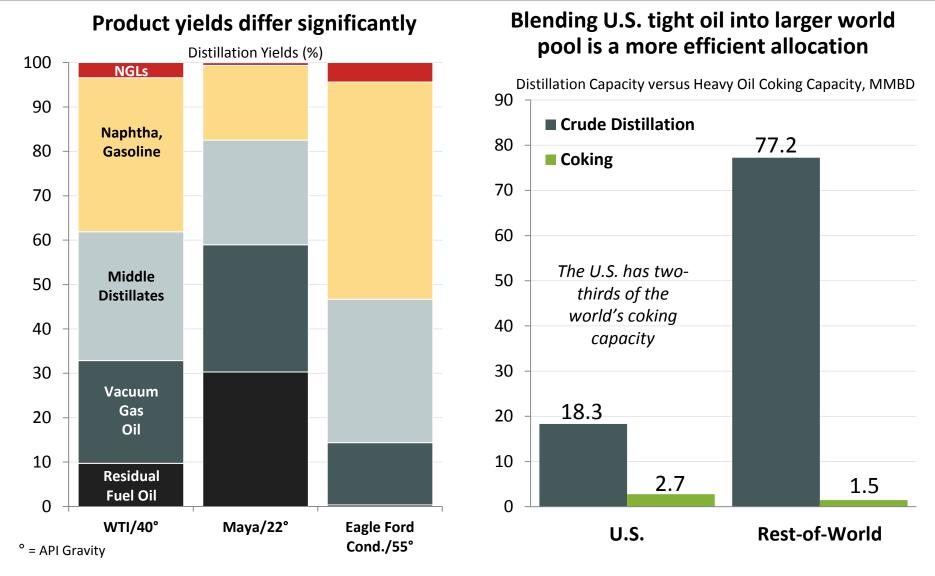


#### U.S. tight oil production alone is larger than production in most OPEC nations

OPEC Production ranked from highest (Saudi Arabia) to lowest per 2013 IEA reported production volumes. OPEC Neutral Zone production split between Saudi Arabia and Kuwait. Sources: IEA for OPEC production; EIA Annual Energy Outlook and Rystad Energy for U.S. Tight Oil. NOTE: Tight oil production includes liquids from tight natural gas plays.



# Tight Oil Quality vs. U.S. Refining Configuration: The "Mismatch"



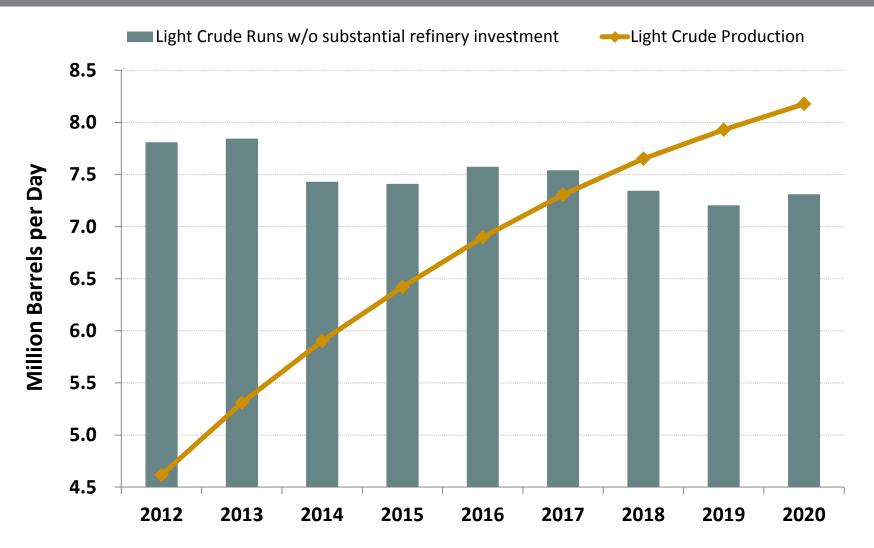
**Exporting U.S. LTO enables a more optimal global allocation of crude oils among refiners** 



Source: Bloomberg



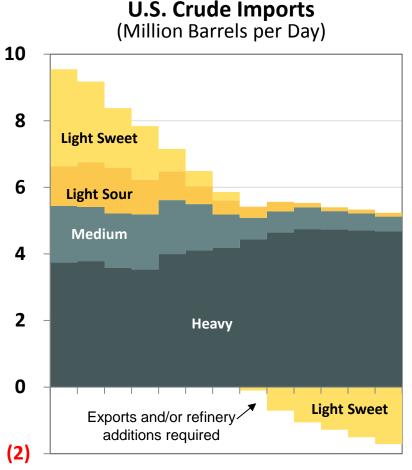
# U.S. Light Crude Oil Production vs. Light Refinery Runs



Light crude production will eventually exceed refiner ability to process it without substantial refining investments or crude exports



# **Changing Pattern of U.S. Crude Imports**



2010 2012 2014 2016 2018 2020 2022

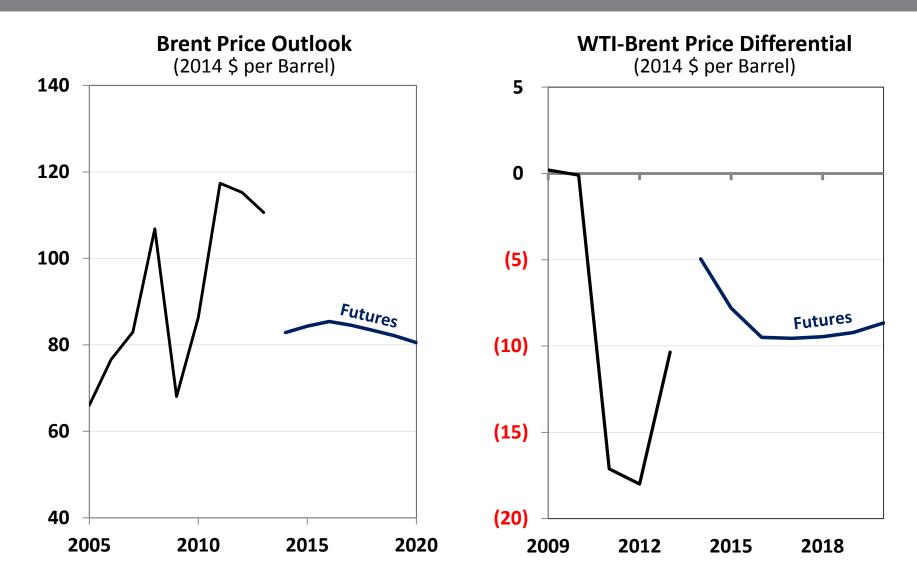
- Declining light, sweet crude imports, with year-round exports needed by 2017
  - Condensates and super-light crudes are already in surplus
  - Seasonal exports needed before then during U.S. refinery turnarounds / outages
- Eventual reductions in light, sour and medium crude imports
- U.S. likely to maintain heavy crude imports that better match domestic refinery configuration

Light, sweet crudes are already in surplus seasonally





### **Crude Oil Futures Price Outlook**



Discounted domestic prices threaten investment in U.S. crude production

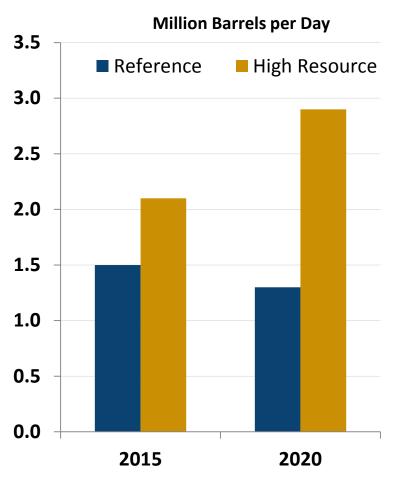




# Ability to Export Crude Would Increase U.S. Oil Production

- Lifting the ban on crude exports would increase U.S. production by 1.5 to 3.0 MMBD by 2020
  - 10-20% increase
- Removing domestic crude price discounts caused by the ban would increase investment in new production
  - More wells and plays would become economic
  - Increased cash flow to invest

# Incremental U.S. Crude Production from Lifting Export Ban in 2015



Increased production would have significant economic benefits to the U.S.





# Benefits of U.S. Crude Oil Exports

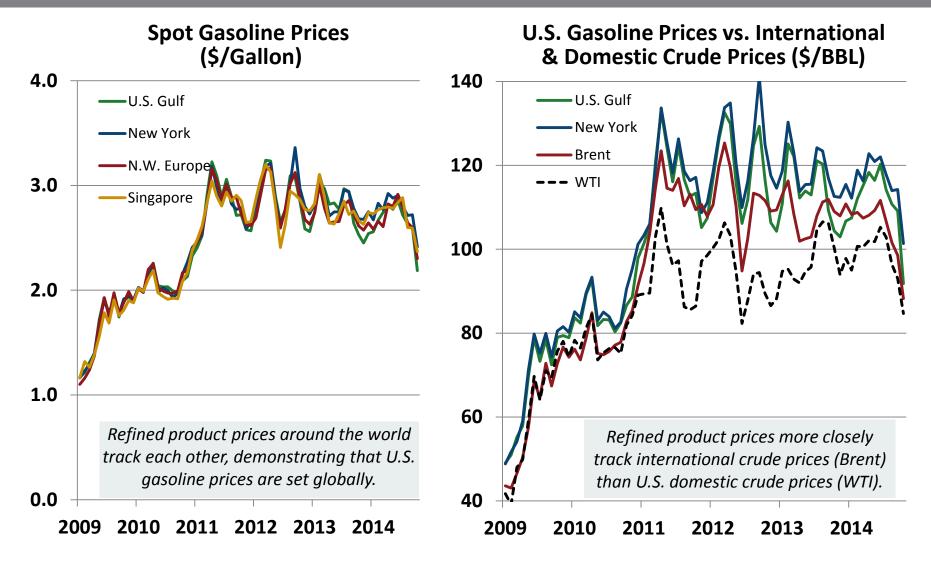
- Would lower consumer fuel costs at the pump by \$18 billion annually
- U.S. economy could gain \$135
   billion and about one million jobs
   at its peak
- Reduce nation's oil import bill by \$67 billion annually
- Increase government revenues by \$1.3 trillion between 2016-2030
- Strengthen U.S. geopolitical position



More jobs & economic development would result from continued growth in U.S. oil production



## Gasoline Prices Are Set Globally by International Crude Prices



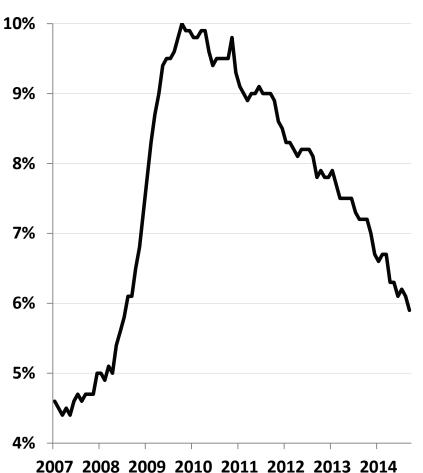
U.S. crude exports should lower U.S. gasoline prices



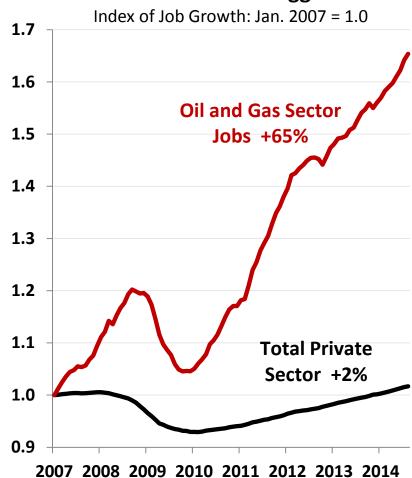


### U.S. Unemployment Rate vs. Oil and Natural Gas Employment





#### Oil and Gas Sector Expanded While Other Sectors Lagged



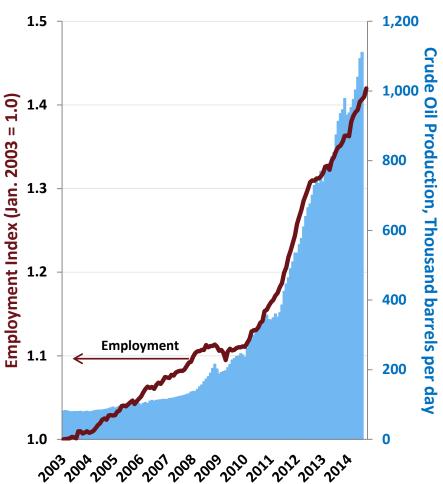
Energy production prevented U.S. downturn from being worse, and spurred recovery



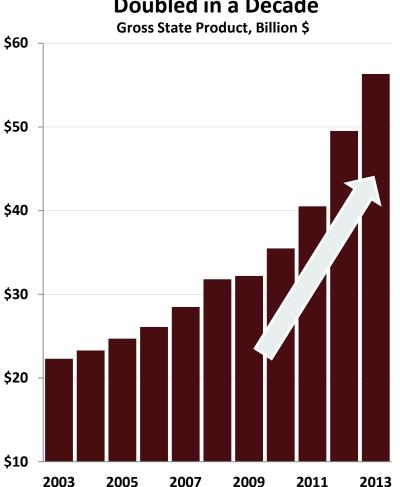


# North Dakota Employment and Economic Growth

# State of North Dakota Employment Up Over 40% as Bakken Developed



# The State Economy More than Doubled in a Decade



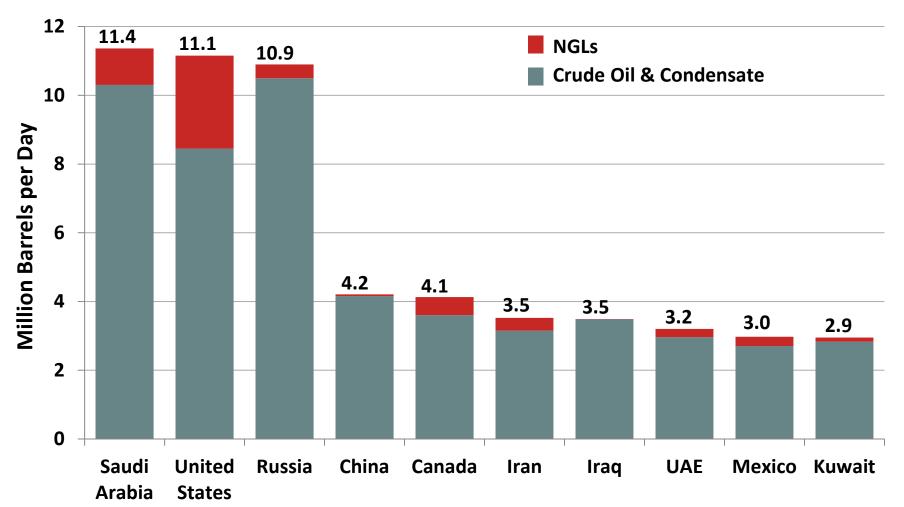
State employment and economic growth tied to Bakken oil production

Source: U.S. Bureau of Economic Analysis



# Growth in Production Restored U.S. Role as Oil Powerhouse

#### Crude, Condensate and NGLs Production for Top 10 Countries, 2014



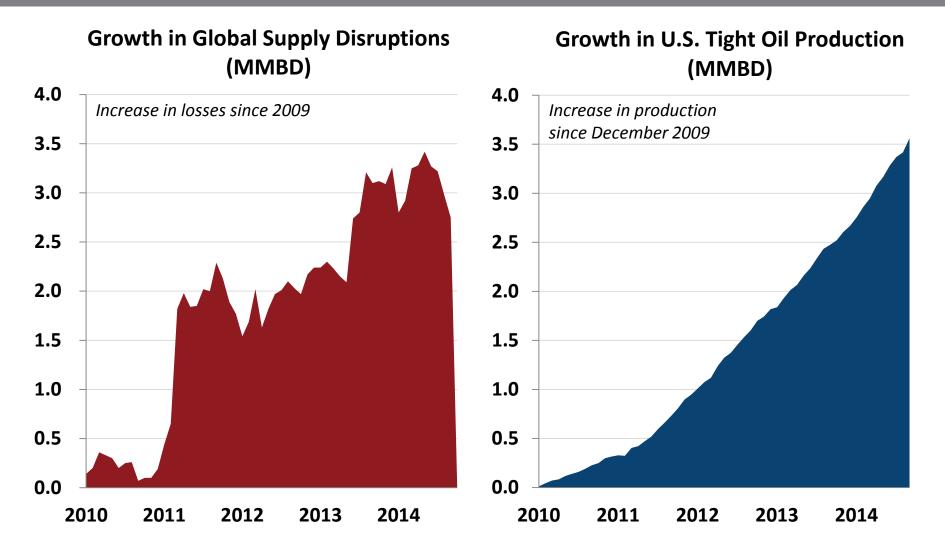
U.S. will likely surpass Saudi Arabia over the next year

OPEC Neutral Zone production split between Saudi Arabia and Kuwait Source: Rystad Energy, November 2014





# Global Crude Supply Disruptions vs. U.S. Tight Oil Growth

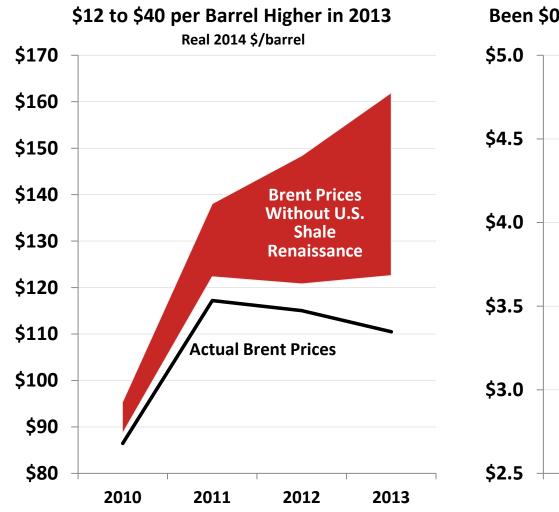


U.S. tight oil production growth has offset most of the global supply disruptions



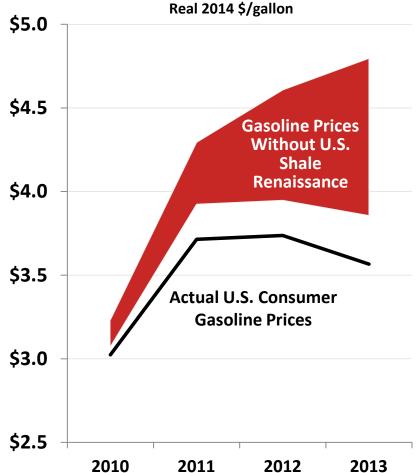


# U.S. Oil Production Prevented Higher Prices in Recent Years



**Brent Crude Oil Prices Would Have Been** 

U.S. Consumer Gasoline Prices Would Have Been \$0.30 to \$0.94 per Gallon Higher in 2013

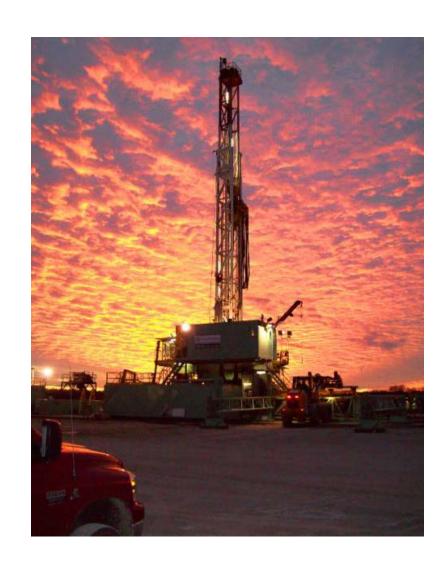


Rising U.S. production has enhanced global oil security and affordability



# U.S. Crude Oil Exports – Summary

- New abundance of light, low-sulfur tight oil production in the U.S.
- Offers tremendous economic and security benefits to the country
- Mismatch with U.S. refinery configuration presents a challenge
- Threatens to stunt tight oil development and its benefits to the U.S.
- U.S. crude exports provide a solution







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