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webinar will begin shortly.**



Entrepreneurs, Energy and Environment (E3)

A National program from WIPP's "Women, Money and Opportunity" series.

E3 is designed to bring you an extensive curriculum focused on energy sources, sustainability, government policy and innovation opportunities as they relate to your business.

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Entrepreneurs, Energy and Environment Training 125:

Energy Trends – 2012 and Beyond

Course Instructor: Alison Williams,
Senior Energy Analyst
Bloomberg Government



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U.S. ENERGY TRENDS

2012 AND BEYOND



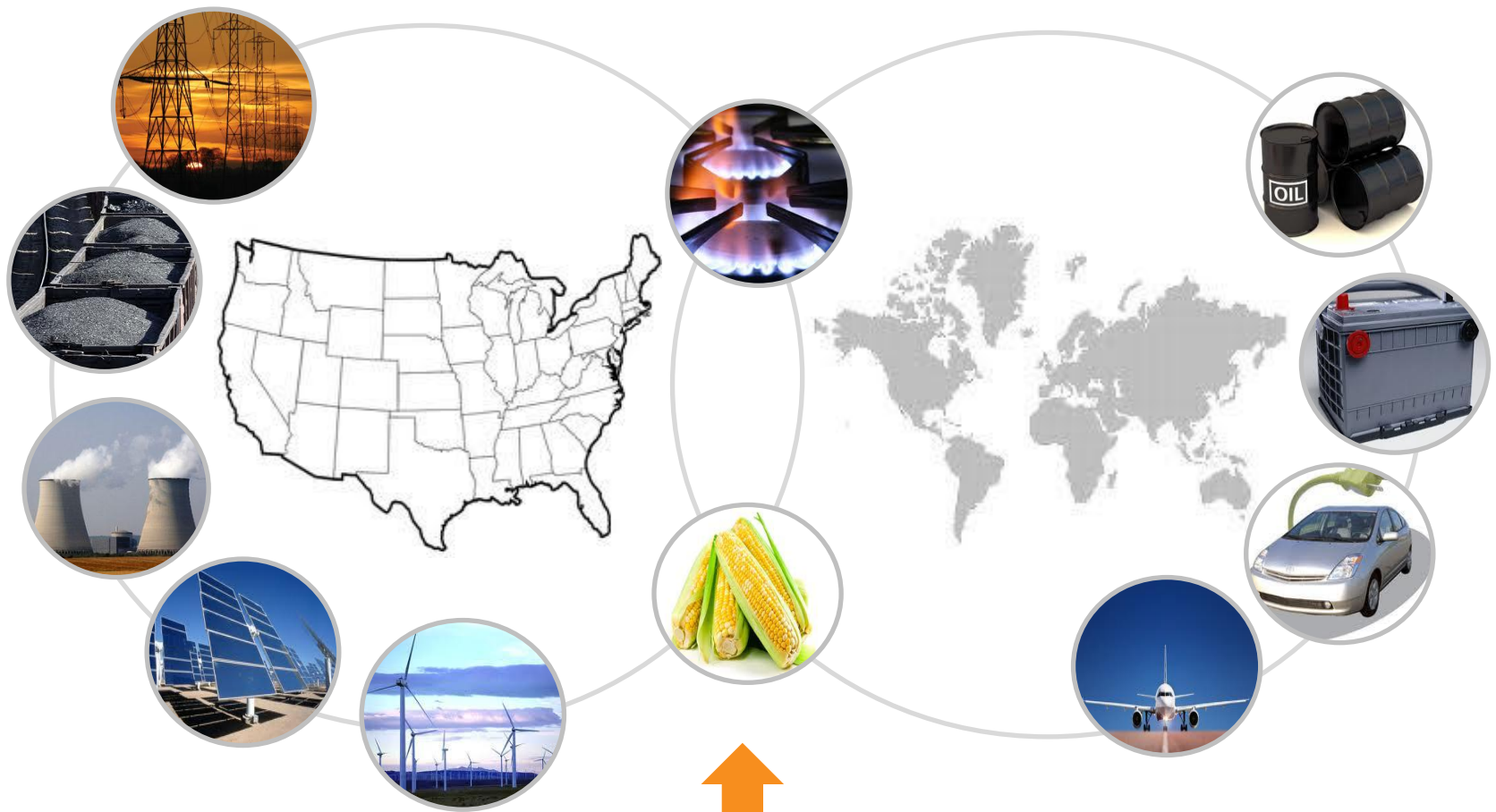
WOMEN IMPACTING PUBLIC POLICY
WEBINAR
JANUARY // 26 // 2012

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ENERGY IN CONTEXT>>>

POWER

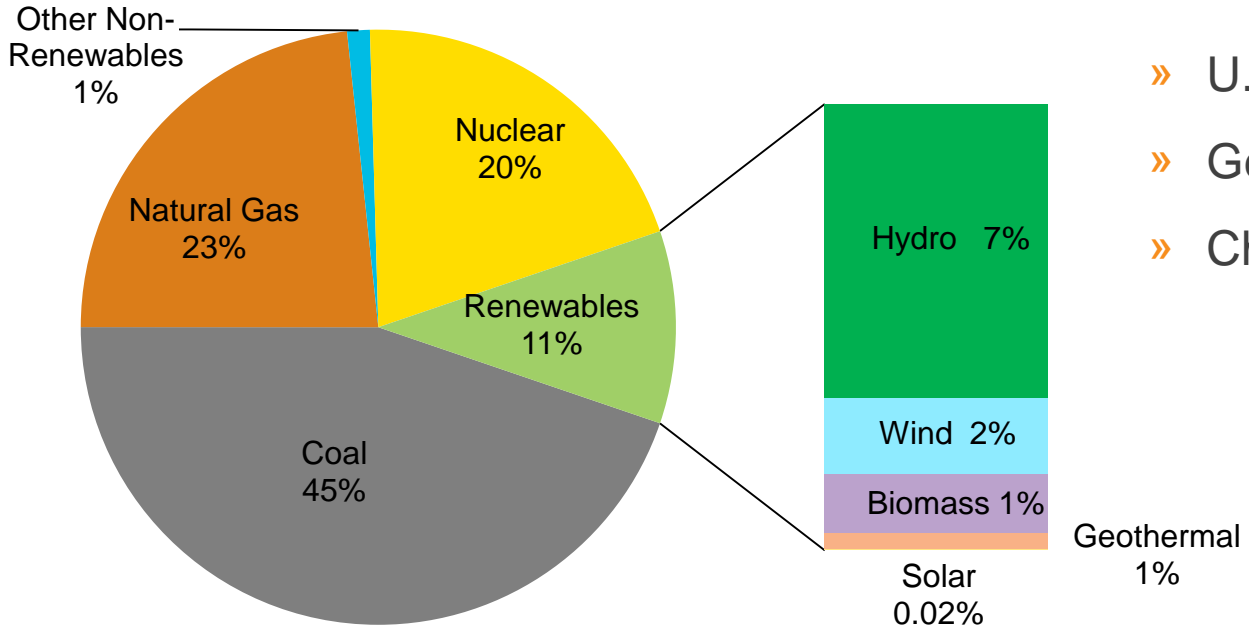
TRANSPORTATION



POLICY

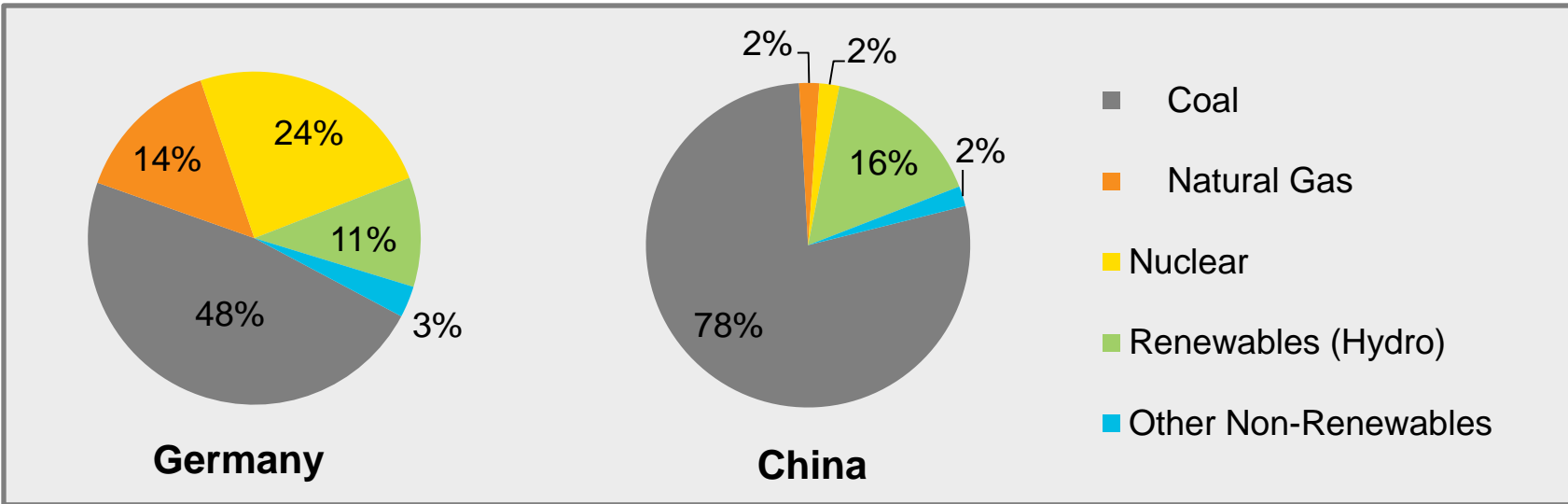
POWER SECTOR>>> NOW

U.S. Electricity Generation (2009)



Electricity Consumption

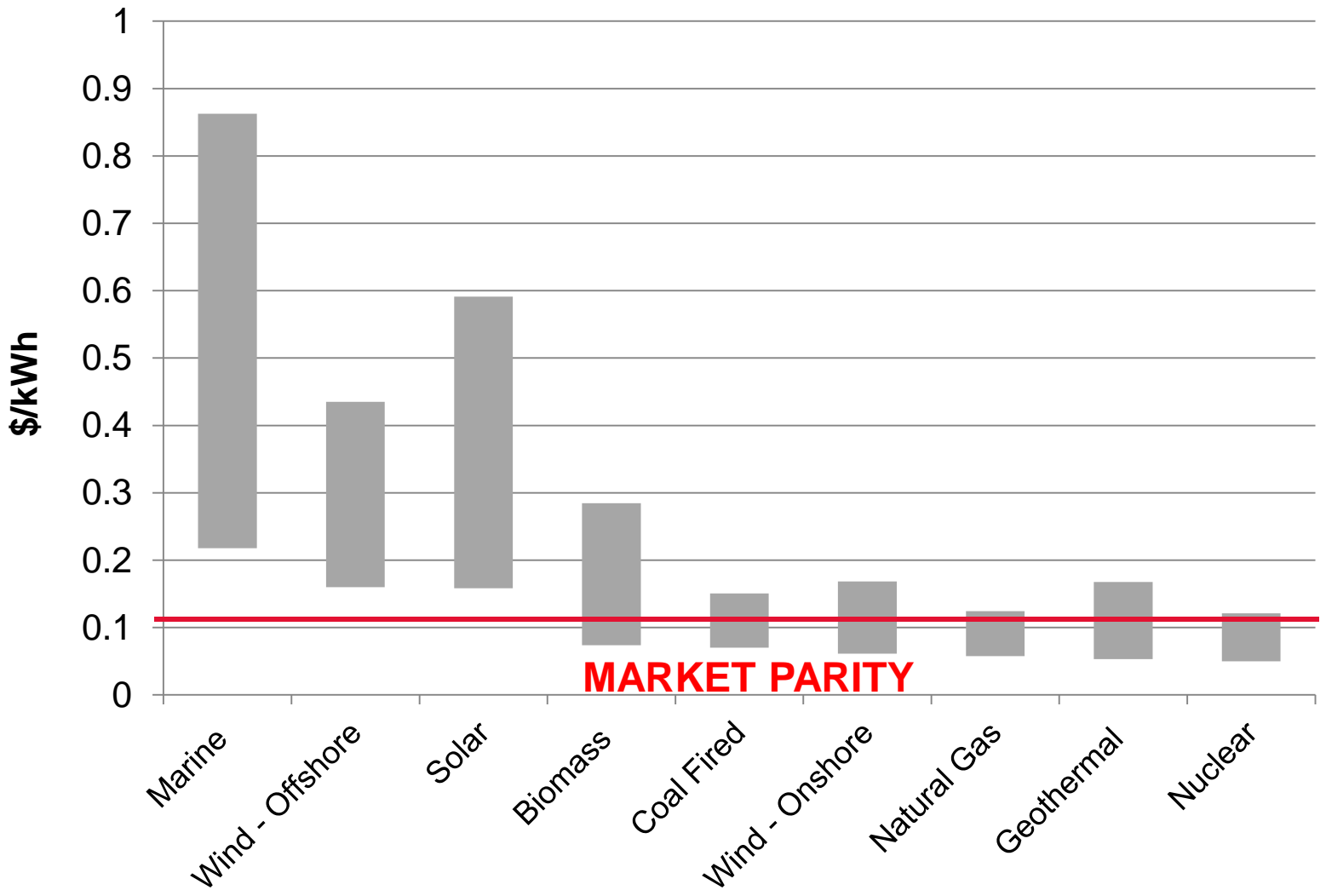
- » U.S.: 13,635 kWh/person
- » Germany: 7,113 kWh/p
- » China: 1,780 kWh/p



Sources: Bloomberg, EIA, EarthTrends

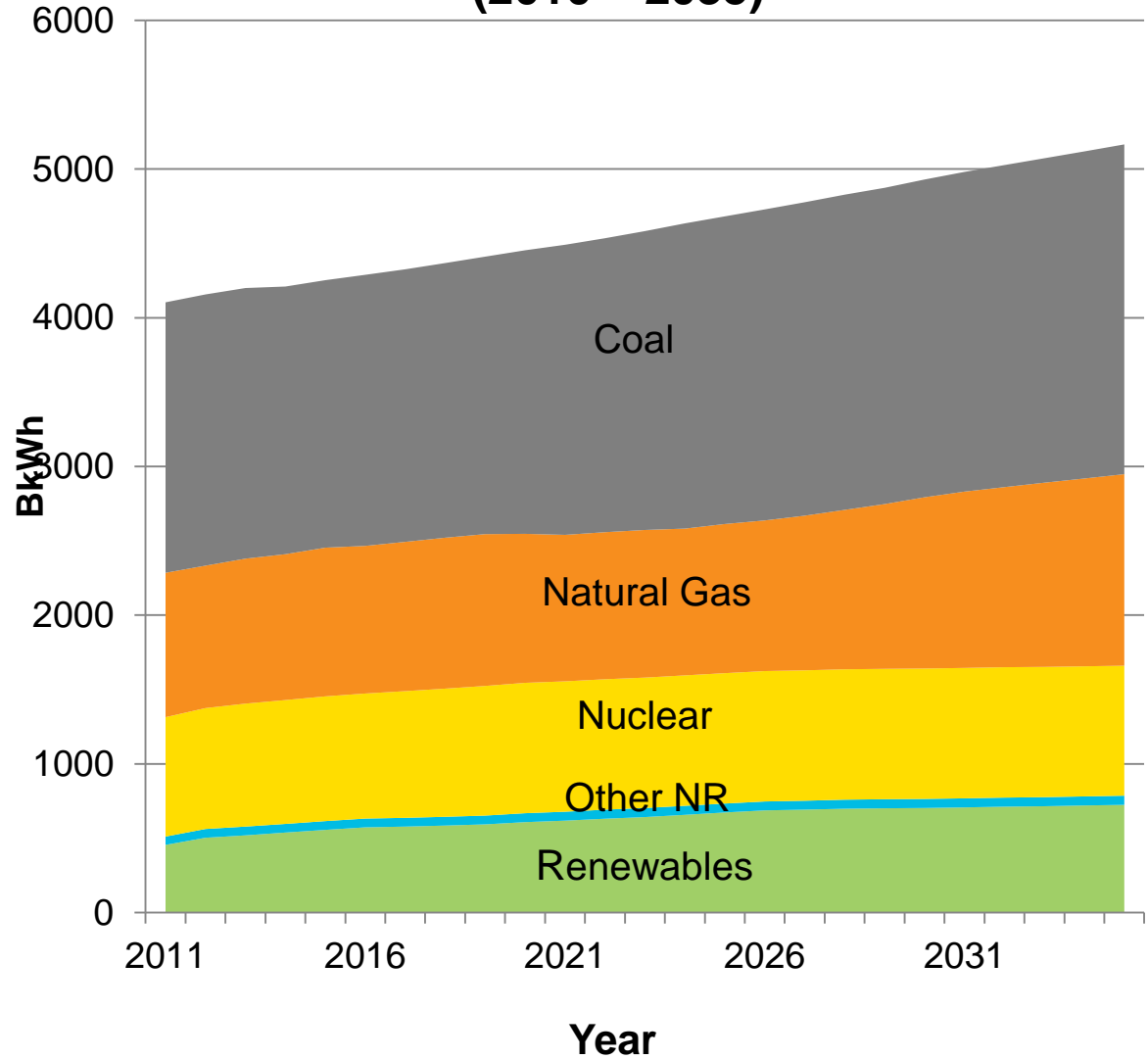
POWER SECTOR >>> COST

AT WHAT PRICE DO RENEWABLES BECOME COMPETITIVE? (Levelized Cost of Energy)



Sources: Bloomberg, University of Chicago

U.S. Electricity Generation Forecast (2010 – 2035)

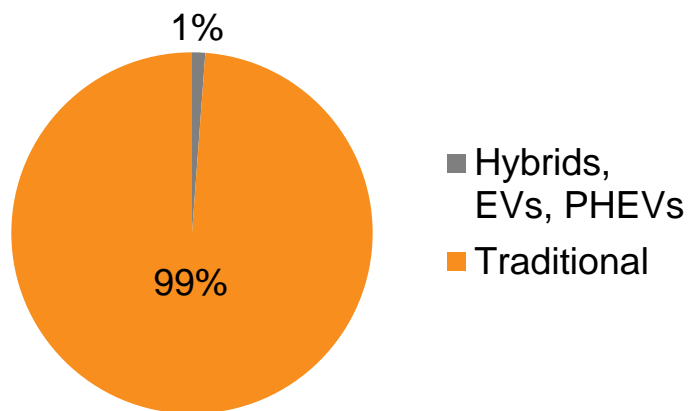


ENERGY EFFICIENCY

- » Keep societal costs down
- » Keep usage steady
- » Buildings sector expected to shoulder the burden

Sources: EIA

U.S. Passenger Vehicles



- » ~254 million passenger vehicles
- » < 2M hybrids
- » < 1 M Electric Vehicles, Plug-Ins

U.S. Transportation Fuel Use

- » Oil: U.S. consumes 18 mbpd
- » Oil: U.S. imports <60%
- » Ethanol: ~5% U.S. fuel use

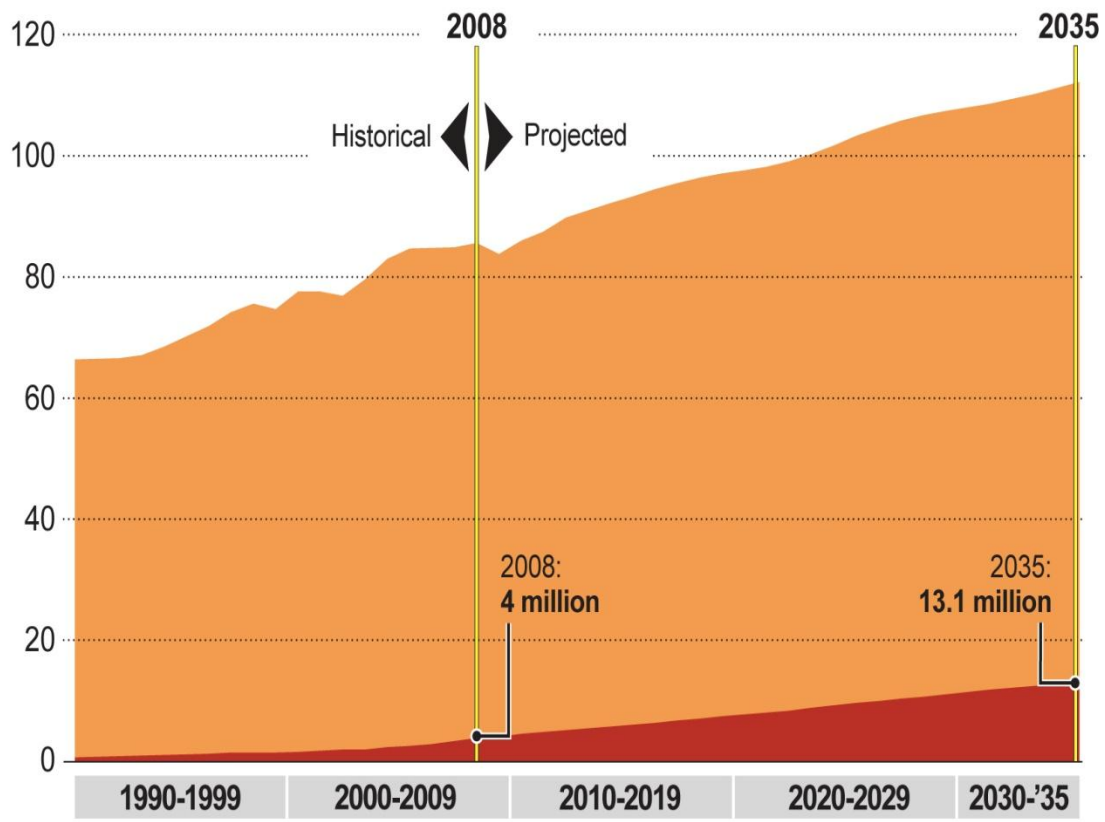
Top U.S. Oil Imports by Country

1. CANADA
2. SAUDI ARABIA
3. MEXICO
4. VENEZUELA
5. NIGERIA

TRANSPORTATION >>> FUTURE

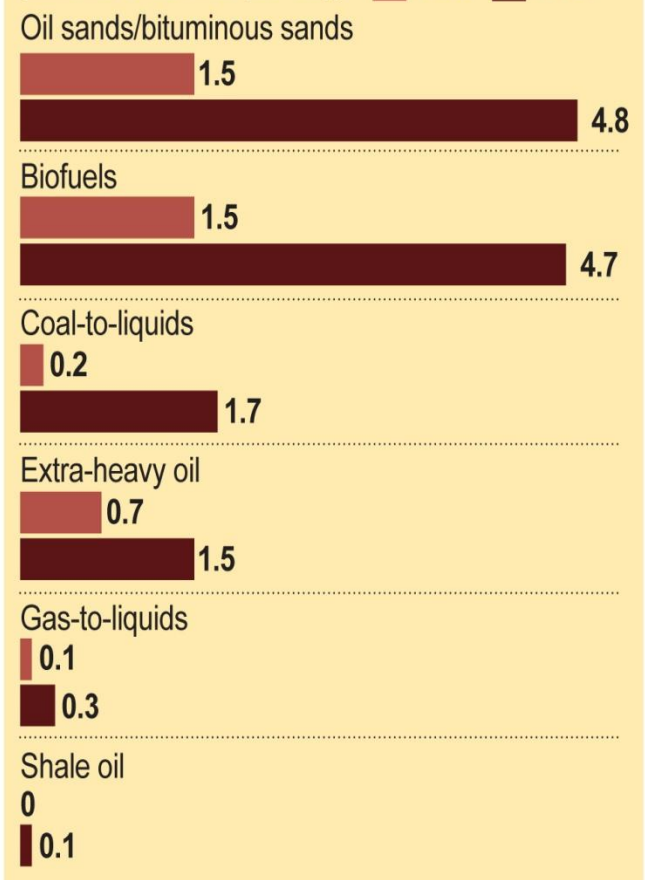
Global liquid fuels production

(millions of barrels per day) ■ Conventional ■ Unconventional



Unconventional production

(millions of barrels per day) ■ 2008 ■ 2035



Source: U.S. Energy Information Administration's International Energy Outlook 2011

Graphic: George Petras
BGOVgraphics@bloomberg.com

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History

- » Lieberman-Warner, 2007
- » Waxman-Markey, 2009
- » Clean Energy Standard, 2011

Path Forward

- » Multi-pronged approach
 - » Existing state authority
 - » EPA regulatory authority
 - » Efficiency standards
 - » Vehicle fuel standards

TOP MOVERS IN ENERGY>>>

POWER

TRANSPORTATION



- » NATURAL GAS
- » SOLAR
- » TRANSMISSION & GRID



- » OIL SANDS
- » SHALE OIL

ENERGY EFFICIENCY

CAFE STANDARDS



POLICY

WHAT TO WATCH FOR IN 2012...

- » KEYSTONE PIPELINE DECISION
- » FEDERAL, STATE, LOCAL DISPUTES OVER NATURAL GAS
- » FIGHT ON SUBSIDIES
- » QUIET(ER) EPA
- » FEDERAL LAND DEVELOPMENT

- » AND...CAMPAIGNING!

QUESTIONS?

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