Energy Council Quarterly

WINTER 2021

The Energy Council Welcomed Back to Louisiana for the 2021 Global Energy and Environmental Issues Conference

The Energy Council's Global Energy and Environmental Issues conference was held December 9-12 in New Orleans, Louisiana. Arkansas Representative Rick Beck, Chairman of The Energy Council, presided. He was assisted in his leadership duties by Alaska Senator Click Bishop, Chairman of the Center for Legislative Energy and Environmental Research (CLEER), and the Vice President for the Global Conference, Louisiana Representative Francis Thompson.

To kick off the meeting, Representative Thompson introduced the Speaker of the Louisiana House of Representatives, the honorable Clay Schexnayder. Speaker Schexnayder warmly welcomed attendees and guests to his state.

Delivering the Opening Address was Louisiana Governor John Bel Edwards. "Louisiana is in a fairly unique position for several reasons. We are a traditional energy state, one of the original Energy Council states, and we are on the front lines of climate change," Governor Edwards said. According to the Governor, since 1930, Louisiana has lost two thousand square miles of land along its coast. Consequently, the perfect trifecta continues to hit the state: subsidence,



Louisiana Governor John Bel Edwards (second from right) delivered the Opening Address at The Energy Council's 2021 Global Energy and Environmental Issues Conference. Welcoming attendees to the state of Louisiana was Speaker of the House, Clay Schexnayder (left); CLEER Chairman, Alaska Senator Click Bishop (second from left); The Energy Council Chairman, Arkansas Representative Rick Beck (center); and Vice President for the Global Meeting, Louisiana Representative Francis Thompson (right).



The Energy Council Quarterly is the official publication of the Energy Council, a legislative organization comprised of 14 states and two international affiliates, drawn from the major energy producing regions of the United States and Canada. The Energy Council provides a forum for discussing government policies regarding energy and the environment.

For information regarding the *Energy Council Quarterly* or the Energy Council, please contact:

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Tell us what you think!

We welcome your suggestions and feedback. Please email erichards@theenergycouncil.org



The Energy Council to Meet in Overland Park, Kansas

The Energy Council's 2022 State and Provincial Trends in Energy and the Environment Conference is scheduled to be held in Overland Park, Kansas June 9-12. Presiding over the conference is Chairman of the Energy Council, Arkansas Representative Rick Beck and Alaska Senator Click Bishop, Chairman of the Center for Legislative Energy and Environmental Research (CLEER).

The meeting will begin on Thursday evening, June 9, with a Welcome Reception and will conclude on Sunday, June 12 with The Energy Council and CLEER Business Sessions and CLEER Program Advisory Board Meeting.

Among the topics expected to be covered at the 2022 State and Provincial Trends in Energy Conference are:

- Energy Parks
- Cybersecurity Challenges and Solutions
- Wind Farm Risks and Rewards
- Successes and Challenges in Reducing Emissions
- Transboundary Pipeline Projects
- A Changing Energy Workforce
- The Future of Energy
- Federal Renewable Fuel Standard
- Conservation Easements
- UAB Seminar: Carbon Management and Energy Transition Projectss

More information is available at www.theenergycouncil.org.

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Alberta's Minister of Energy, the Honourable Sonya Savage (center) with Alberta Member of the Legislative Assembly, Tracy Allard (left) and Consul General of Canada for Arkansas, Louisiana, New Mexico, Texas and Oklahoma, Dr. Rachel McCormick (right).

sea-level rise and coastal erosion, the Governor continued.

Considering that Louisiana is a major energy-producing state, the Governor explained the need for addressing climate change and extreme weather, and the necessity of adapting to an economy that runs on fewer fossil fuels over time. It will be a transition, the Governor noted. "We must transition," Governor Edwards said, "by diversifying our economy and our approach. Our goal in Louisiana is to use the time we have to embrace the transition." The Governor added, when the world market turns, if you don't move with it, you will be left behind.

The Governor told attendees, we are all a part of the global economy, and you have got to produce what is in demand. If someone is not able to produce what is in demand, they will not be able to sell it. If they can't sell it, they are not going to be able to create jobs. The Governor added that Louisiana has a large oil and

gas petrochemical manufacturing presence, and needs to address the demands to mitigate green-house gas emissions and adapt to the dangers of extreme weather at the same time. Combining adaptation and mitigation, Louisiana will have a more resilient economy, Governor Edwards concluded.

The general session opened with an address entitled "Emerging Energies" by Ms. Susan Rudolph, Director, Business Development for Emerging Energy at Phillips 66. Ms. Rudolph gave attendees an update on the role that Phillips 66 is playing in the battery supply chain. Growing the U.S. battery supply chain is critically important to Phillips 66, according to Ms. Rudolph, and Phillips 66's efforts to develop high-performing battery materials from low-value refinery streams providing are solutions for the electrification revolution. Ms. Rudolph explained that the company's research program is aimed at improving the cost and performance of today's lithium-ion batteries and developing materials for next generation batteries to provide higher capacity, longer cycle life, and reliable sourcing of lower cost materials.

Dr. Holly Krutka, Executive Director for the School of Energy Resources at the University of Wyoming and Wyoming's CLEER University Advisory Board representative, presented on the topic of "CO, Storage Risks and Solutions." She explained that carbon capture use and storage has been under development for decades. Today, Dr. Krutka noted, the technology is nearing commercialdeployment, aided by federal tax credits. CO₃ capture is well understood and the costs can be expected to decrease over time. However, some perceived and real risks are associated with CO₂ storage, which will remain until the technology is more broadly demonstrated.

Friday morning's general session panelists discussed "Nuclear Power." First to speak was Dr. Richard Laboratory Research Boardman, Manager in the Fuel Cell & Hydrogen Technology Office at the Idaho National Laboratory. According to Dr. Boardman, nuclear energy is a diamond in the rough because it is clean, cost-competitive, concentrated, constant, and a convenient energy source. Dr. Boardman noted that the U.S. can establish or re-establish U.S. prominence in manufacturing clean energy products as a result of nuclear power plants producing the least expensive thermal energy today that meet low-carbon standards. In his conclusion, Dr. Boardman provided some leading examples of nuclearsupported industries that included

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In keeping with the theme of The Energy Council's 2021 Global Energy and Environmental Issues Conference, Alberta's Minister of Energy, the Honourable Sonya Savage (center, left) spoke at Saturday's breakfast about the partnership between the United States and Canada. She was joined on the dais by Energy Council Chairman, Arkansas Representative Rick Beck (left); Vice President for the Global Meeting, Louisiana Representative Francis Thompson (center, right); and CLEER Chairman, Alaska Senator Click Bishop (right).

hydrogen, transportation fuels, iron/steel, and polymers/plastics.

The second panelist was Ms. Marilyn Kray, Vice President of Strategy and Development at Exelon Nuclear. Ms. Kray explained that the power grid and the associated generating assets are undergoing a transition. Additionally, utilities and stakeholders are viewing the existing fleet of nuclear reactors through a new lens in light of the increasing demand for reliable and carbon-free generation. operators of reactors are adapting by engaging in load following as well as exploring hydrogen generation and other opportunities. Moreover, the changing view of nuclear power has sparked extensive activity in the development of new designs for the

next generation of small modular reactors and other advanced reactors, Ms. Kray concluded.

Mr. Christopher Smith, Senior Vice President of Government and Public Affairs at Cheniere Energy, spoke next on the topic of "LNG Markets." Mr. Smith reported the Sabine Pass Liquefaction Plant has reliably and safely produced more than 1,000 cargoes since 2016, setting a new standard of excellence in the LNG field. These cargoes have powered factories and homes around the world.

Mr. Smith also explained that the LNG that Cheniere produces is shipped all over the world, turned back into natural gas, and then transported via pipeline to homes and businesses

and used as an energy source that is essential for heating, cooking on stoves and other industrial uses. When LNG is converted back to natural gas, it can be used instead of coal, which reduces the amount of pollution traditionally produced from burning fossil fuels, like sulfur dioxide, and particulate matter that enters the air we breathe. And compared to coal, natural gas produces significantly fewer carbon emissions.

The topic of "Resiliency" was addressed by Mr. Scott Aaronson, Executive Director of Security Business and Continuity at Edison Electric Institute. He noted that the energy grid is critical to national security and to the life and safety of customers and communities across America. Mr. Aaronson explained that electric power reliability is the ability to keep the lights on in normal conditions. Resilience is the ability to operate in abnormal conditions such as fire, storms, pandemics, cyberattacks and more. For electric companies, maintaining a high level of reliability requires constant commitment.

Protecting the energy grid is the electric power industry's priority, Mr. Aaronson said, electric companies work every day to improve grid security, reliability, and resiliency. Aaronson explained that electric companies' investments in smarter energy infrastructure are benefiting customers by enabling companies to respond and recover faster from outages caused by severe weather, and that the industry's preparations to respond to malicious attacks parallel its planning for natural disasters. "We can't protect every asset against every threat all the time, so we look at threats to our most critical infrastructure holistically

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through an all-hazards approach," Mr. Aaronson said. "This is about the life, health, and safety of our customers, and about national and economic security. Protecting this infrastructure is our obligation, as the owners and operators of critical infrastructure, for the benefit of the United States, and it's something we take very seriously."

The final presenter for Friday's general session was U.S. Senator John Kennedy of Louisiana. "America has the strongest, most complex, and greatest economy in all of human history," Senator Kennedy said. "It was built by ordinary people doing extraordinary things." He told attendees, eighty percent of the U.S. economy comes from fossil fuels, and while there is a debate about reducing our reliance on fossil fuels, he feels there is a place for other forms of energy, as long as each can stand on its own. Senator Kennedy believes we should pick the forms of energy that are most efficient and can get the job done at the best price, while respecting the environment. He noted that we all should care about the environment, clean air and water.

Saturday morning's Breakfast Presentation was given by the Honourable Sonya Savage, Alberta's Minister of Energy. As a trusted supplier of responsible energy within North America's integrated energy system, Minister Savage said, Alberta will continue to develop ethically environmentally responsible energy for the mutual benefit of North Americans. Equally important is the development of large-scale international energy infrastructure projects and shared coordination of policy measures to adapt to the energy future. This will allow Alberta to be a key partner in the North American energy sector. As energy demand is expected to grow, Alberta continues to take significant emission



Mr. Chris Smith, Senior Vice President for Governmental Affairs at Cheniere Energy, provided an update on "LNG Markets" at the 2021 Global Energy and Environmental Issues Conference.

reduction actions to help achieve North America's environmental goals, Minister Savage concluded.

"Offshore Wind Projects" was covered by Mr. Anthony Bodin, Director of Business Development for GNO, Inc. According to Mr. Bodin, Louisiana is primed for growth in the wind power industry. Mr. Bodin noted that the largest turbines in the world are being developed in New Orleans East, offshore wind farms in the Gulf of Mexico are likely to be developed in the next few years, and Louisiana's experience as an energy state "will help lead the way for new opportunities in Louisiana." GNO, Inc. has begun a wind power initiative to tap into a potential growth industry as a result of these developments. Dubbed the GNOwind Alliance, the effort aims to transform Louisiana into an offshore wind manufacturing hub and perpetuate the deployment of deep-water wind farms in the Gulf.

Everyone sees this as an opportunity that plays to Louisiana's strength as an energy state," Mr. Bodin said. With this in mind, Mr. Bodin noted that many prominent energy companies are already branching out into wind energy, including traditional Louisiana oil and gas companies. In summary, he emphasized Louisiana is number four for potential in wind energy thanks to its relatively shallow continental shelf and prevailing offshore winds.

Mr. Randy Eminger, Executive Director for the Energy Policy Network briefed attendees on the topic of "Coal Market

New Member Joins The Energy Council's Executive Committee

ALBERTA MLA Tracy Allard



Tracy Allard

Member of the
Legislative Assembly of Alberta

Tracy Allard was elected to the Legislative Assembly of Alberta, representing the constituency of Grande Prairie, on April 16, 2019. Mrs. Allard is deputy chair of the Select Special Committee to Examine Safe Supply. She also serves on the Special Standing Committee on Members' Services, the Select Special Information and Privacy Commissioner Search Committee and the following standing committees of the Legislative Assembly:

- Alberta Heritage Savings Trust Fund
- Legislative Offices
- Alberta's Economic Future

She and her husband, Serge, have three children, and they make their home in Grande Prairie, Alberta.

New Member joins CLEER Board of Directors

WEST VIRGINIA Delegate Mark Zatezalo West Virginia House of Delegates

Delegate Mark Zatezalo was elected to the West Virginia House of Delegates in 2014; 2016; and, 2020. He serves as Chair of the Workforce Development Committee. He serves as a Member on the Energy and Manufacturing; Judiciary; and Tourism and Economic Diversification Select Committees.

Delegate Zatezalo, and his wife, Martha, have two daughters.



Mark Zatezalo West Virginia House of Delegates

CLEER Welcomes New University Advisory Board Memebers

The University of Alabama

The University of Alabama is steeped in tradition. Founded in 1831, it is the state's oldest and largest public university. It carries a proud heritage, built on the foundations of academic excellence, student and faculty accomplishment, athletic achievement and alumni pride. The University of Alabama is among the fastest growing

flagships in the nation.



Allen S. Parrish
Executive Director
Alabama Transportation
Institute

The mission of the Alabama Transportation Institute The University of Alabama is to facilitate and reflect world-class leadership in the interdisciplinary transportation research that serves the state of Alabama and beyond. ATI will support collaborations centered primarily around these emergent themes: Digital Transportation / Connected Vehicles and Infrastructure / Transportation Safety, Security, Accessibility Electric Vehicles and Fuel Economy /

Sustainable Transportation Infrastructure.

Dr. Parrish is Executive Director of the Alabama Transportation Institute and Professor of Computer Science at The University of Alabama. Previously, Dr. Parrish was Associate Vice President for Research and Professor of Computer Science and Engineering at Mississippi State University, and Professor of Cyber Science and Founding Chair of the Department of Cyber Science at The United States Naval Academy, where he helped to start the cyber operations program. During his tenure at the Naval Academy, the program became one of the first four ABET accredited cybersecurity programs in the country and grew to be one of the largest programs at the academy. Dr. Parrish has published in refereed journals and conferences in areas as diverse as data science, software engineering, transportation safety and technology education.

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The University of Alberta

The University of Alberta's Natural Sciences and Engineering Research Council of Canada (NSERC) was established in 1978. The Industrial Research Chair (IRC) in Energy and Environmental Systems Engineering is aimed at providing university-based research.



Amit Kumar, Ph.D. Professor

The production, conversion, and use of energy, directly and indirectly, have environmental impacts. In recent years, the increase in atmospheric concentrations of greenhouse gases (GHGs) has emerged as one of the most important environmental issues. Energy production, conversion, and use are also associated with fresh water consumption. As energy demand increases, water requirements to sustain this demand also increase. Another key interaction the energy sector has with the

environment is disturbances in land use patterns. Hence, energy production has a close nexus with air emissions (GHGs), water use, and land use changes. Canada's large energy sector has to deal with these issues. These issues are critical for Alberta because of the intensity of activities in that province. This Chair program assesses water and land use footprints in these areas.

Dr. Kumar is the Associate Industrial Research Chair in Energy and Environmental Systems Engineering under the National Sciences and Engineering Research Council of Canada (NSERC)/Cenovus/Alberta Innovates. He is a distinguished scholar who co-leads the Future Energy Systems initiative at the University of Alberta. Dr. Kumar's research focuses on integrated energy and environmental modelling, life cycle assessment and techno-economic assessment of conventional and non-conventional energy systems.

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Challenges and Possible Impacts on Electricity." Mr. Eminger explained that despite the retirement of over 10 GW of coal capacity in 2020, the amount of coal burned through 7 months of 2021 is 26 percent (60 million tons) higher than in 2020. In the West, low hydro generation and limited natural gas generation amid higher natural gas prices provided significant upside for coal generation. In the East, increased electricity demand and limited natural gas generation amid higher natural gas prices provided significant upside for coal generation. At the same time, while reduced global associated gas production from oil wells limited global natural gas supply, global natural gas demand rebounded as major economies return to pre-COVID output levels. With demand returning and supply limited, natural gas prices across the world shot up to near-term record highs, Mr. Eminger noted. Pulled up by international coal prices and increased domestic power burn, domestic coal prices over the last three months have also rallied to near-term record highs. Short-term coal supply is limited due to the constrained labor market and coal supply chain conditions, supporting higher coal prices.

In his closing, Mr. Eminger stated that while the overall U.S. labor market slowly returns to pre-COVID levels, the U.S. coal supply chain remains well below pre-COVID staffing levels despite improved market conditions across all of its major demand sectors (domestic power, domestic met, and exports), and major U.S. railroads fail to return to pre-COVID shipment levels mainly due to labor shortages.

"Utilizing Carbon Emissions" was the topic presented by Mr. Brock Forrest, Chief Technology Officer at Net



United States Senator John Kennedy of Louisiana closed out the Friday afternoon general session at the 2021 Global Energy and Environmental Issues Conference.

Power. Mr. Forrest explained that the mission of NET Power is to provide advanced clean energy to consumers worldwide by generating lower-cost power with zero emissions. NET Power's technology converts natural and renewable gas into zero-emissions power. The cycle doesn't just reduce the world's carbon footprint; it also lowers the price of energy.

Mr. Forrest illustrated the four steps to advanced clean energy and how Net Power technology works. It burns natural gas with pure oxygen. The resulting CO2 is recycled through the combustor, turbine, heat exchanger, and compressor, creating lowercost power with zero emissions. Captured CO2 is pipeline ready and can either be cheaply sequestered or sold to industries such as the medical, agricultural, and industrial sectors. In summary, NET Power's breakthrough technology converts natural and renewable gas into zero-emissions power, and the cycle doesn't just reduce the world's carbon footprint; it also lowers the price of energy.

"Energy Exports," was the topic of a panel discussion given by Dr. Rachel McCormick, Consul General of Canada for Arkansas, Louisiana, New Mexico, Texas and Oklahoma and Mr. Jason French, Principal at French Strategic Partners.

McCormick opened Dr. discussion by explaining that Canada is the largest supplier of all forms of energy to the United States. Given this point, as U.S. and Canadian crude oil production has risen in the last decade, the U.S. has become less dependent on OPEC. Notably, Dr. McCormick said, Canada supplied 3.6 million barrels of oil per day to the U.S. Electricity and natural gas also flow both ways across the border, adding to security of supply to both nations. Canada is also the only private sector supplier of uranium to the United States, she added.

Mr. French spoke next and stated that a decade ago, exporting America's oil and natural gas was a controversial

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idea. Today, however, America is one of the largest exporters of natural gas, oil and petroleum products. Mr. French added that global turmoil and rising energy prices have led to a reemergence of anti-export sentiments among some U.S. policy makers, and the anti-export rhetoric could prove far more consequential than that of a decade ago because American energy exports are now an important source of investment and employment in the U.S. as well as a key resource for global energy markets and global efforts to address climate change.

He explained that the bi-partisan infrastructure bill in large measure funds initiative that were authorized under the previous administration. The last bill that was signed included energy provisions from a republican majority, but the provisions were not funded. The current infrastructure bill funds the programs, Senator Cassidy emphasized. The Senator feels that so much of the problem in our energy policy has been the uncertainty of one executive order replacing another, but the current bill is bi-partisan legislation spanning two Congresses with two different parties holding the



United States Senator Bill Cassidy of Louisiana discussed Federal Energy Policy concerns at the 2021 Global Energy and Environmental Issues Conference. Looking on were The Energy Council Chairman, Arkansas Representative Rick Beck (seated, center) and the Vice President of the 2021 Global Conference, Louisiana Representative Francis Thompson.

The Honorable Bill Cassidy, United States Senator from Louisiana, led a session on "Federal Energy Policy" to close the general session. Senator Cassidy gave attendees a report on the bi-partisan infrastructure bill signed into law in November. He said that the bill is a bridge between old fossil and new fossil; between the republican and democratic parties; and between our past into our future.

majority and the presidency, so this is policy you can bank on, he said.

Dr. David Dismukes, Executive Director and Director of Policy Analysis at the Center for Energy Studies at Louisiana State University and Louisiana's CLEER University Advisory Board (UAB) representative, presented the topic "Industrial CCUS and Hydrogen Opportunities," at the

December University Advisory Board Seminar. According to Dr. Dismukes, industrial decarbonization will be key in meeting domestic and global carbon reduction plans. Additionally, the two key components of industrial decarbonization are CCUS and blue hydrogen. Each is unique and faces challenges but will be important. Dr. Dismukes explained industrial carbon emissions are high in energy producing states, particularly those along the Gulf Coast. These industries, however, are important components of many regional economies, and their loss could be devastating. Dr. Dismukes noted that industrial decarbonization will be important over the next several years in order to meet states' clean energy and climate goals. Furthermore, industrial decarbonization will be important for future industrial development since, at the margin, a good share of this development is tied to international trade. In his conclusion, Dr. Dismukes stated that CCUS is a critical component of industrial decarbonization and is also a critical component of managing the negative impacts of the clean energy/climate transition.

Sunday morning concluded with The Energy Council and CLEER Business meetings. The CLEER Program Advisory Board Planning Session also gathered input for the 2022 State and Provincial Trends in Energy and the Environment conference, which is scheduled to be held June 9-11 in Overland Park, Kansas.

OF SPECIAL INTEREST

A big thank you and our best wishes to Jane Taylor! Jane Taylor, The Energy Council's long-time Financial Manager, will retire March 31. Jane joined the Council in 2002 and has been an esteemed member of The Energy Council's staff since that time. We hope you will join us in wishing Jane well as she closes this chapter and starts a new chapter in her life!

SAVE THE DATES

THE ENERGY COUNCIL'S 2022 CONFERENCE SCHEDULE

State and Provincial Trends in Energy and the Environment Conference

June 9-12 • Overland Park, Kansas

Annual Meeting

September 15-18 • San Antonio, Texas

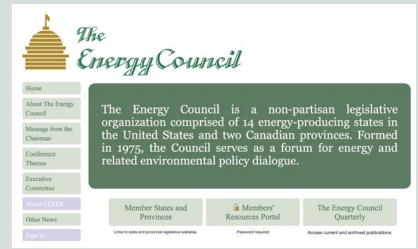
Global Energy and Environmental Issues Conference

December 8-11 • Banff, Alberta, CANADA

Have you visited The Energy Council's website? Don't have an account?

The Energy Council's website is www. theenergycouncil.org. You can gain access to the password protected portion of the website by clicking the button for the "Members' Resources Portal" at the bottom of the Home page. If you have forgotten your password (and who hasn't?) simply click on the same button and then click the "forgot password?" link.

On the password protected portion of the website, you can access the conference schedule, upcoming meeting agenda and conference registration link. Recent copies of The Energy Council Quarterly newsletter are available for download.



Your input and suggestions regarding the Council's website are welcome and the staff looks forward to hearing from you!

The Energy Council's 2021 Global Energy and Environmental Issues Conference

December 9-12, 2021

New Orleans, Louisiana

Welcome Remarks and Opening Address

The Honorable Rick Beck Arkansas House of Representatives and Chairman, The Energy Council

The Honorable Click Bishop Alaska Senate and Chairman, CLEER

The Honorable Francis Thompson Louisiana House of Representatives and Vice President, Global Energy and Environmental Issues Conference

The Honorable Clay Schexnayder Speaker of the House State of Louisiana

Opening Address

The Honorable John Bel Edwards Governor State of Louisiana

Emerging Energies

Ms. Susan Rudolph Director, Business Development for Emerging Energy Phillips 66

CO2 Storage Risks and Solutions

Dr. Holly Krutka Executive Director School of Energy Resources, University of Wyoming

Nuclear Power

Dr. Richard Boardman Laboratory Research Manager, Fuel Cell & Hydrogen Technology Office Idaho National Laboratory

Ms. Marilyn Kray Vice President of Strategy and Development Exelon Nuclear

LNG Markets

Mr. Christopher Smith Senior Vice President, Government and Public Affairs Cheniere Energy

Resiliency

Mr. Scott Aaronson
Executive Director Security
Business and Continuity
Edison Electric Institute

A Conversation with Senator John Kennedy

The Honorable John Kennedy United States Senator Louisiana

Breakfast Presentation

The Honourable Sonya Savage Minister of Energy Alberta, Canada

Offshore Wind Projects

Mr. Anthony Bodin Director of Business Development GNO, Inc.

Coal Market Challenges and Possible Impacts on Electricity

Mr. Randy Eminger Executive Director Energy Policy Network

Utilizing Carbon Emissions

Mr. Brock Forrest Chief Technology Officer NetPower

Energy Exports

Dr. Rachel McCormick Consul General of Canada for Arkansas, Louisiana, New Mexico, Texas, Oklahoma

Mr. Jason French Principal French Strategic Partners

Federal Energy Policy Q&A

The Honorable Bill Cassidy United States Senator Louisiana

UAB Seminar: Industrial CCUS and Hydrogen Opportunities

Dr. David Dismukes Professor, Executive Director and Director of Policy Analysis Center for Energy Studies Louisiana State University

Working Breakfast: The Energy Council and CLEER Business Sessions and CLEER Program Advisory Board Meeting