FORECAST OF TODAY’S ENERGY INDUSTRY

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Energy Projects Seminar
September 14, 2016
Vancouver, BC, Canada
US Energy Consumption

Source: EIA, Annual Energy Outlook 2016
Global Energy Consumption

Figure 1-5. World energy consumption by energy source, 1990-2040
quadrillion Btu
U.S. Net Fossil Fuel Imports

Source: EIA, Annual Energy Outlook 2016
U.S. Fossil Fuel Exports

U.S. Exports Mbbl/d

Source: U.S. Energy Information Administration, [https://www.eia.gov/dnav/pet/pet_move_exp_dc_NUS-Z00_mbblpd_a.htm](https://www.eia.gov/dnav/pet/pet_move_exp_dc_NUS-Z00_mbblpd_a.htm)
Figure 4-1. World coal consumption by region, 1980–2040

.quadrillion Btu

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<thead>
<tr>
<th>Year</th>
<th>World total</th>
<th>World total with U.S. CPP</th>
<th>Non-OECD</th>
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<th>OECD with U.S. CPP</th>
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Coal trade around the world

Source: Carbon Brief [https://www.carbonbrief.org/mapped-the-global-coal-trade]
Global Renewable Growth

Renewables share of power generation

- World
- China
- EU
- US

Levelized cost* of electricity in North America

- Onshore wind
- Utility-scale solar PV

* Excludes costs of grid integration

Low Oil Price Environment

U.S. Gasoline and Crude Oil Prices

(dollars per gallon)

Source: Short-Term Energy Outlook, August 2016

Crude oil price is composite refiner acquisition cost. Retail prices include state and federal taxes.
Gaze into the Future

• Offshore wind
• Robust trade
• Oil and natural gas storage
• Carbon dioxide imports
• Carbon dioxide offshore storage
• Methane Hydrates
Concluding Remarks

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