



NATIONAL COAL COUNCIL ~ FEBRUARY 2017

NCC 2017 SPRING MEETING MARCH 14-15 ~ OLD TOWN ALEXANDRIA, VA Program Speakers in the News

The 2017 Annual Spring Meeting of the National Coal Council will be hosted March 14-15 at the Sheraton Suites Old Town in historic Alexandria, Virginia on the banks of the Potomac River.

Learn more about our program speakers through some recent news items:



Andy Roberts, Research Dir. Global Thermal Markets,
Wood Mackenzie

"Opportunities for Coal in the Trump Administration"

<https://www.woodmac.com/blog/china-must-take-stronger-steps-to-shrink-its-coal-bubble/>



Jeff Keffer, CEO/Steve Nelson, COO
Longview Power LLC

"Longview Power Plant – State-of-the-Art Clean Coal Technology for Reliable, Low-Cost Electric Power"

<http://dailycaller.com/2017/01/22/coal-ceo-at-least-weve-got-a-shot-under-trump/>



Chip Bottone, President & CEO, **FuelCell Energy**

"Fuel Cell Carbon Capture Pilot Plant: ExxonMobil & FuelCell Energy Program at Southern Company's Barry Plant"

<http://fuelfix.com/blog/2016/10/27/exxon-mobil-partners-for-new-carbon-capture-pilot-project/>



David Denton, Sr. Director Business Development Energy, **RTI International**

"Advanced Technologies for CO2 Capture & Utilization: Power & Industrial Applications"

<https://www.rti.org/news/rti-international-successfully-completes-pre-commercial-testing-its-breakthrough-technology>

REGISTRATION IS NOW OPEN!

Meeting registration forms & hotel reservation details are at:

<http://www.nationalcoalcouncil.org/page-NCC-Events.html>

Please Please Please

Consider Sponsoring 2017 Spring Meeting

The 2017 Spring Annual Meeting will provide us with an opportunity to **welcome new appointees to the U.S. Department of Energy** and to acquaint them with our members and the activities/objectives of the NCC. We've already extended an invitation for new DOE appointees to join us and address the Council.

We'd like to host a GREAT event ~ you can help. Please consider joining our current sponsors ~ **ADA-ES, DOMINION ENERGY, HEADWATERS & SAVAGE COMPANIES** ~ for the NCC Spring 2017 meeting. We welcome sponsorship support from \$500-\$5,000 and we'll work with you to design something that provides the greatest visibility and benefit for your company. For information contact NCC Meetings Director Hiranthie Stanford at hstanford@NCC1.org.



BECOME A SPONSOR

NCC LEADERSHIP

Mike Durham, Chair

Principal, Soap Creek Energy

Greg Workman, Vice Chair

Director Fuels

Dominion Resources

Deck Slone, Coal Policy Chair

Sr. VP Strategy & Public Policy

Arch Coal

Bill Brownell, Esquire

Vice Chair Coal Policy

Chair, Hunton & Williams

Executive Committee

Shannon Banaga, Dir Fed Affairs

TECO Energy

Lisa J.N. Bradley, PhD, DABT

Vice President/Sr Toxicologist

Haley & Aldrich

Ted Doheny, President & CEO

Joy Global

George Duggan, VP Coal

BNSF Railway

Shelia Glesmann

SVP Enviro & External Affairs

ADA Carbon Solutions

Danny Gray

EVP Govt & Enviro Affairs

Charah Inc.

John Kennedy, VP & Gen Mgr

Dynegey

Todd Savage, EVP Group Leader

Savage Companies

Mike Sorensen, Sr. Mgr. Fuel

Tri-State G&T

Scott Teel, VP Fuel Services

Southern Company

Kemal Williamson

President Americas

Peabody Energy

Ex Officio

Joe Craft, III, President

Alliance Coal

John Eaves, President & CEO

Arch Coal

Joe Hopf

Jeff Wallace

NCC Staff/Support

Janet Gellici, NCC CEO

Hiranthie Stanford

Director Membership & Meetings

Fred Eames/Julia d'Hemecourt

NCC Legal Counsel

Hunton & Williams

NationalCoalCouncil.org

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Washington, DC 20004

(202) 756-4524



NCC Community News

NCC members are invited to submit news items regarding their companies and organizations to Janet Gellici at info@NCC1.org.

Anne Ellis LLC → Anne Ellis Global

www.anneellis.com

Anne Ellis LLC is now doing business as Anne Ellis Global. The company just announced a strategic partnership with Dr. Peter J. Carrato, a world-renowned expert in civil and structural engineering. Closer to home, Anne will be addressing the Tennessee Concrete Association 2017 Annual Convention on February 9th.

Caryl Pfeiffer, Louisville Gas & Electric Mill Creek Generating Station

<https://lge-ku.com/newsroom/articles/2017/01/09/mill-creek-station-wins-2016-project-year-award>

Congratulations to LG&E's Mill Creek Generating Station for winning Power Engineering's Air Compliance Project of the Year for undertaking one of the largest air quality control system installations in the U.S., upgrading AQCS equipment on all four of the plant's units.

Brian Kalk, EERC-Univ. of North Dakota Accepts New Position

www.undeerc.org

North Dakota Public Service Commissioner Brian Kalk has accepted the position of Director of Energy Systems Development with the Energy & Environmental Research Center (EERC) at the University of ND. Speaking of North Dakota ...

Bill Sawyer, ALLETE & John Harju, EERC

USEA Presentation on ND's Carbon Management Solutions

<https://www.usea.org/event/transforming-ND-carbon-solutions>

Bill spoke at NCC's Fall 2016 Annual Meeting on development of the Allam Cycle for coal and John heads up EERC's strategic partnership efforts.

Fred Palmer, Heartland Institute New Position

<https://www.heartland.org/news-opinion/news/media-advisory-fred-palmer-joins-the-heartland-institute-as-senior-fellow>

Fred Palmer, formerly with Peabody Energy and more recently with Total Spectrum, has joined the Heartland Institute as a Senior Fellow on Energy and Climate.

IN MEMORIAM

Harry Cook, Waterways Council, Inc.

Harry Cook, former Editor of *Capitol Currents*, former founding Trustee of the National Waterways Foundation and former Executive Director of the National Waterways Conference passed away on January 28th, 2017.

Harry's life and career were captured in a December 2015 article.

<http://waterwayscouncil.org/wp-content/uploads/2012/11/december-22-2015-Capitol-Currents.pdf>

COAL RESOURCES & NEWS

U.S. Department of Energy
www.energy.gov
Office of Fossil Energy

National Energy Technology
Laboratory
www.netl.doe.gov
Coal & Power Systems

Japanese Government Planning
to Build 45 New Coal Plants to
Diversify Supply
[ABC News 1-31-17](#)

Trump's Picks for TVA Board Could
Reshape Federal Agency
[Times Free Press 1-3-17](#)

Regulatory Reform, Coal Decline
and Trump: BNSF Prepares for
2017
[Rail Journal 1-17-17](#)

Dominion: Lack of transmission,
coal shutdowns bring blackouts
to Virginia peninsula
[Utility Dive 1-13-17](#)

Can Carbon Capture Technology
Prosper Under Trump?
[New York Times 1-2-17](#)

Environmentally Friendly
Extraction of Rare Earth Elements
from Coal Fly Ash
[Purdue 1-11-17](#)

In EPA rebuke, judge orders quick
evaluation on coal jobs
[San Francisco Chronicle 1-12-17](#)

Clean Energy Innovation:
Seeking a Path Forward Under
the Trump Administration
[Information Technology &
Innovation Foundation 12-13-16](#)

Vietnam Opens New Doors with
Push for Coal Energy
[Nikkei 1-20-17](#)

Let's think about a brighter future
for energy by capturing carbon
[Dallas News 1-25-17](#)

Elon Musk Has Trump's Ear, and
Wall Street Takes Note
[New York Times 1-26-17](#)

National Coal Council
NationalCoalCouncil.org

NCC Member Focus

Shannon Maher Banaga is a new member of the NCC 2017 Executive Committee. Shannon was appointed to serve on the National Coal Council in 2015 and has been an invaluable resource on federal energy policy. Shannon's legal and government affairs expertise are a tremendous asset for the NCC. Thank you for your service, Shannon!

Shannon Maher Bañaga joined TECO Energy as Director of Federal Affairs in December 2014. In this role, she oversees the operations of the company's federal government affairs strategy in Washington, D.C. Her areas of expertise include environmental and energy policy, regulatory matters involving federal environmental and energy agencies, legislative relations and more.

Immediately prior to joining TECO Energy, Shannon worked for the Public Service Enterprise Group as Senior Manager of Public Policy and Governmental Affairs, where she was responsible for advancing PSEG's environmental leadership and coordinating interaction with key Washington environmental stakeholders and agencies. Among her notable activities with PSEG, she testified before the Environmental Protection Agency and participated in high-level federal policy and administrative meetings on key environmental issues.

Preceding PSEG, Shannon was the Senior Energy Associate for Husch Blackwell LLP, where she represented energy companies and state commissions in complaints, protests and rulemaking proceedings before the Federal Energy Regulatory Commission and other federal agencies. She also prepared corporate compliance programs, conducted training for energy traders, negotiated settlements and defended natural gas marketing companies subject to FERC enforcement proceedings. Before private practice, Shannon was an enforcement attorney with FERC, where she investigated violations of the Federal Power Act, Natural Gas Act, Natural Gas Policy Act and the Commission's regulations.

Shannon earned her Bachelor of Science in Environmental Studies at Florida State University, after which she received her Master of Science in Environmental Law at Vermont Law School, followed by her Juris Doctor at the same school. She subsequently worked at the U.S. Department of Energy on environmental and nuclear matters; the Safe Energy Communication Council on energy efficiency initiatives; and Wilson & White, P.C. in Montpelier, Vermont as a legislative intern.

Shannon is a member of the State of Connecticut and the District of Columbia Bars. She has also served in various leadership positions with the Energy Bar Association and works with the Women's Council on Energy and the Environment.



SHANNON BANAGA DIRECTOR FEDERAL AFFAIRS TECO ENERGY INC.

[TECO Energy Inc.](#) is an energy-related holding company with regulated electric and gas utilities in Florida and New Mexico. [Tampa Electric](#) serves about 730,000 customers in West Central Florida; [Peoples Gas System](#) serves about 370,000 customers across Florida; and [New Mexico Gas Co.](#) serves about 520,000 customers across New Mexico.

Tampa Electric operates the Big Bend Power Station based in Tampa, FL, a coal-based facility with natural gas peaking capacity. The company also operates the Polk Power Station, the largest unit at which operates with coal-gasification technology.

TECO Energy is a subsidiary of Emera Inc., a geographically diverse energy and services company headquartered in Halifax, Nova Scotia, Canada. [Emera Inc.](#) invests in electricity generation, transmission and distribution, as well as gas transmission and utility energy services with a strategic focus on transformation from high carbon to low carbon energy sources. Emera has investments throughout North America and in four Caribbean countries.



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NCC ACTIVITIES & NEWS

A BUSY START TO THE NEW YEAR

2017

NCC leadership and staff have been off to a busy start in the new year. Here's highlights of our recent year-end 2016/new year 2017 activities.

- In mid-December, NCC submitted a memo to then President-elect Trump's Energy Transition Team outlining priority recommendations drawn from recent NCC reports. The memo highlighted immediate issues, such as preserving the existing coal fleet; near-term issues, such as jumpstarting new coal plants; and long-term initiatives, such as continued RDD&D support for CCUS and transformational technologies.
- NCC volunteers produced a summary of four NCC reports prepared for former Secretary of Energy Moniz. The summary includes key recommendations from those reports organized into focus areas of importance to the Trump Administration, including energy security/independence, infrastructure development, economic/job growth, balance of trade/export issues, and regulatory reform.
- NCC staff prepared a report summarizing input from more than 30 NCC members and DOE officials (current and past) regarding key message points, prospective report topics and other potential activities for NCC to undertake in 2017+.
- NCC staff compiled a list of potential report topics based on input from NCC members and DOE representatives, as well as from input garnered from a January meeting of the NCC Chair's Leadership Council (see page 4).
- NCC is forming a new Carbon Subcommittee which reports to the NCC Coal Policy Committee. Subcommittee members met in January and proposed prospective topics for future reports, as well as additional initiatives of interest to undertake through the Subcommittee. The group will meet again in March.



NCC SPEAKING ENGAGEMENTS

Upcoming presentations by NCC CEO Janet Gellici

- ~ **PRB Users Group/Electric Power Conference** – April 2017, Chicago
- ~ **Carbon Management Technology Conference** – July 2017, Houston



MORE NCC ACTIVITIES & NEWS

DYNEGY & EPRI JOIN NCC CHAIR'S LEADERSHIP COUNCIL

*please
join us*

The NCC **CHAIR'S LEADERSHIP COUNCIL (CLC)** welcomed two new members this past month ~ John Kennedy with Dynegy and Tom Alley with EPRI.

CLC is a coalition of coal industry leaders from varied disciplines drawn from the NCC membership. The CLC provides a forum for industry savvy, committed NCC members to provide strategic guidance to the Council and develop plans and programs in pursuit of NCC objectives.

CLC members are being called upon this year to help acquaint the Trump Administration and new DOE Secretary and staff with the activities and objectives of the Council and to set priorities for the Council's future reports for the new Secretary of Energy. Please join us in the important undertaking.

We are now welcoming memberships for the 2017 Chair's Leadership Council. If you would like additional information, please contact Janet Gellici at jgellici@NCC1.org.

Thank you to the following organization for their CLC 2017 membership!



ELECTRIC POWER
RESEARCH INSTITUTE



Dominion



TRI-STATE
Generation and Transmission
Association, Inc.



UNIVERSITY
OF WYOMING

JUST FOR FUN

Check out the Mercedes AA Class ~ the first luxury sedan fueled by 9,648 AA batteries.

<http://www.nbc.com/saturday-night-live/video/new-mercedes/3021121?snl=1>

News Worthy from the Department of Energy



DOE Offers Releases First-Ever State of the National Labs Report

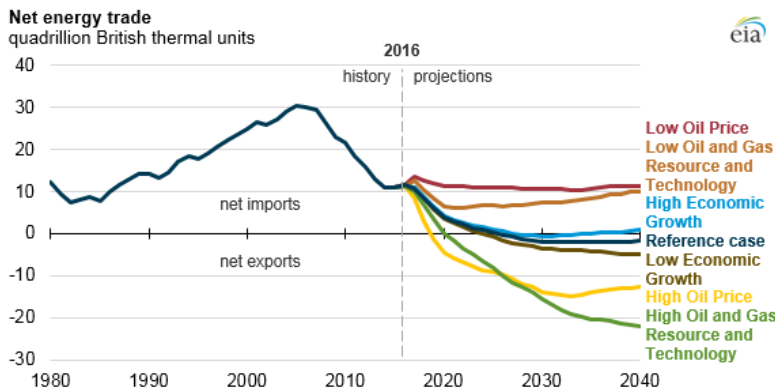
In mid-January, DOE released the inaugural State of the Department of Energy National Laboratories Report, highlighting the accomplishments and capabilities of the National Labs. The report evaluates improvements DOE has made in recent years in management and coordination with the labs, and charts a course for continued American leadership in science and technology.

Overall, the report concludes that the vitality of the DOE National Laboratories has improved over the past decade, in part due to increased investments made into the labs and from a focus on enhancing the relationship between the Laboratories and DOE.

<https://energy.gov/downloads/annual-report-state-doe-national-laboratories>

EIA Projects U.S. to be Net Energy Exporter in Most Cases

<http://www.eia.gov/todayinenergy/detail.php?id=29433>



The U.S. becomes a net energy exporter in most Annual Energy Outlook 2017 cases as petroleum liquid imports fall and natural gas exports rise. Exports are highest, and grow throughout the projection period, in the High Oil and Gas Resource and Technology case because favorable geology and technological developments result in the production of oil and natural gas at lower costs.

U.S. Energy and Employment Report

<https://www.energy.gov/sites/prod/files/2016/03/f30/U.S.%20Energy%20and%20Employment%20Report.pdf>

The U.S. Energy and Employment Report (USEER) is DOE's first annual analysis of how changes in America's energy profile are affecting national employment in multiple energy sectors. By using a combination of existing energy employment data and a new survey of energy sector employers, the inaugural USEER provides a broad view of the national current energy employment landscape.



According to the report, coal electric generation employs a total of 86,035 workers, or 46% of all fossil fuel generation employees. In addition to the electric generation segment, coal fuels support another 74,084 jobs, or about 7% of the nationwide fuels workforce.

Coal mining and support employment declined by 39% from March 2009 (93,439) to March 2016 (57,325) according to the Bureau of Labor Statistics, with a 24% decline in the last year alone.

More News Worthy from the Department of Energy

Energy Innovation Portfolio Plan FY 2018-FY 2022

https://energy.gov/sites/prod/files/2017/01/f34/DOE%20Energy%20Innovation%20Portfolio%20Plan%20FY%202018-22_0.pdf

Global energy markets are transforming. Economies that are based on efficient, abundant, cost-effective and clean energy supplies will lead international economic competition. Because of the United States' longstanding commitment to technology innovation, it is well positioned to lead energy innovation and capture the economic and environmental benefits.

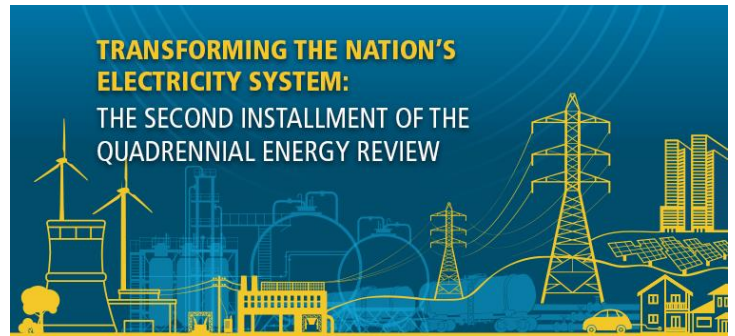
DOE conducted a strategic review of its science and energy technology R&D programs over the second half of 2016, assessing the Department's investment portfolio and identifying the future portfolio of investments necessary to ensure U.S. leadership in innovating for a global clean energy future. The report outlines a plan to double Federal investments in DOE's science and energy technology R&D programs.

Quadrennial Energy Review Second Installment

<https://energy.gov/epsa/quadrennial-energy-review-second-installment>

On January 6th, 2017, DOE released the second installment of the Quadrennial Energy Review. QER 1.2 finds the electricity system is a critical and essential national asset and that it is a strategic imperative to protect and enhance the value of the system through modernization and transformation.

QER 1.2 analyzes trends and issues confronting the nation's electricity sector out to 2040, examining the entire electricity system from generation to end use and within the context of three overarching national goals: 1) enhance economic competitiveness, 2) promote environmental responsibility and 3) provide for the nation's security.



The National Coal Council submitted stakeholder comments, which are included in the document ~

https://epsa.energy.gov/qer-comments/sites/default/files/final-upload/2016-07-05_1195_2016-06-30_956_2016-06-30_921_national_coal_council_qer_1.2_comments_final_redacted.pdf

A Fond Farewell to Secretary Moniz

The National Coal Council extends its best wishes to departing Energy Secretary Ernest Moniz with thanks for his support and guidance in working with NCC since the spring of 2013.



NCC was pleased to have prepared four reports at the Secretary's request during his tenure, including The Value of the Existing Coal Fleet (May 2014), Fossil Forward: Bringing Scale & Speed to CCS Deployment (Jan. 2015), Leveling the Playing Field: Policy Parity for CCS Technologies (Nov. 2015) and CO₂ Building Blocks: Assessing CO₂ Utilization Options (Aug. 2015).

Secretary Moniz prepared a Cabinet Exit Memo in January providing an overview of DOE accomplishments under his leadership and highlighting future action item recommendations.

<https://www.energy.gov/sites/prod/files/2017/01/f34/Department%20of%20Energy%20Cabinet%20Exit%20Memo.pdf>

WHO KNEW?*



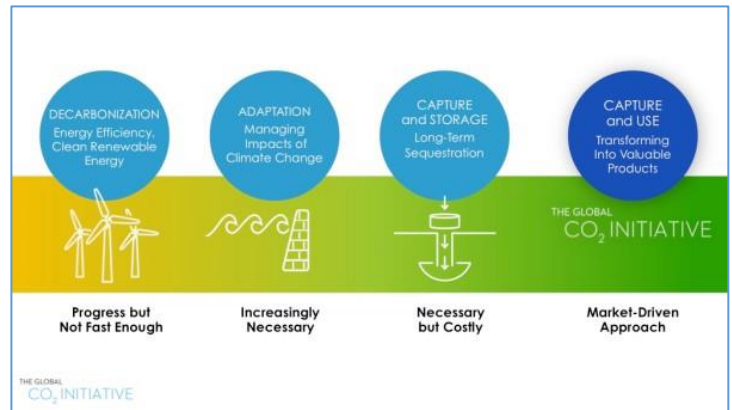
The Global CO₂ Initiative <https://www.globalco2initiative.org/>

The Global CO₂ Initiative is taking on the grand challenge of the planet by developing innovative approaches to transform CO₂ into commercial products with sustained climatological benefits. The organization's goal is to capture 10% of annual global CO₂ emissions and transform them into valuable products.

The Global CO₂ Initiative notes four approaches to addressing the rise in CO₂: adapting to the impacts of climate change, decarbonizing by increasing energy efficiency and clean energy production, carbon capture and storage, and carbon capture and use. The Initiative focuses on the latter which is designed to reduce CO₂ concentrations in the atmosphere while creating a new market for CO₂-based products.

The Global CO₂ Initiative funds the development and commercialization of technologies to create CO₂ based products. To accomplish this, the Global CO₂ Initiative is composed of two platforms.

CO₂ Sciences is the Global CO₂ Initiative's nonprofit platform that funds research and development in carbon capture and utilization. Using philanthropic contributions, the team identifies technologies and uses a robust assessment toolkit to vet and fund the most promising research.



The Global CO₂ Initiative's for-profit platform makes investments in companies that are using CO₂ to make products for commercial and consumer markets. Such investments accelerate the widespread adoption of CO₂ based products for broad climate benefit. Using this platform, the Initiative makes impactful investments that have a meaningful climate benefit and yield financial returns.



***A regularly featured column on industry, university and government initiatives in support of advanced coal technology development and commercialization.**