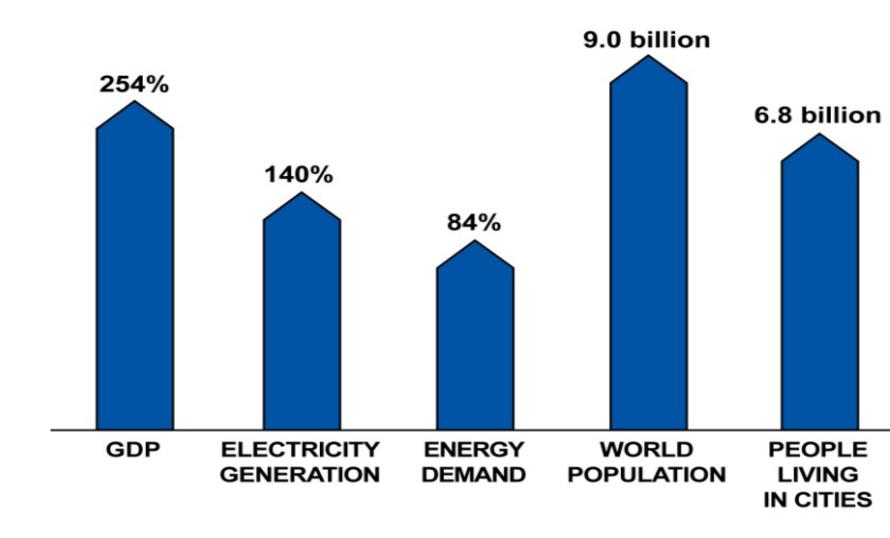


Karen A. Harbert
President and CEO
Institute for 21st Century Energy
U.S. Chamber of Commerce

Monumental Changes by 2050



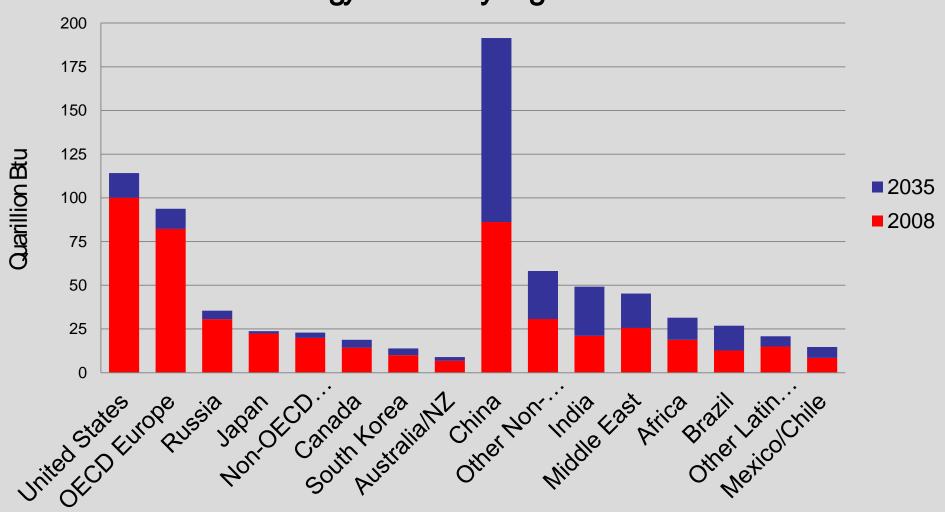
- Demand to increase 53% by 2035
 - 90% in non-OECD countries
- Electricity demand to increase 76%
- 1.6 billion people without electricity
- \$38 trillion of new investment by 2035 to meet rising demand



An Inconvenient Energy Truth



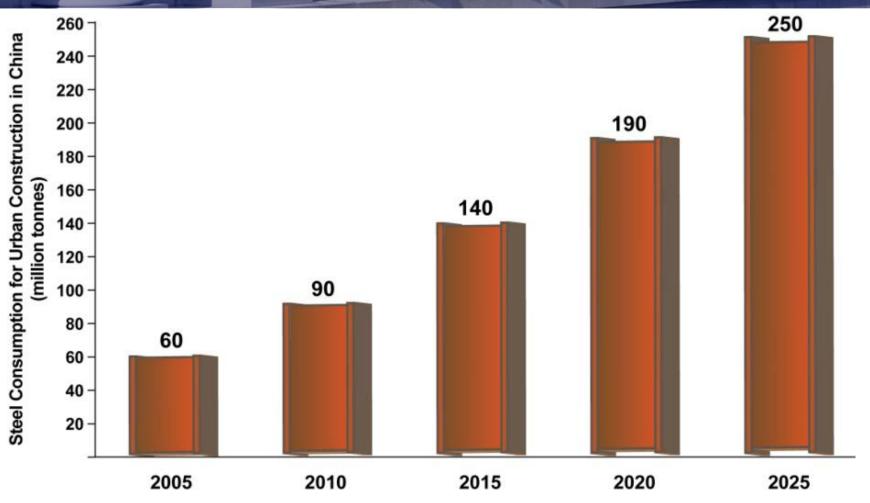
Gobal Energy Demand by Region: 2008 & 2035

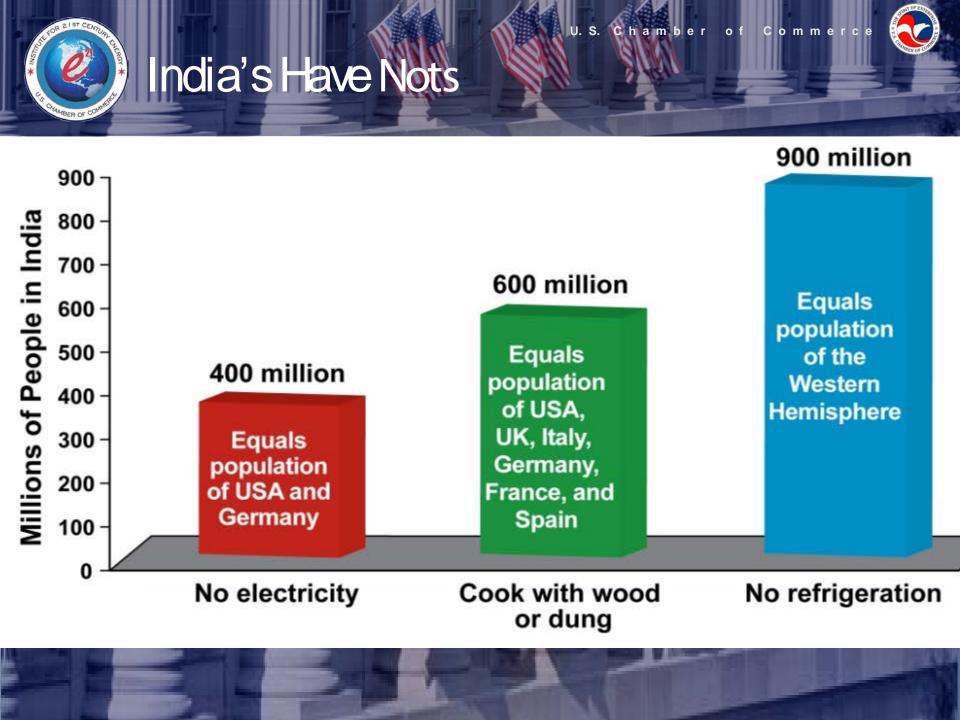






China: Fueling Urbanization

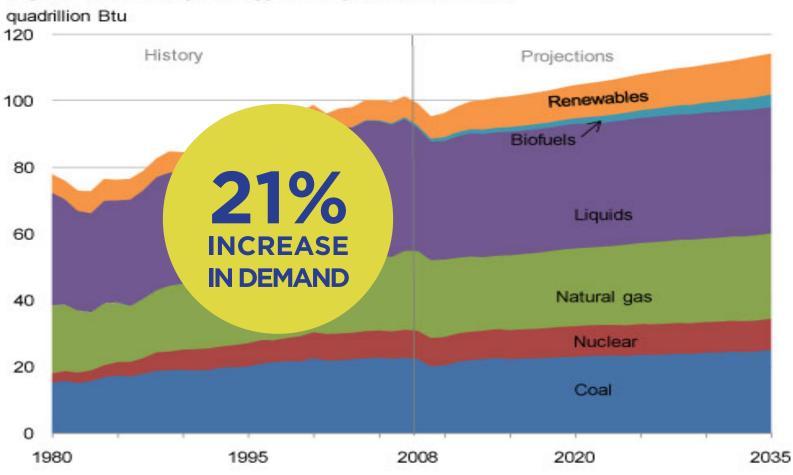






US Demand for Energy

Figure 41. Primary energy use by fuel, 1980-2035





A New Paradigm: ENERGY ABUNDANCE

- Technically Recoverable Resources
 - 120 years of Nat Gas
 - 206 Years of Oil
 - 464 years of Coal
- In-place Resources
 - 586 years of Nat Gas
 - 536 years of oil
 - 9,844 years of coal

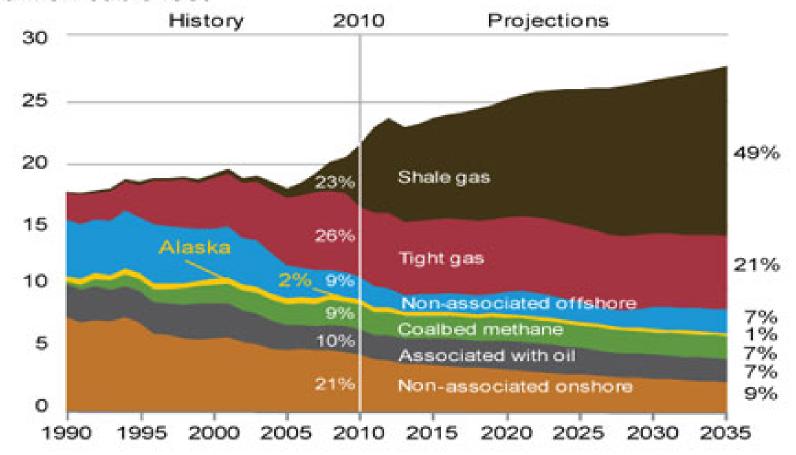
Institute for Energy Resources Analysis of U.S. Government Data



Source: U.S. Energy Information Administration based on data from various published studies. Canada and Mexico plays from ARI. Updated: May 9, 2011

U.S. Natural Gas Production, 1990-2035

trillion cubic feet

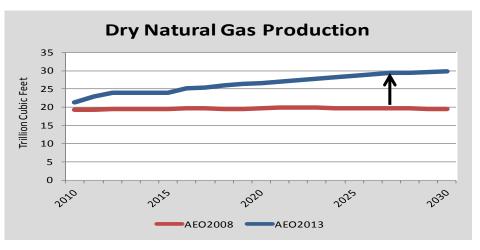


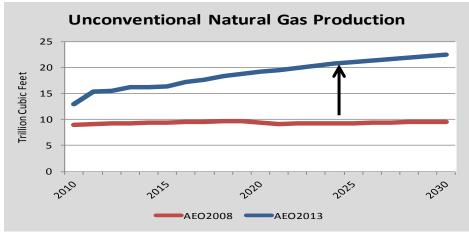
Source: U.S. Energy Information Administration, AEO2012 Early Release Overview, January 23, 2012.

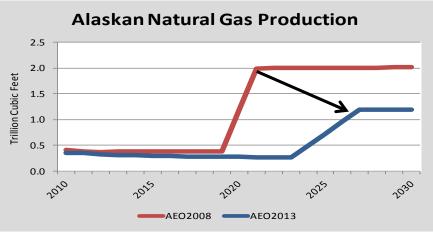


'SHALEGALE": U.S. NATURAL GAS SUPPLY OUTLOOK

What a difference 4 years makes









	2012	2015	2020	2035
Jobs Supported				
(millions)	1.75	2.5	3	3.5
New Government				
Revenue (billions)	\$62	\$91	\$111	\$124
Economic Growth				
(billions)	\$237	\$350	\$417	\$475
New Labor				
Income (billions)	\$125	\$181	\$215	\$250



Fueling Our Economy

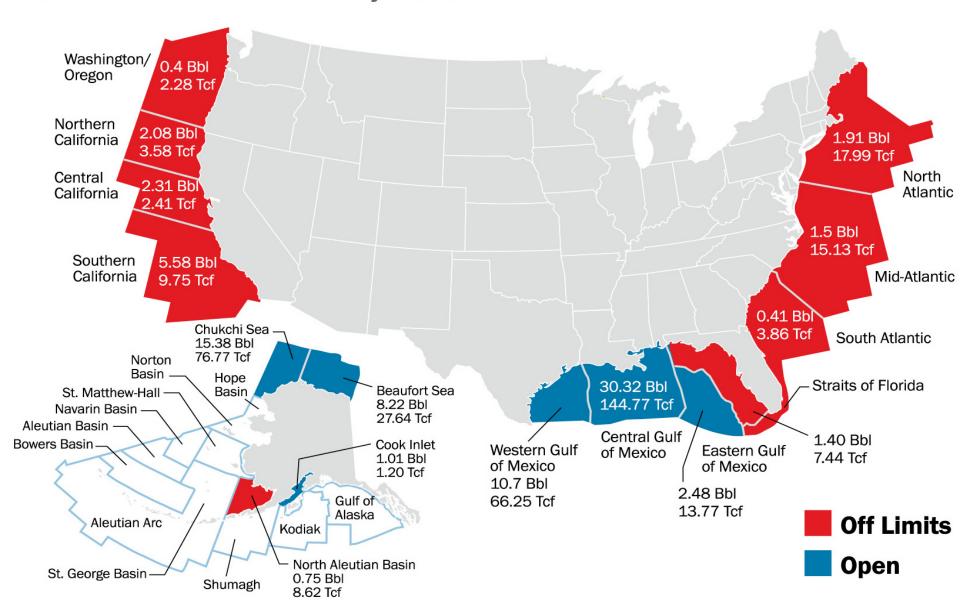
- > Shale plays are on pace to create
 - +200,000 jobs in OH by 2020
 - +115,000 jobs in PAby 2020 (150,000 existing)
 - +100,000 jobs in TX, LA, and MS
- > OI & Gas sector created 9% of all American jobs in 2011
- > Shale is driver behind 68% increase in domestic oil production by 2020.
- Net oil imports expected to decrease 60% in 2020.. reducing America's import bill by \$200B by 2020.
- Manufacturing Renaissance
- > Return of the Chemical, Fertilizer, Steel Industries
- Change the Geopolitical Balance in US favor



Fueling Our Economy

- By 2035, U.S. unconventional oil and natural gas could generate more than:
 - 3.5 million newjobs;
 - \$2.5 trillion in additional revenue;
 - \$5.1 trillion in investment
 - and 10 million barrels worth of added daily oil and natural gas production

Offshore Undiscovered Technically Recoverable Federal Oil and Natural Gas Resources

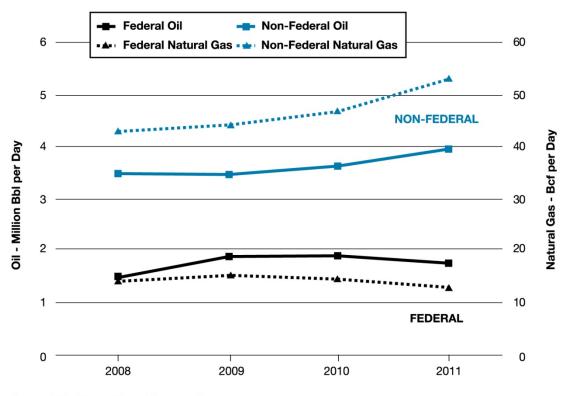


Source: MMS and Department of the Interior



Where the Action IS and ISVT

U.S. Oil and Natural Gas Production on Federal vs. Non-federal Lands and Waters

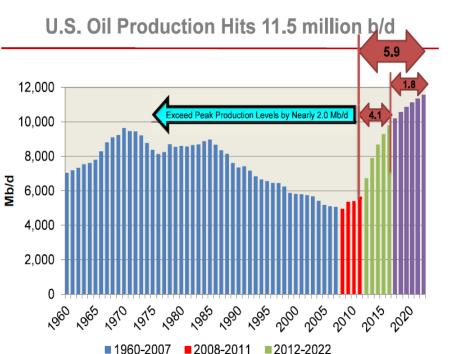


Source: EIA, Office of Natural Resource Revenue



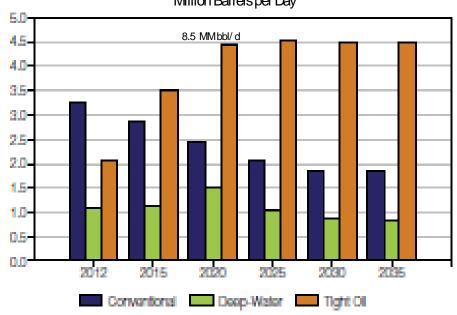
Other U.S. Crude Oil Supply Scenarios





Source: BENTEK Orude Awakening Part 6



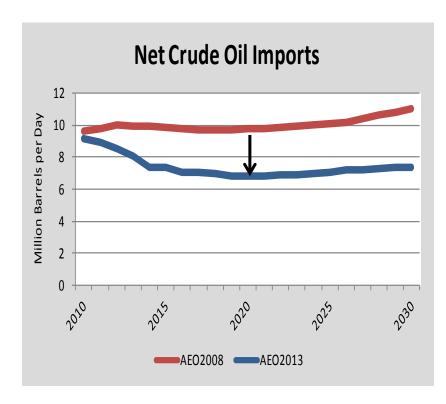


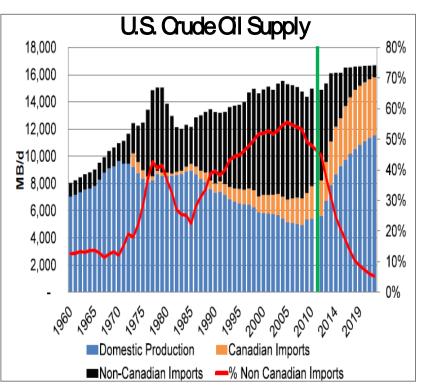
Source: IHS, America's New Energy Future.



OJTLOOK FOR U.S. CRUDE OIL IMPORTS





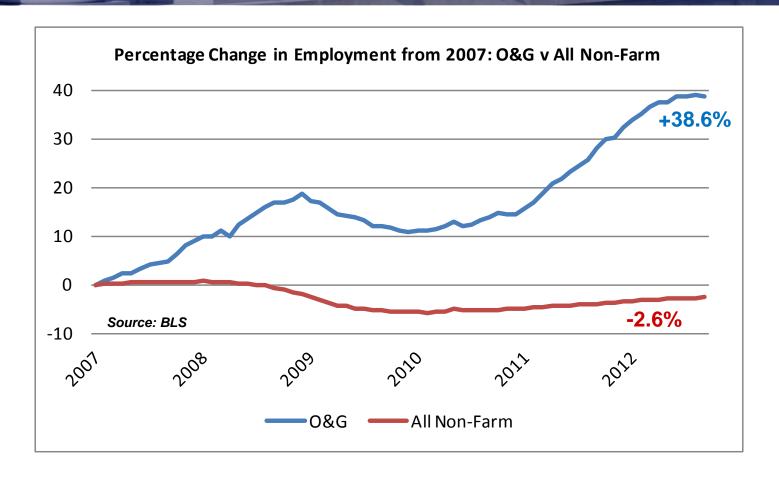


Orude oil imports decline because of:

(1) flat demand for oil; and (2) greater domestic output.



OI& Gas is THE Job Driver





Keystone XL Pipeline proposal

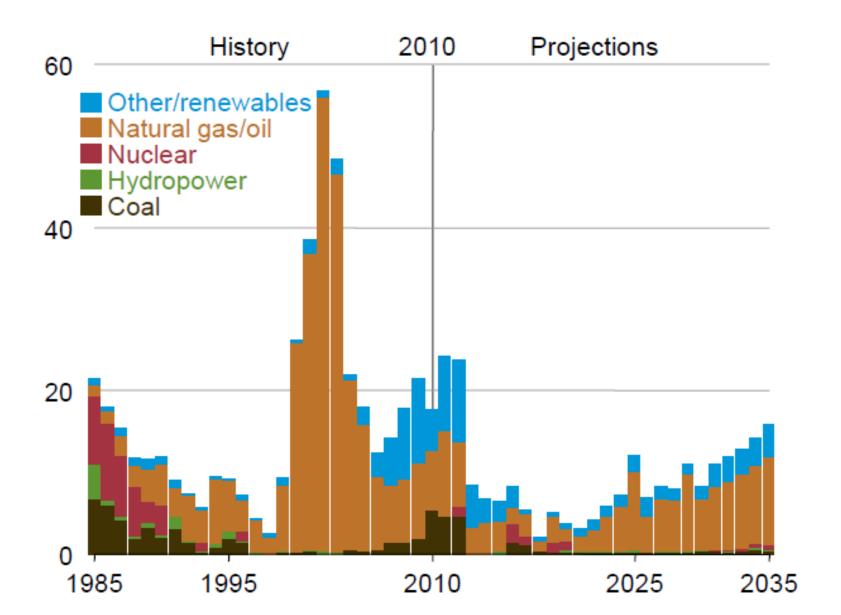




Canadian Cil Sands Benefits

- Currently supports 80,000 U.S. jobs
- Could increase to 94,000 600,000 U.S. jobs by 2035
- Keystone XL pipeline could create 20,000 US manufacturing jobs immediately and 250,000 by 2035
- The projected impact to U.S. GDP would be between \$200 billion - \$800 billion;

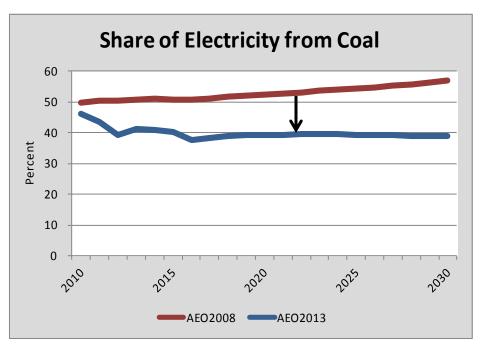
Electricity Generating Capacity Additions 1985-2035 (gigawatts)

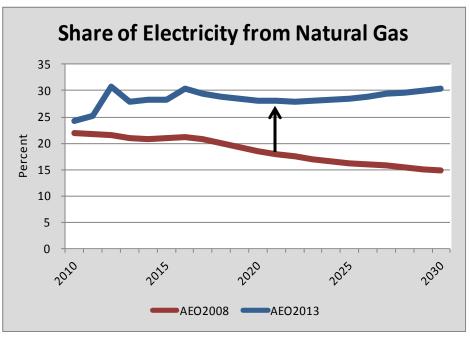




Natural Gas-Fired Power Stations Will Gain Share





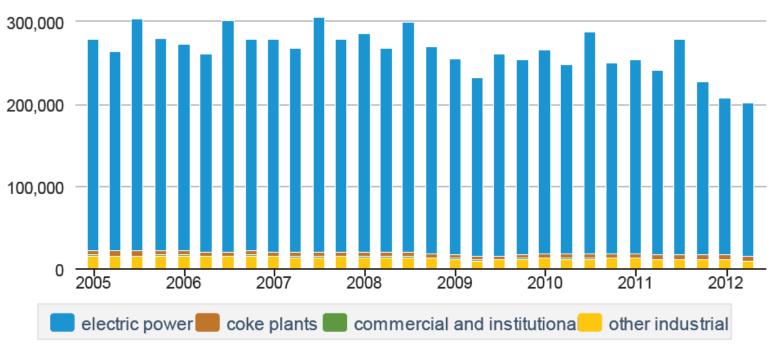


Growing interdependency of natural gas & electricity supplies creating market challenges that could affect reliability.



Domestic Coal Consumption Down



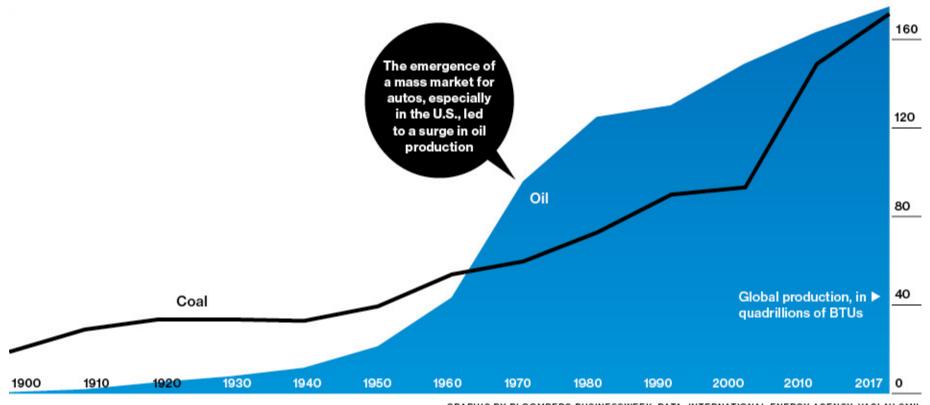


Source: EIA Quarterly Coal Report 10-4-12

U.S. Consumption Down 27% in five years



Gobal Coal Demand Way Up



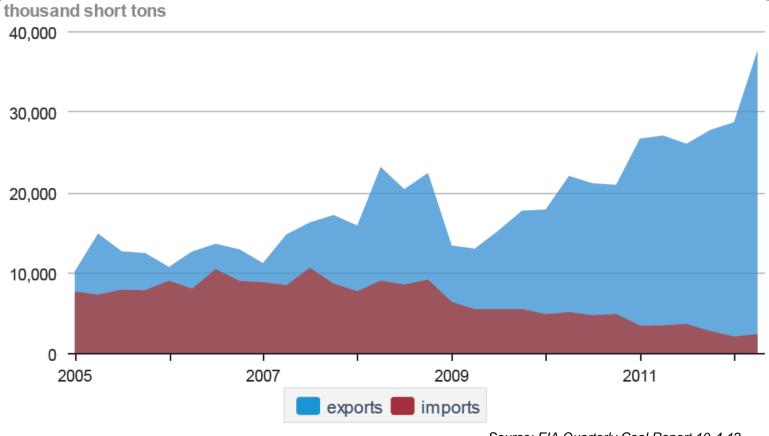
GRAPHIC BY BLOOMBERG BUSINESSWEEK, DATA: INTERNATIONAL ENERGY AGENCY, VACLAV SMIL

Gobal production to meet oil by 2017





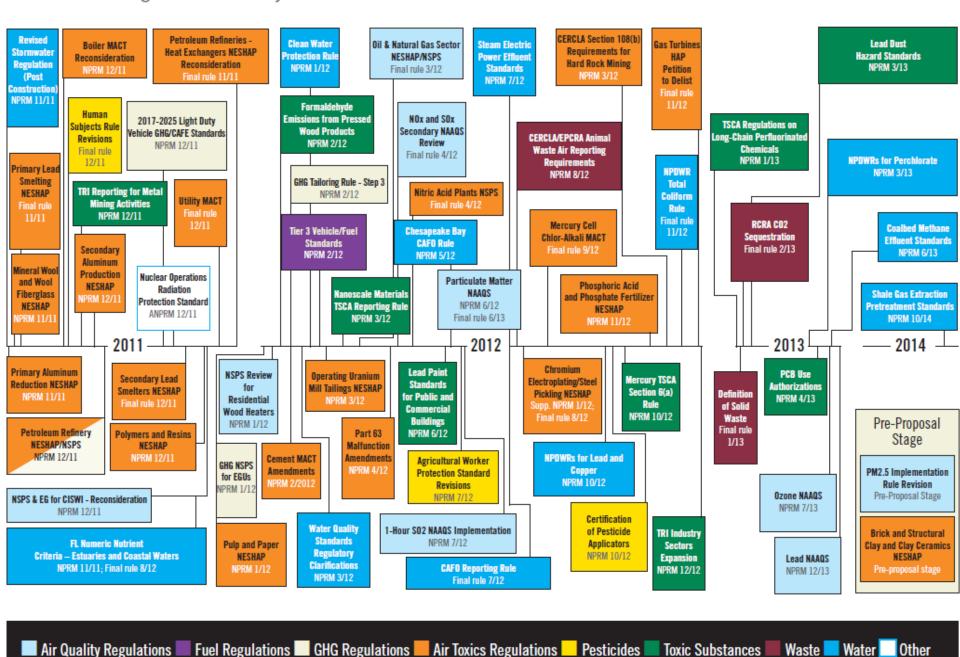
Coal Exports Up...WAYUP



Source: EIA Quarterly Coal Report 10-4-12

Exports have increased 190% in three years 2012 will beat all-time high in 1981

EPA's Rulemakings on the Runway





Project No Project www.projectnoproject.com



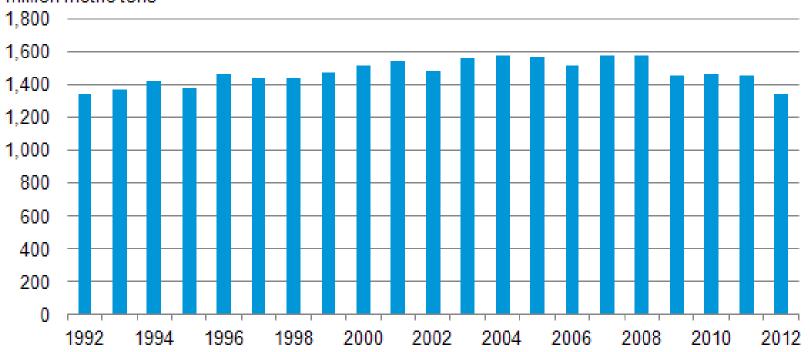






BACKTOTHERUTURE







U.S. Strategy-More Realism

"NOSILVER BULLET APPROACH"

- Maximize Efficiency
- Increase domestic oil and gas
- Recognize role for nuclear and dean coal
- Newalternative transportation fuels
- Sustainable policy on renewables
- Modernize our infrastructure
- Exert authority to get beyond NOPE syndrome
- Invest in our technology solutions and our intellectual foundation for innovation
- Achievable Climate Approach



ONTHETABLE: America's national security, investment climate and competitiveness

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