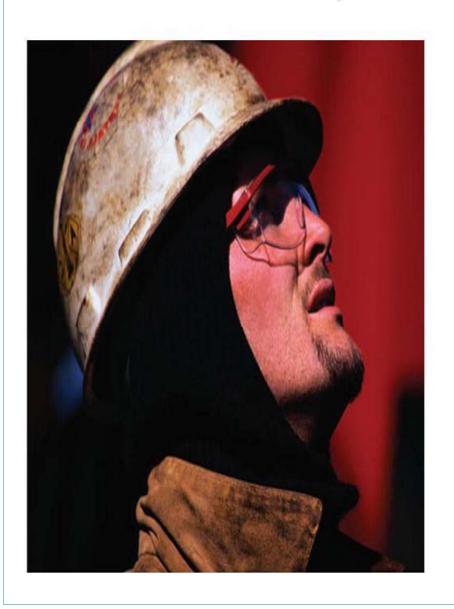
Energy: Sources, Supply and Security



Rayola Dougher Senior Economic Advisor dougherr@api.org

Oil and Natural Gas Industry is the Backbone of the American Economy



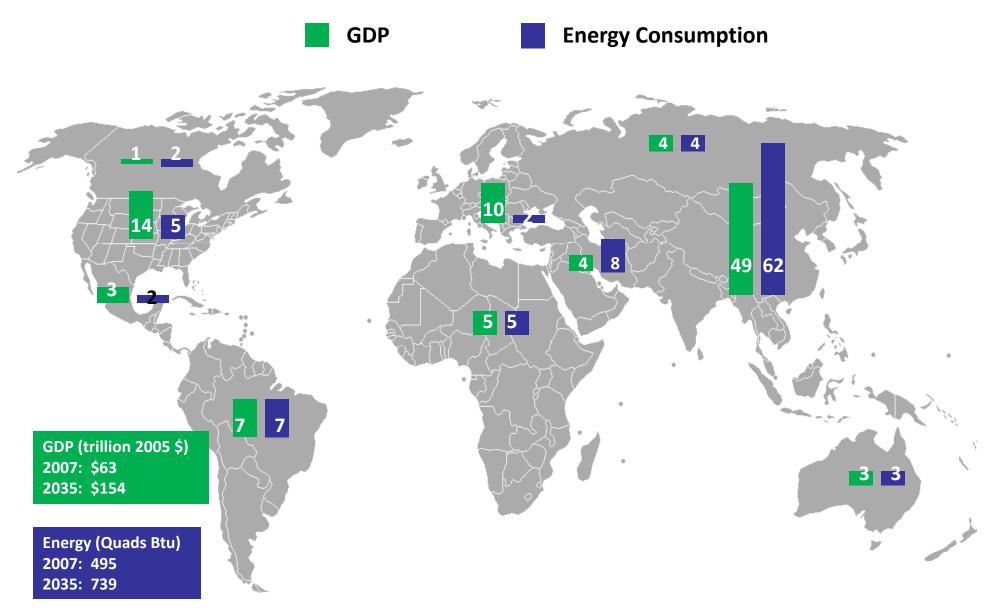
- Supports more than 9 million jobs
- Supplies over 60% of our energy needs
- Generates hundreds of billions of dollars in revenues for government

A Picture of the World at Night



Energy is the engine of our economic growth. More energy means more jobs, higher incomes, greater economic growth.

Global Economic and Energy Consumption Growth (regional shares of world's incremental growth between 2007-2035)



Source: EIA, IEO 2010

Three Priorities for Fueling Our Future

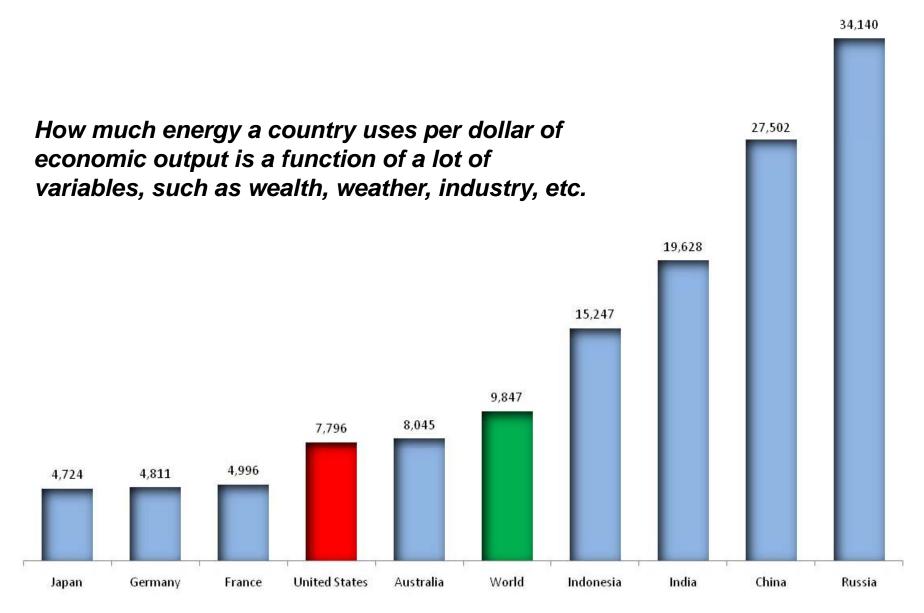
1. Consume less energy

2. Diversify supply sources

3. Invest more in new technologies

Energy Consumption per Dollar of Gross Domestic Product in 2007

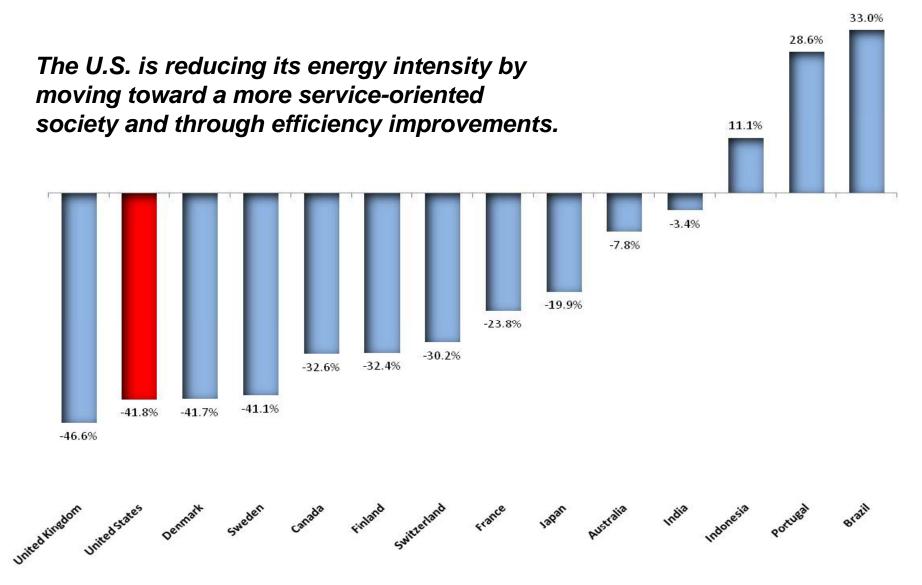
(Btu/Year 2005 U. S. Dollar at Market Exchange Rates)



Source: EIA

Change In Energy Intensity, 1980 to 2007

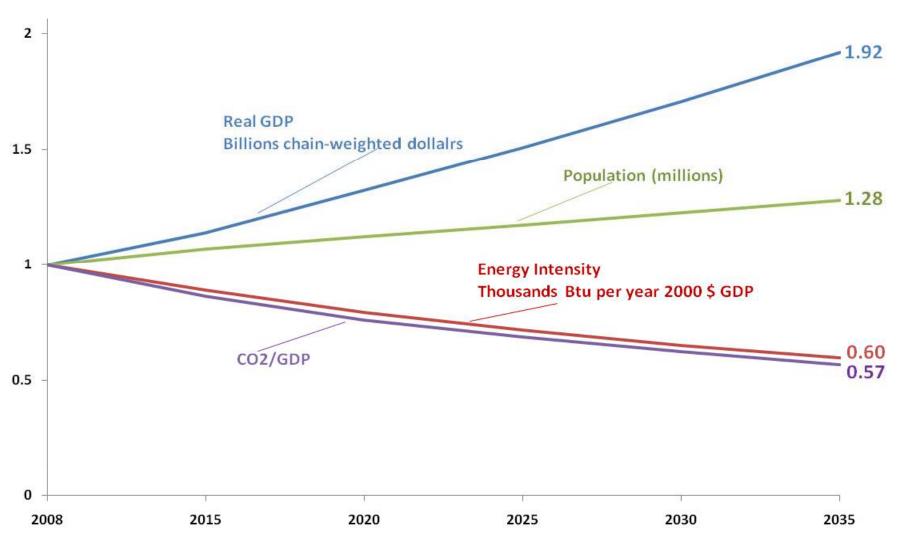
(Measured as the Change in Energy Consumption [Btus] per 2005 U. S. Dollar of GDP)



Source: EIA

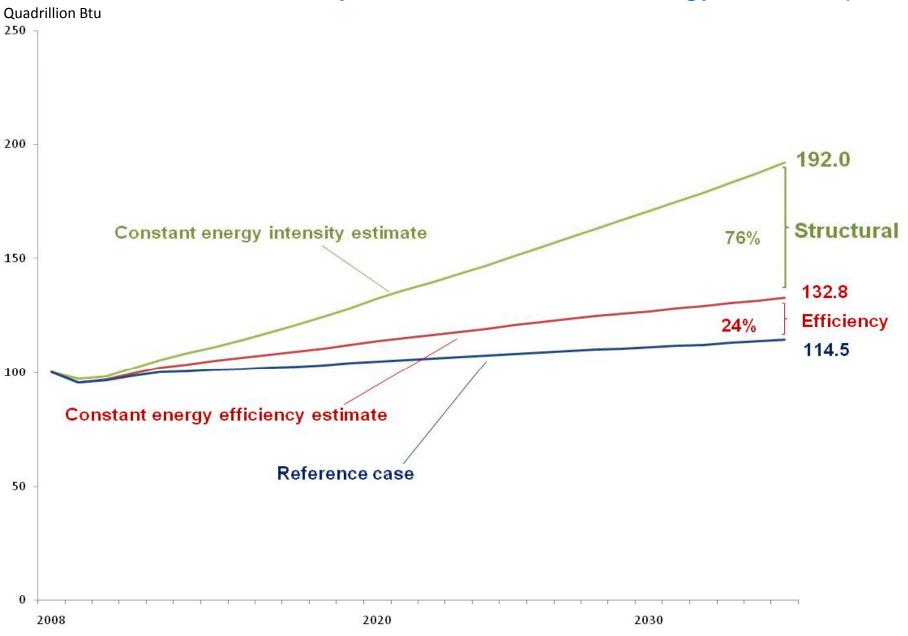
Projected Changes in Indexes of GDP, Population, Energy and Carbon Intensity, 2008-2035

(Index 2008 = 1.0)

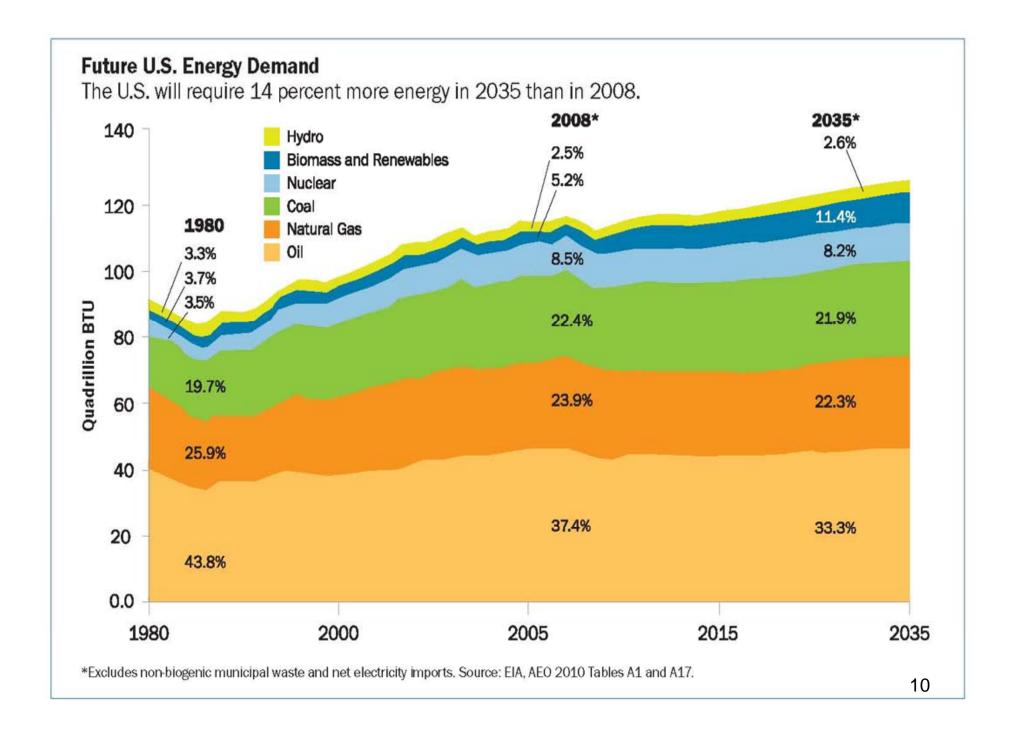


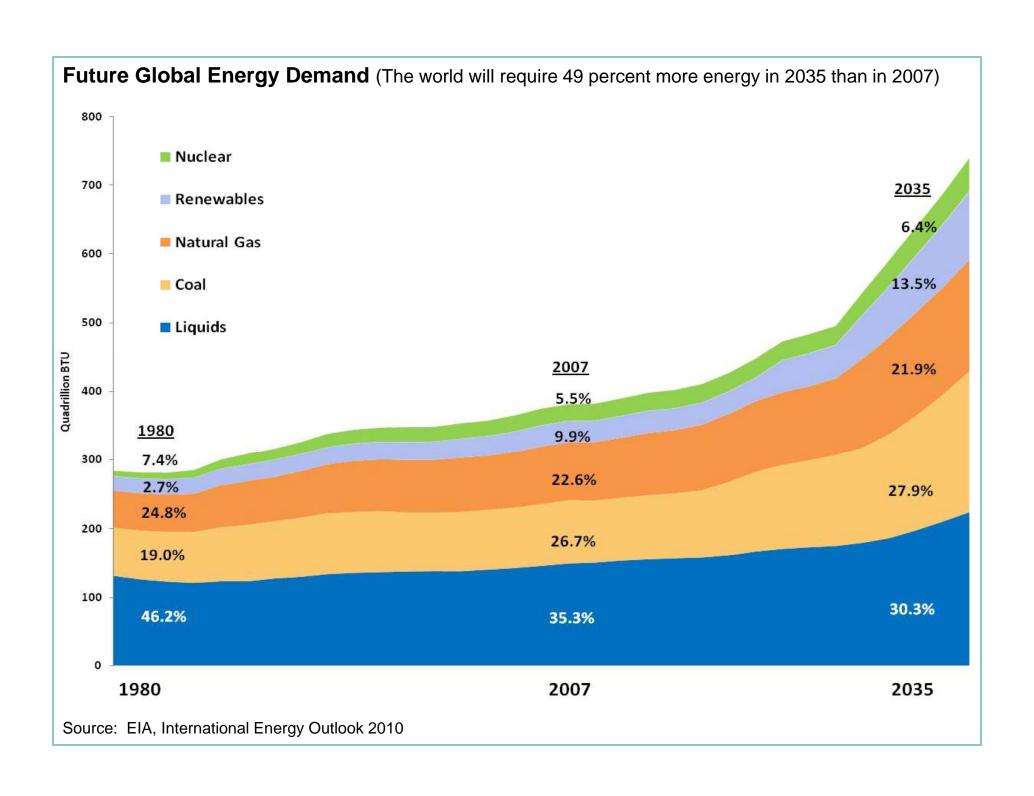
Source: EIA, AEO 2010

Structural and Efficiency Effects on Future Energy Consumption

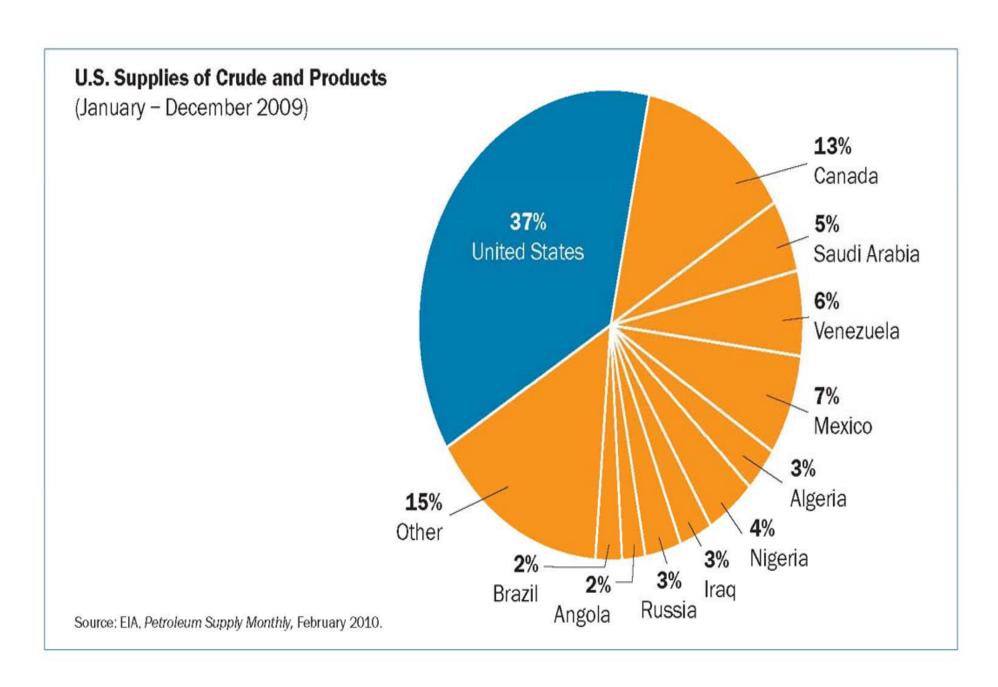


Source: EIA, AEO 2010









U.S. Crude Oil (Bbl) and Natural Gas (Tcf) Resources

(Undiscovered Technically Recoverable Federal Resources)*

Pacific Offshore

10.5 Bbl 18.3 Tcf

Lower 48, Onshore

11.7 Bbl 145.9 Tcf

Atlantic Offshore

3.8 Bbl 37.0 Tcf

Alaska Onshore

18.8 Bbl 85.1 Tcf

Alaska Offshore

26.6 Bbl 132.1 Tcf Gulf Offshore/Deepwater

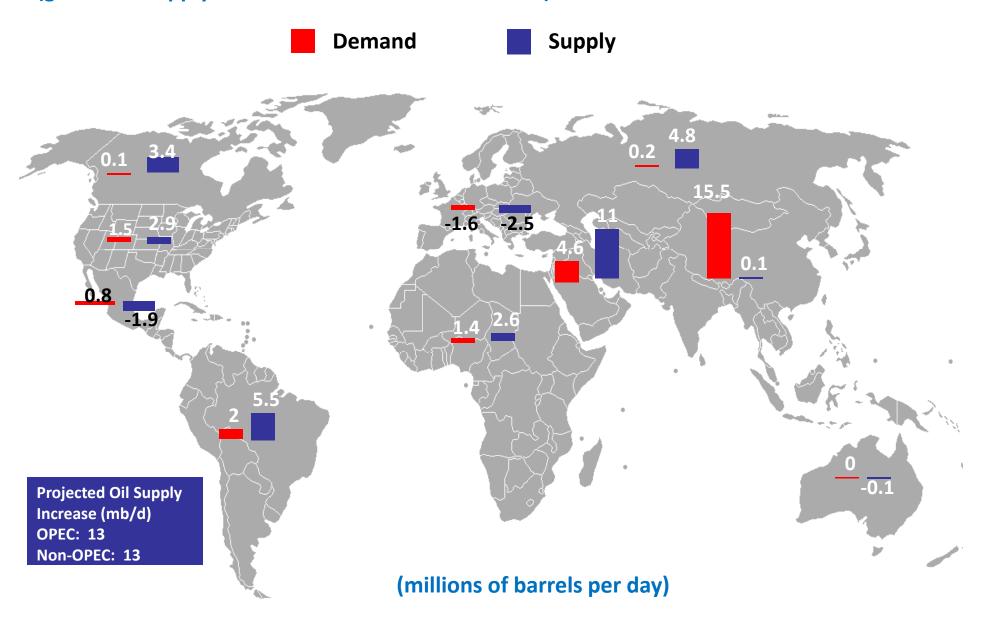
44.9 Bbl 232.5 Tcf

116.4 billion barrels is enough oil to power over 65 million cars for 60 years.

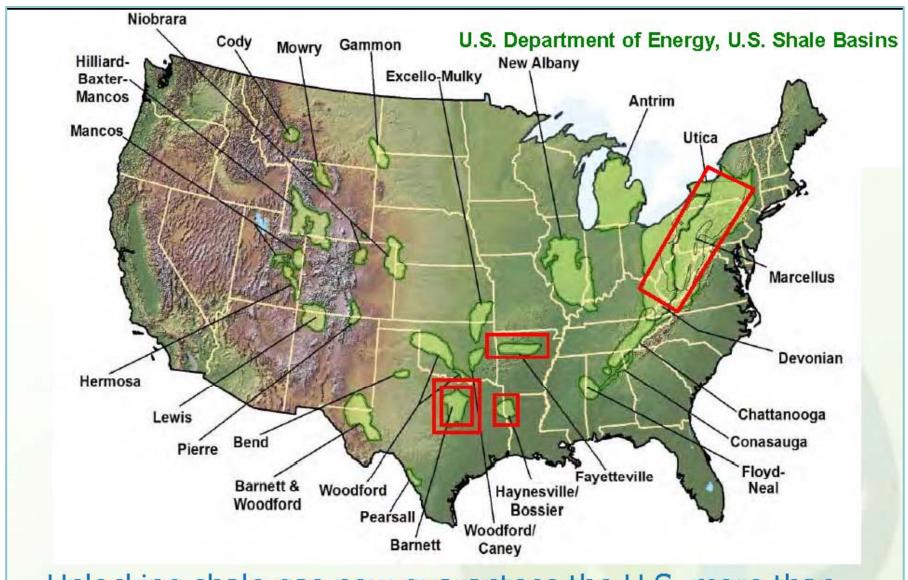
650.9 trillion cubic feet is enough natural gas to heat 60 million homes for 160 years.

^{*}Figures may not add exactly to total due to rounding. Source: MMS, BLM, and API calculations

Global Oil Trade Challenges (growth in supply and demand between 2007-2035)

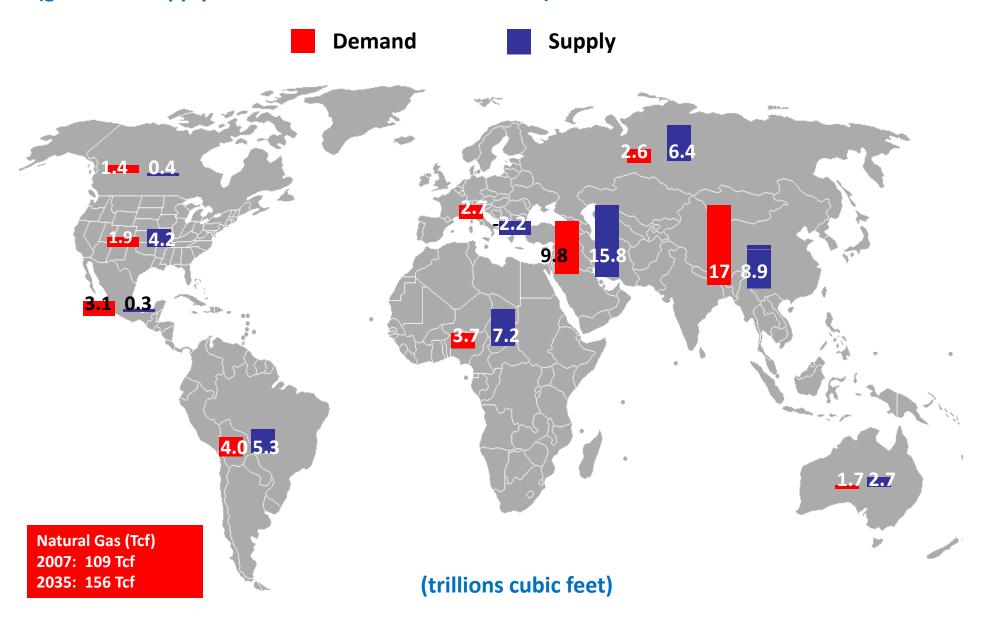


Source: EIA, IEO 2010



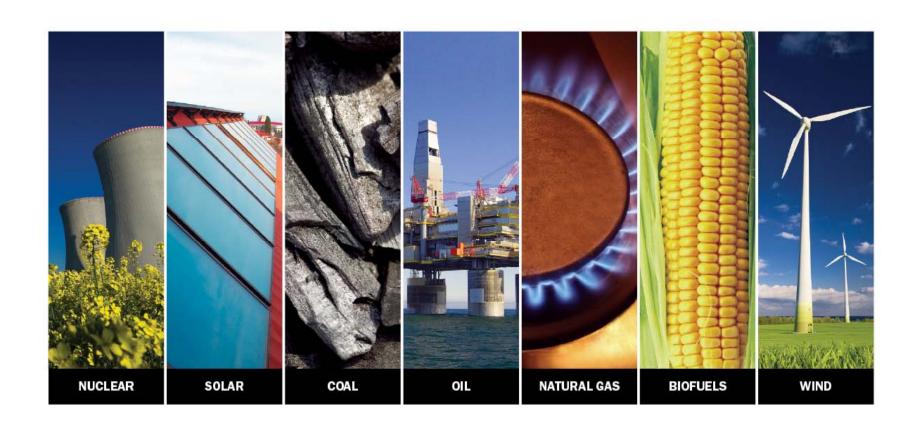
Unlocking shale gas now guarantees the U.S. more than a 100 year supply of clean-burning natural gas

Global Natural Gas Trade Challenges (growth in supply and demand between 2007-2035)

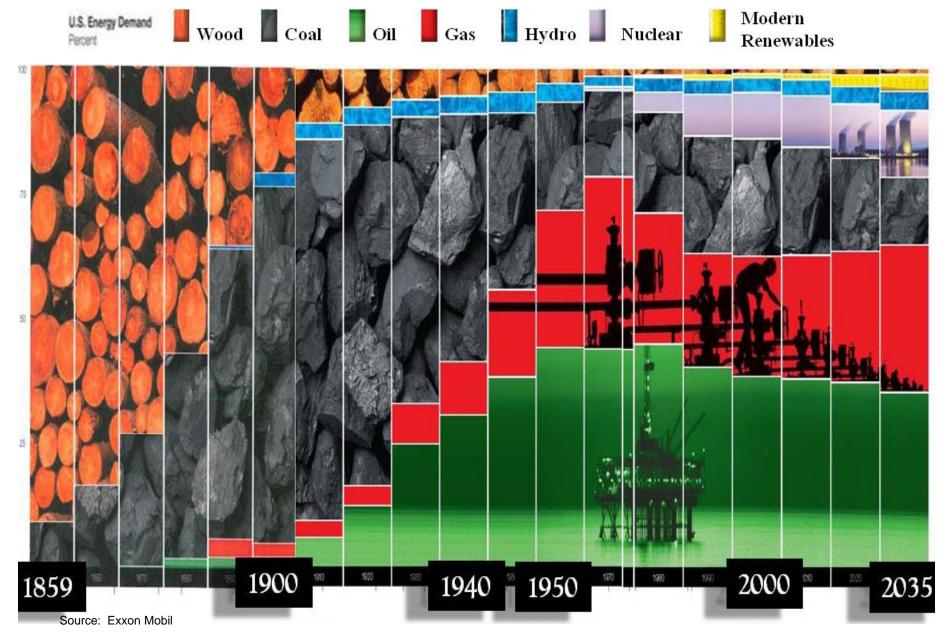


Source: EIA, IEO 2010

Invest in Energy Sources and Technology



Transition to Modern Energy/Technology



Policy Recommendations



- Increase energy production of all sources
- Encourage energy efficiency
- Encourage investment in advanced technologies
- Allow markets to work
- Refrain from new taxes
- Support need to participate in global energy markets

Thank You

For more information, visit

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