



OVERVIEW OF TODAY'S ENERGY INDUSTRY

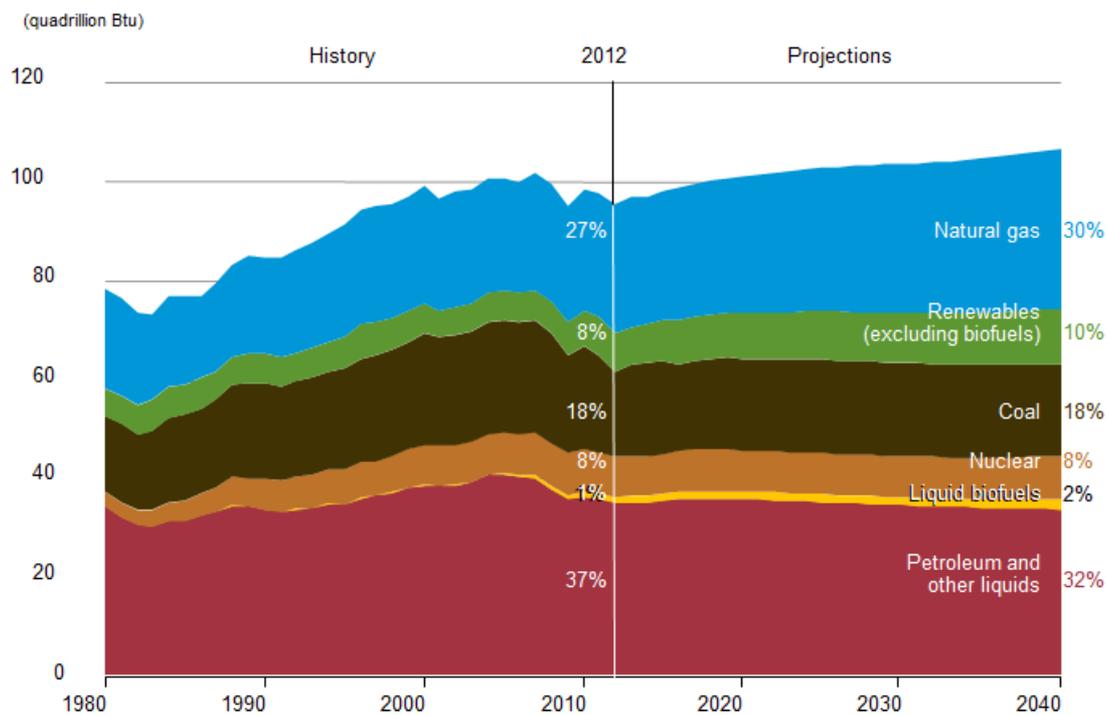
Barry Worthington
Executive Director
United States Energy Association

April 22, 2015
Washington, D.C.

American Association of Port Authorities
Spring Conference

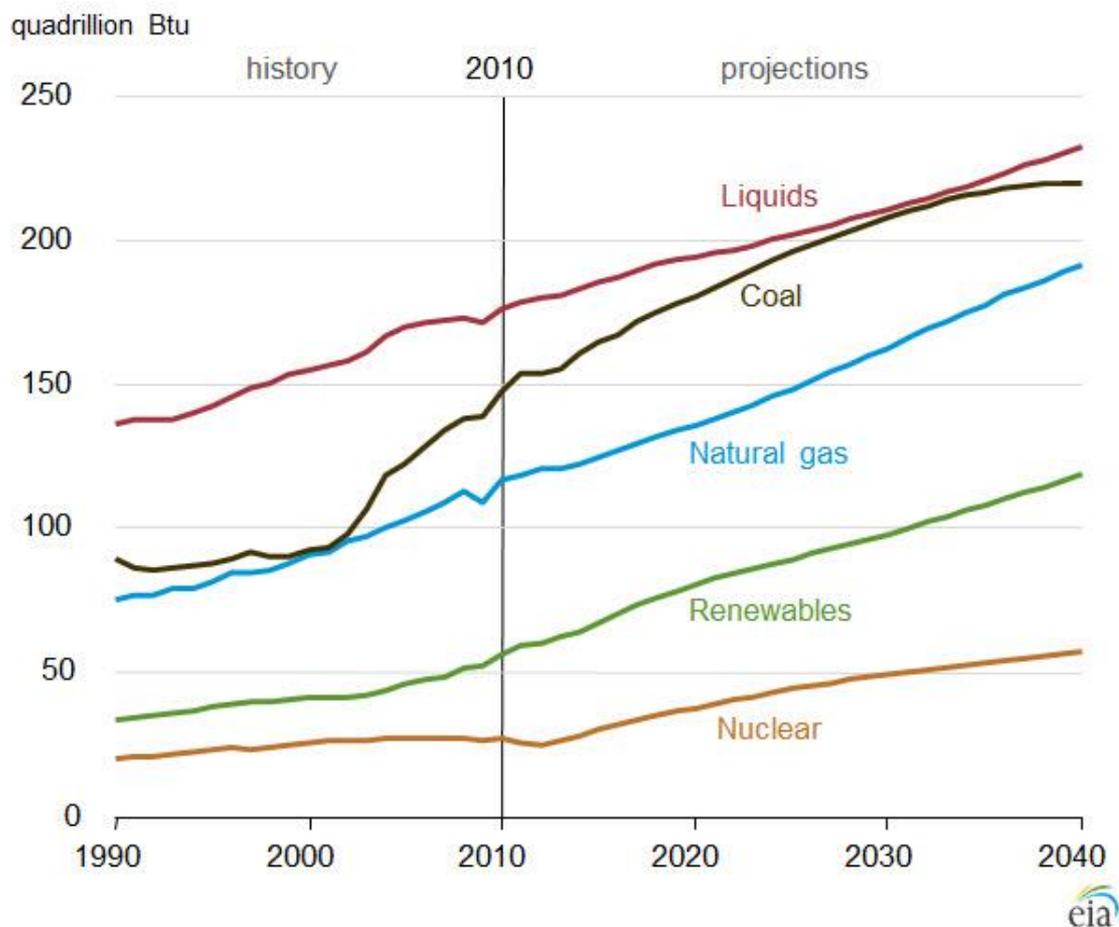
US Energy Consumption

Figure 8. U.S. primary energy consumption by fuel, 1980-2040



Global Energy Consumption

Figure 2. World energy consumption by fuel type, 1990-2040



Energy Imports

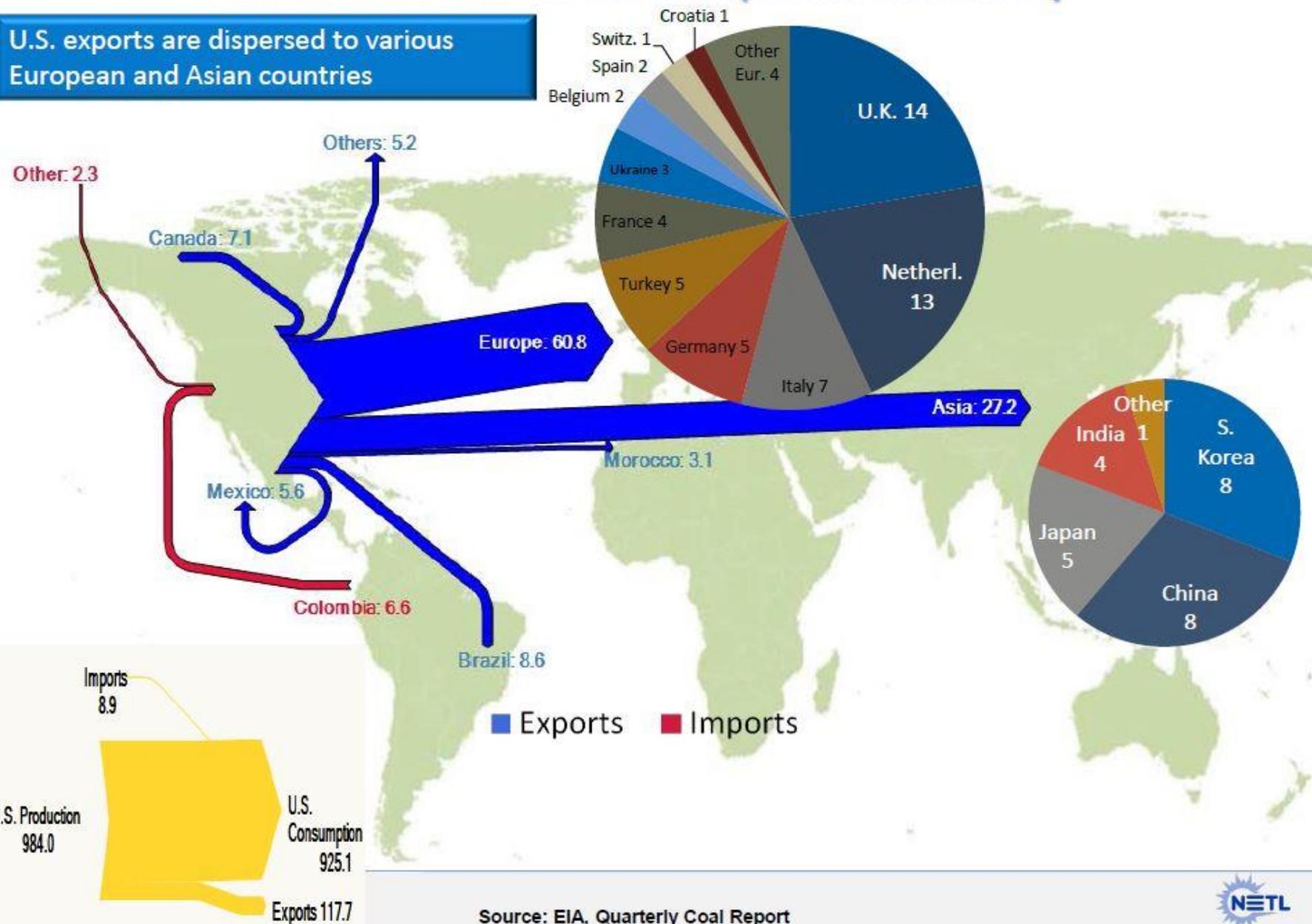
Energy Product	Amount Imported	Unit of measure	Data Yr.
Crude Oil	8526.653	thousand barrels per day	2012
Natural Gas	2883	billion cubic feet	2013
Electrical Power	63.6	billion kilowatthours	2013

Energy Exports

Energy Product	Amount Exported	Unit of measure	Data Yr.
Natural Gas	1572	billion cubic feet	2013
Electrical Power	11.284	billion kilowatthours	2013
Refined Petroleum Products	3137.35	thousand barrels per day	2012
Coal	126,720	thousand short tons	2012
LNG	0.03	trillion cubic feet	2012
Pipeline Gas	1.57	trillion cubic feet	2012
Petroleum Condensate	650,000	barrels per day	2014

2013 U.S. Coal Trade (million short tons)

U.S. exports are dispersed to various European and Asian countries



Source: EIA, Quarterly Coal Report

Issues Re Energy & Ports

- LNG proposed terminals
- LNG proposed import terminals in 2002 (48 proposed terminals)
- Reduction in oil imports- possible net exporter 2020-2030
- Will crude oil export prohibition be lifted?
- Condensate exports – continued/accelerated approvals?
- Refined Products- will margin between WTI & Brent continue?
- Coal
- United Nations Framework Convention on Climate Change (UNFCCC)
 - Conference of the Parties (COP 21) – Paris 2015
- OPEC Production Increase or Decrease – June 5, 2015 meeting
- Iran sanctions being lifted – 30 million barrels of crude in storage. production could increase 800,000 b/d
- Low oil prices – drop off in domestic drilling – rig count below 1,000

Gaze into the Future

- Offshore wind
- Robust trade- Free Trade Agreements – EU & Trans-Pacific Partnership
- Oil and natural gas storage
- Carbon dioxide imports
- Carbon dioxide offshore storage
- Methane Hydrates

Concluding Remarks

- Imports shrink
- Exports expand
- Electrification of ports
- Change has never been more rapid
- Shipping will attract attention of climate change concerns
- Chaos reigns



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