



ATLANTIC COUNCIL

IDEAS. INFLUENCE. IMPACT.



Overview of the Atlantic Council's Energy and Environment Program

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Atlantic Council of the United States

Supporting global efforts to attain energy security, with policies and resources that are sustainable, affordable and environmentally responsible

6 December 2012

2012 CO₂ Conference Week

Midland, Texas



James Winnefeld Atlantic Council Vice
Chairman Joint Chiefs of Staff



50th Anniversary Outstanding Achievement
Award - Prince Harry with Colin Powell and Sen.
Hagel

Atlantic Council of the United States

- Pre-eminent, non-partisan institution devoted to promoting transatlantic cooperation and leadership to address key global challenges
- Includes distinguished foreign policy leaders over 50-year history
- Three topical programs and six regional centers

Energy and Environment Program

- Engages in open, collegial and non-partisan dialogue with government, industry and civil society leaders to foster domestic and international understanding and cooperation
- Supports access to affordable energy to meet growing global population
- Advocates an “all of the above” approach to energy supplies
- Develops realistic assessments based on holistic investigation (e.g. technology, economics, industry, society, political institutions, etc.)



Current Focus Areas

- Carbon Capture, Utilization and Storage (CCUS)
- Changing US Electric Power Markets
- Transatlantic Cooperation on Implementing “All of the Above” Energy Strategy
- Energy-Water Challenges and Opportunities
- Unconventional Fossil Fuels: Best Practices and Responsible Development
- Climate Change Adaptation and Energy Systems
- Global Nuclear Initiative
- Eurasian Energy Futures Initiative

The Atlantic Council provides thought leadership and highlights strategic issues to increase visibility, engage key players, and help drive toward solutions

CCUS

- Expert seminars and Issue Brief series
- Dr. Edward Rubin, Carnegie Mellon University - *CO₂ Capture Technologies Deliver for EOR and Climate Change Mitigation and at What Cost?*
- Vello A. Kuuskraa, ARI and Michael Moore, North American Carbon Capture and Storage Association, and Blue Strategies – *How Far Can CO₂ Enhanced Oil Recovery Drive Carbon Capture, Utilization and Storage?*



CO₂-EOR Can Accelerate the Deployment of CO₂ Capture, Utilization and Storage (CCUS)

Prepared For:
The Atlantic Council's Energy and Environmental Program
How Far Can CO₂ Enhanced Oil Recovery Drive Carbon Capture, Utilization and Storage?

Prepared By:
Vello A. Kuuskraa, President
ADVANCED RESOURCES INTERNATIONAL, INC.
Arlington, VA

July 26, 2012
Washington, DC

Unconventional Resources • Enhanced Recovery • Carbon Sequestration



Advanced Resources
International, Inc.

CCUS, cont. – Issue Brief Series

- *US Policy Shift to Carbon Capture, Utilization, and Storage Driven by Carbon Dioxide–Enhanced Oil Recovery*, by Pamela Tomski, Vello Kuuskraa, and Michael Moore
- *The Business Case for Carbon Capture, Utilization, and Storage*, by Pamela Tomski
- *Key US Policy Proposals to Advance Carbon Dioxide–Enhanced Oil Recovery and Carbon Capture, Utilization, and Storage Deployment*, Upcoming
- *Key CCUS Developments: The Last 15 Years and Look Forward*, upcoming



CCUS, cont. – High-level Roundtables

- Atlantic Council & CCS Alliance co-hosted Carbon Sequestration Leadership Forum (CSLF) Financing Task Force –

Framing Advantages for CCUS: Lessons from First Movers

- Atlantic Council, TERI, Global CCS Institute, EUCERS

India's Clean Coal Future – showcased *U.S. – India Fossil Energy Cooperation and CCUS Developments*

- Various European events on CCUS and unconventional fossil fuels; continuing dialogues in Poland, June 2013



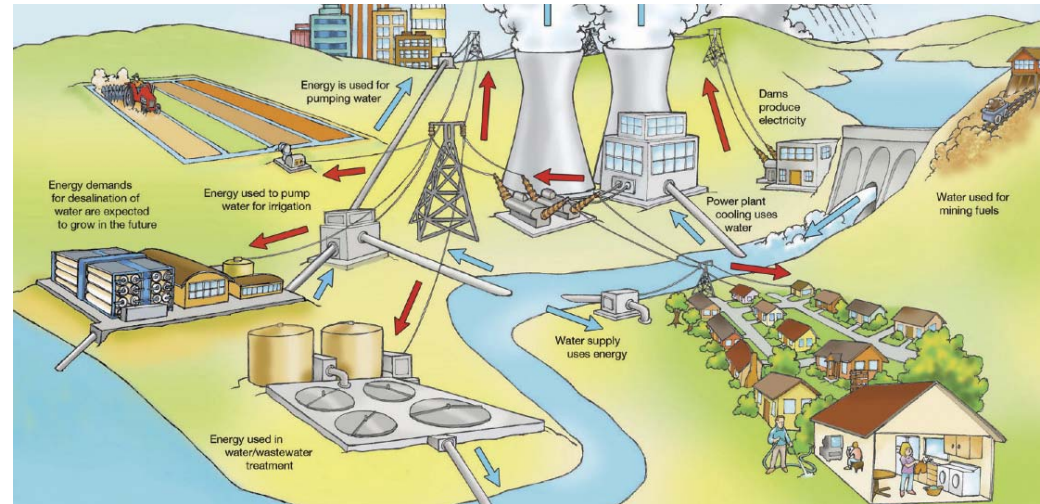
“All of the Above” Electric Power

- US Electricity Markets:
 - 2013 - set of regional and national discussions to address electric power demand and system modernization
 - need for a long-term, inclusive framework that addresses the portfolio of low carbon technologies, their integration issues, and the potential impact of shale gas developments
- Trans Atlantic Cooperation:
 - 2010-2012 - dialogues held in Prague, Warsaw and Budapest
 - 2013 – dialogues to continue in Paris, Brussels, and Wroclaw, Poland
 - Link Europe and US dialogues on realistic balanced energy policies
 - Partnering with European think tanks on energy policies for developing countries

Energy-Water Nexus (EWN)

Source: Southern Company

- Congressional and Executive briefings on EWN reports on 1) power, 2) fuels and 3) water sector issues
- Produced water (workshop / report)
- US and Indian stakeholders
- Transatlantic dialogue comparing EU and US approaches
- US-China dialogue with a focus on produced waters and Industrial, municipal nexus



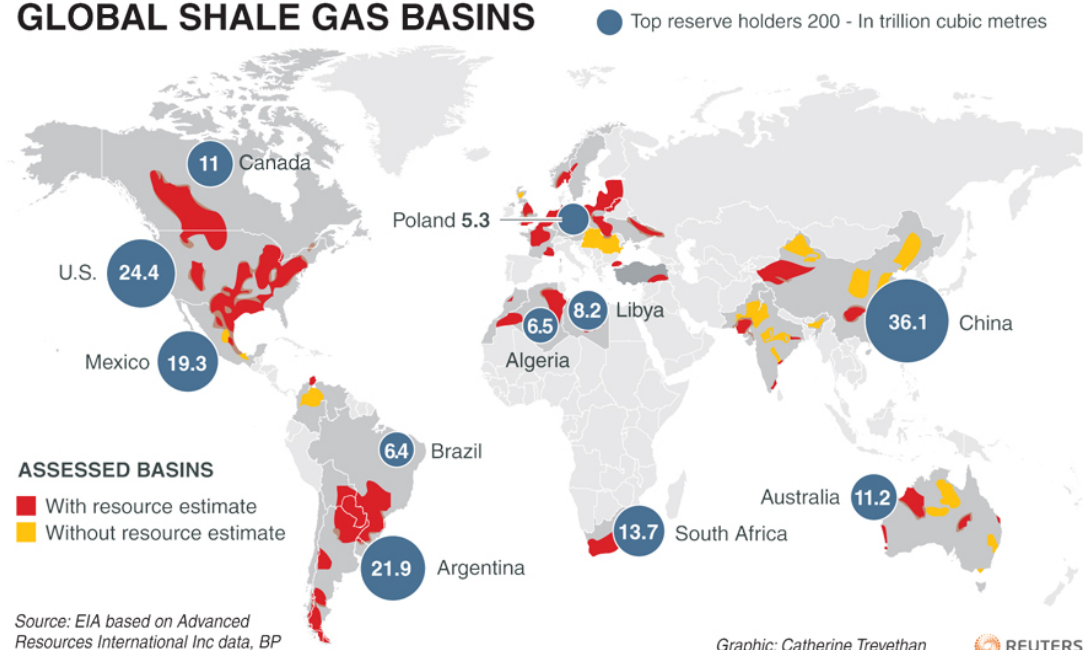
Hosted major US conferences:

- Impact of Municipal, Industrial, and Commercial Water Needs on the Energy Water Nexus, November 2012
- Fueling America and the Energy Water Nexus, June 2012
- Energy for Water and Water for Energy, November 2011

Unconventional Fossil Fuels

- Three major events in 2011 on environmental and regulatory challenges of unconventional developments in Europe (industry, regulators, EU Commission, officials from many European countries)
- In 2013, country-specific conferences in Romania, Ukraine and Western Europe
- Focus on industry best practices, regulatory issues and geo-political implications

GLOBAL SHALE GAS BASINS



Climate and Nuclear

Adapting to Climate Change: Energy Systems

- “Climate Change and Extreme Weather Vulnerability Assessment of the U.S. Energy Sector” - Workshop and report with National Renewable Energy Laboratory
- 2013 Congressional and legislative briefing
- 2013 Transatlantic conference

Global Nuclear Initiative

- Ensure the nuclear industry's growth, safety and security through global Partnerships
- Multiyear activity involving dialogues in regional markets (e.g. Middle East, Europe, South East Asia and North America)

Eurasian Energy Futures

- Systematic and comprehensive work as the premiere venue for policymakers on Eurasian energy.
- Atlantic Council Energy & Economic Summit in Istanbul, Turkey – November 2013
- The Southern Corridor and Beyond: Can Energy Resources Bring Security and Prosperity to a Volatile Region? - Caspian and Central Asian Energy Security
- LNG Markets and their Implications on Eurasian Energy Security



Thank you!

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