

THE Energy Council Quarterly

SUMMER

2021

The Energy Council returns to the “Land of Enchantment” for the 2021 State and Provincial Trends in Energy and the Environment Conference

The Energy Council’s 2021 State and Provincial Trends in Energy and the Environment Conference took place in Santa Fe, New Mexico on June 17 - 20. The conference began with a Welcome Reception on Thursday, June 17.

Alabama Senator Gerald Allen presided over the meeting as Chairman of The Energy Council; Colorado Senator Chris Hansen, Chairman of the Center for Legislative Energy and Environmental Research (CLEER) and New Mexico Senator Steve Neville, Vice President for the State and Provincial Trends in Energy and the Environment Conference assisted with leadership duties.

U.S. Congresswoman Yvette Herrell of New Mexico took an opportunity to welcome attendees to her home state of New Mexico at the Opening Breakfast. Born and raised in New Mexico, Representative Herrell represents the state’s



Alabama Senator and Chairman of the Energy Council Gerald Allen, Colorado Senator and Chairman of CLEER Chris Hansen, US Congresswoman Yvette Herrell, and New Mexico Senator and Vice President for State and Provincial Trends Steve Neville welcome attendees to the 2021 State and Provincial Trends meeting in New Mexico.

See STATE & PROVINCIAL TRENDS IN ENERGY
continued on page 3



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:

The Energy Council

13760 Noel Road, Suite 1160

Dallas, Texas 75240

Phone: (972) 243-7788

Fax: (972) 243-7722

E-mail: energy@theenergycouncil.org

OFFICERS

Representative Richard "Rick" Beck
Arkansas
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Senator Joel Carter
Mississippi
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Tara Shaw
Secretary, Treasurer and Executive Director

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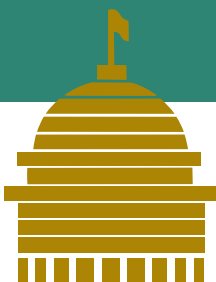
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Jane Taylor
Manager - Financial/IT

Isela Vera
Manager - Administrative

Tell us what you think!

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



Montana Hosted The Energy Council's 2021 Annual Meeting

Montana joined The Energy Council in 2019 as the Council's 14th member state. The Energy Council held its first-ever meeting in Billings, Montana September 16-19.

Leading the conference was Alabama Senator Gerald Allen, Chairman of The Energy Council. Colorado Senator Chris Hansen, Chairman of the Center for Legislative Energy and Environmental Research (CLEER), and Montana Senator Duane Ankney, Vice President for the Annual Meeting, shared in leadership duties.

The conference began on Thursday evening, September 16 with a Welcome Reception and conclude on Sunday, September 19 with The Energy Council and CLEER Business Sessions and a Program Advisory Board planning session for the 2021 Global Energy and Environmental Issues Conference, which is scheduled to be held in New Orleans, Louisiana December 9 – 12.

Topics to be considered for the 2021 Annual Meeting were:

- Clean Energy Technology Initiatives
- Transmission Line Risks
- Coal Ash Recycling
- Rural Energy Opportunities
- Wind Farm Risks and Rewards
- Species Protection and Resource Development
- Natural Gas Sustainability Initiative
- Electric Grid Security
- The Intermountain West Electric Vehicle Corridor
- Energy Storage
- UAB Seminar: Solar+ Storage and Wind+ Storage

More information is available at www.theenergycouncil.org.

2021 State and Provincial Trends in Energy and the Environment Conference

continued from page 1

largest congressional district in the U.S. House of Representatives.



US Congresswoman Yvette Herrell of New Mexico delivers her Welcome Address to attendees of The Energy Council's 2021 State and Provincial Trends in Energy and the Environment Conference that was held in Santa Fe, New Mexico.

She is a member of the Committee on Natural Resources and Committee on Oversight and Reform. On Natural Resources, Herrell serves on the National Parks, Forests, and Public Lands Subcommittee and as Vice Ranking Member of the Energy and Minerals Development Subcommittee. On Oversight, she serves on both the Environment and Government Operations Subcommittees.

Representative Herrell gave attendees an update on some of the legislation that was being considered in Washington, D.C. at the time, such as the Power Act and various infrastructure proposals. She also urged attendees to learn and talk about the Administration's 30 by 30 plan, which is the effort to conserve at least 30 percent of U.S. land and oceans by 2030 as part of an international push for conservation.

Friday morning's first general session speaker was Mr. Tom Fallgren, PNM Vice President of New Mexico Generation. Mr. Fallgren reported on

"Firm Energy Options in a Carbon Free Portfolio." He stated that as the utility industry makes steady and rapid progress to a 100 percent carbon free grid, the necessity to retain system reliability requires providing for firm power capacity with air increase in variable renewable energy resources. He added that while renewables and energy limited resources (such as batteries) provide some capacity needs, increasing penetration of these resources results in their capacity component having diminishing returns. Utilities will need to incorporate flexible, dispatchable non-energy limited resources in their portfolio, he concluded.

"Local Governments' Role in Oil and Gas Regulation," was the subject of a panel consisting of the Honorable Drew Darby, Texas House of Representative and member of The Energy Council, and the Honorable Jeff Robbins, Chairman, Colorado Oil and Gas Conservation Commission.

Representative Darby spoke first and said that state legislatures should assert their preeminent authority in regulating oil and gas activity. In the absence of a clearly defined authority, a statewide patchwork of oil and gas regulation is likely, which does not serve the public interest. Representative Darby feels that local governments should have the ability to exercise their authority over surface activity, provided that regulations are commercially reasonable and do not effectively prohibit oil and gas operations. Representative Darby said in his conclusion that regulatory roles for local governments should be reaffirmed by state legislatures in order to resolve any existing ambiguities.

Chairman Robbins explained that until recently, Colorado's regulation of oil and gas was in concert with most

other states, with the Colorado Oil and Gas Conservation Commission (COGCC) charged with fostering the development of the state's mineral resources and with little authority granted to local governments to address surface and environmental impacts from oil and gas development. With the adoption of Senate Bill 19-181, the Colorado Legislature made two historic changes: The mission of the COGCC changed from fostering oil and gas development to regulating oil and gas in a reasonable and necessary manner that is protective of public health, safety, welfare, the environment, and wildlife resources; and it granted broad authority to local governments to regulate the land use and surface impacts of oil and gas development.

The COGCC is implementing the statute through multiple rulemakings, and stakeholder engagement has achieved consensus on many topics. Chairman Robbin believes the new rules are seen as a pathway to permitting well locations and smart, environmentally protective oil and gas development in the state. In his conclusion, Chairman Robbins stated that Colorado's new path to oil and gas development creates a highly protective state-level path to production and permitting, while allowing local governments to address local land use and surface issues as they exercise their authority consistent with their jurisdiction and in partnership with state regulators.

The topic of "Renewable Diesel Production" was presented by Mr. Steve Konig, Director of State Government Affairs – West Region

See STATE & PROVINCIAL TRENDS
IN ENERGY
continued on page 4

2021 State and Provincial Trends in Energy and the Environment Conference

continued from page 3



As part of a panel discussion on the topic of “Local Governments’ Role in Oil and Gas Regulation,” The Honorable Drew Darby from the Texas House of Representatives presented first on this timely topic.

at Marathon Petroleum. Mr. Konig gave attendees an overview of what renewable diesel is, how it is produced, the policy drivers behind its rapid expansion, and the benefits and current and future outlook. Mr. Konig explained that renewable diesel is produced from such materials as rendered animal fats, vegetable oils, distillers corn oil and used cooking oils. Renewable diesel isn’t the same as biodiesel, he said. While both are made from vegetable oils or animal fats -- not petroleum -- they are processed differently, have different performance attributes, and only renewable diesel is “engine-ready” and can fully replace petroleum diesel without engine modifications. Biodiesel must be blended with other fuels. Most manufacturers’ engines are calibrated to operate with no more than 20 percent of their fuel blend from biodiesel.

According to Mr. Konig, federal and state credit systems require fuel importers, refiners and wholesalers to include an increasing proportion of renewable fuels in the products they sell to comply with regulations.

Renewable diesel generates needed credits in state programs and renewable identification numbers (RINs) in the federal system. Additionally, renewable diesel can be used in conventional engine systems as a complete replacement for or in combination with petroleum diesel without requiring any modifications to conventional engines. Renewable diesel also has a higher cetane than petroleum-based diesel or biodiesel. Cetane is similar to the octane rating of regular gasoline in that higher cetane prevents premature fuel combustion that can cause engine knocking. This higher cetane also reduces engine emissions. In his closing, Mr. Konig stated that renewable diesel is seeing rapid expansion across the nation as a solution to reducing carbon emissions, both by policymakers and the companies that are producing it.

Addressing “Produced Water Potential,” was Mr. Mike Hightower, Program Director at the New Mexico Produced Water Research Consortium. Mr. Hightower explained that oil and gas produced water has been selected by the Environmental Protection Agency as a source of major industrial waste water in the U.S. that should be evaluated and considered for treatment and fit-for-purpose reuse outside the oil and gas sector. To be able to do that, Mr. Hightower said, there are several technical, public and environmental health and safety issues that must be adequately addressed. If successfully treated, oil and gas produced water could support more sustainable use and management of increasingly limited fresh water resources across the U.S. In his conclusion, Mr. Hightower said that current research suggests that produced water can be efficiently and cost-effectively treated to support a large number of fit-for-

purpose applications across the U.S., especially in the western U.S. where water stress is increasing rapidly.

“Lessons Learned from Winter Storm Uri,” was the subject of a panel discussion by Dr. Brent Bennett, Policy Director of Life: Powered and Mr. Raymond Gifford, Managing Partner at Wilkinson, Barker, Knauer, LLP.

Dr. Bennett spoke first and said that while the focus of the discussion around Winter Storm Uri has been the effect of the weather on electric generation and gas supply, little attention has been given to the



The Honorable Jeff Robbins, Chairman of the Colorado Oil and Gas Conservation Commission closed out the discussion on “Local Governments’ Role in Oil and Gas Regulation,” at The Energy Council’s 2021 State and Provincial Trends in Energy and the Environment Conference.

growing shortage of reliable capacity in the Electric Reliability Council of Texas (ERCOT) market. Moreover, the storm is an example of the extreme cost of electricity outages, not just on everyday Texans but also on Texas industry and energy production, and it laid bare the fact that reliability is being undervalued by the current ERCOT market structure. The interconnected nature of Texas’s

See STATE & PROVINCIAL TRENDS
IN ENERGY
continued on page 5

2021 State and Provincial Trends in Energy and the Environment Conference

continued from page 4

energy systems and the state's growing reliance on more volatile resources such as wind and solar demands new solutions that properly account for increased volatility and incentivize reliable electricity delivery, Dr. Bennett concluded.

Mr. Gifford continued the discussion and emphasized that all markets are not created equal, and provided examples of those that are:

- Energy-Only
- Energy plus capacity
- Rate based residual markets
- Regional Power Pools (IIC)
- Bilateral Markets

Mr. Gifford noted that the "Valentine's Weekend Catastrophe" in Texas put wholesale and retail models under renewed scrutiny. The storm raised questions about weatherization incentives in the ERCOT wholesale market. Consumers' and policy-makers' willingness to standby, or retrospectively reform, \$9000/MWh prices, along with the cascading effects in gas markets caused problems throughout the Midwest and West.

Saturday morning's Breakfast Address on "Tools to Address Transition Costs and Stranded Assets," was presented by Mr. Duane Highley, CEO of Tri-State Generation and Transmission Association. Mr. Highley explained that Tri-State is committed to delivering a reliable and affordable clean energy transition while being responsible to its employees, members, communities, and environment. However, he said, it is difficult for not-for-profit cooperatives like Tri-State to manage the costs of this transition because the tools that other types of utilities can use to reduce debt and finance transition are not available to cooperatives.

Summing up his presentation, Mr. Highley said many of the rural communities that cooperatives serve face economic challenges, and some will face further hardship associated with retiring facilities. Creating and expanding options for cooperatives to address these challenges would make it possible for cooperatives to reliably and affordably serve their members with cleaner power, while also supporting the nation's rural communities with jobs, tax revenue and other economic opportunities and benefits that cooperatives are uniquely suited to share.

"Factors to Consider in the Building Electrification Movement," was presented by Mr. Dan Lapato, Senior Director, State Affairs, American Gas Association. Mr. Lapato briefed attendees on AGA's Grounded in Reality series that was developed to provide insight into what could happen to local economies that chose to embark upon on a path of forced electrification. The results have been eye-opening, Mr. Lapato said. He provided a couple of examples of the work done in concert with FTI Consulting:

COLUMBUS, OH

- A ban on natural gas use will increase annual energy-related cost in new homes by \$440 annually and \$630 for older homes;
- The high cost of equipment and expensive retrofitting of older homes, coupled with the increased costs of electricity, will levy a \$354 million price tag to the residential sector by 2040;
- The increase in electricity prices alone would push thousands under the poverty threshold, adding to the 20.6 percent of Columbus residents currently living in poverty;

- New, high efficiency natural gas appliances will shave 11.6 percent from energy bills for residents; and,
- Electrifying the Columbus market would cost \$7.4 billion for minimal emissions reductions—at best 8 percent. For every \$1 gained in CO2 reduction, achieved by forcing consumers to heat and cook with the costly electricity-only option, the Columbus area would pay \$154.

DENVER, CO:

- A ban on natural gas use will increase annual energy-related cost in electric only homes \$570 to \$747—a 70 percent to 92 percent cost increase compared to natural gas homes. All-electric households would see their bills soar \$11,400 to \$14,900 over a 20-year period, nearly twice as much as natural gas homes over the same period;
- Aggregate costs to homeowners would be \$6.9 billion and \$2.5 billion to commercial customers; and,
- On an energy equivalent basis, the gas system provides 2 to 3 times the energy as that of the electric sector during peak winter months.

Dr. Lloyd Gordon of the Center of Excellence for Electrical Safety at Los Alamos National Laboratory, briefed attendees on "Battery Safety." Continuing rapid development of battery technologies is leading to Battery Energy Storage Systems (BESS) for the power grid, and electric transportation for large vehicles, including buses, trucks and trains. Inherent in these evolving battery technologies are facility and

See STATE & PROVINCIAL TRENDS
IN ENERGY
continued on page 9

ALASKA

Senate President Peter Micciche

Senate President Peter Micciche has served in the Alaska Senate since 2013. He was elected Senate President in 2021. He serves as Vice-Chair of the Senate Resources and Senate Rules Committees. He is a member on Education; Transportation; Legislative Budget and Audit; and Legislative Council Committees.

Senator Micciche and his wife, Erin, along with their four children make their home in Soldotna, Alaska.



Peter Micciche
Alaska Senator



Calvin Schrage
Alaska Representative

ALASKA

Representative Calvin Schrage

Representative Schrage was elected to the Alaska House of Representatives in 2021. He currently serves on numerous committees including: Chair, House Energy; Co-Chair House Community & Regional Affairs. He serves as a member on the Natural Resources; Labor & Workforce Development; Revenue; Ways & Means; Comprehensive Fiscal Plan Working Group; Resources; Corrections; Environmental Conservation; Public Safety; and Labor & Commerce Committees.

Representative Schrage and his wife, Heather, make their home in Abbott Loop.

ARKANSAS

Senator Bob Ballinger

Senator Bob Ballinger began serving in the Arkansas Senate in 2019. He served in the Arkansas House of Representatives from 2013 – 2018.

He currently serves on the following committees: Chair, Joint Budget Claims; Co-Chair; Joint Energy Committee; and Vice-Chair, ALC subcommittee on Game and Fish/State Police. He is a member of the Judiciary; State Agencies and Governmental Affairs; Joint Budget Committee and Legislative Council; Code Revision Commission; ALC-Charitable, Penal, and Correctional Institutions; Legislative Joint Auditing-Counties & Municipalities; ALC-Policy Making; ALC Review; ALC Lottery Oversight; and Children & Youth Committees.

Senator Ballinger and his wife, Jessica, have eight children and make their home in Ozark.



Bob Ballinger
Arkansas Senator

THE ENERGY COUNCIL'S EXECUTIVE COMMITTEE UPDATE



Craig Brandt
New Mexico Senator

NEW MEXICO Senator Craig Brandt

Senator Craig Brandt was elected to the New Mexico Senate in 2012.

He currently serves as a member on the Senate Education and Tax and Transportation Committees.

Senator Brandt and his wife, Tonja, have three children and reside in Rio Rancho.

NORTH DAKOTA Senator Don Schaible

Senator Don Schaible began serving in the North Dakota Senate in 2010.

Senator Schaible serves as Chair of the Education Funding Committee. He serves as a Member of the Energy & Natural Resources; State Longitudinal Data System; Rules; Legislative Management; and Early Childhood Education Council Committees.

Senator Schaible and his wife, Carmen, along with their four children reside in Mott.



Don Schaible
North Dakota Senator



Ogden Driskill
Wyoming Senator

WYOMING Senator Ogden Driskill

Serving in the Wyoming Senate since 2011, Senator Ogden Driskill is also the Senate Majority Floor Leader. He currently serves Chair of the Senate Corporations, Elections & Political Subdivisions Committee. He is a Member on the Management Council; Senate Rules & Procedure; Air Transportation Liaison; Select Committee on Capital Financing & Investments; Select Water Committee; State Building Commission Liaison; Wyoming Gaming Commission; and Wyoming Wildlife Taskforce.

Senator Driskill and his wife, Rosanne, have three children and three grandchildren and make their home in Devils Tower, Wyoming.

THE ENERGY COUNCIL'S EXECUTIVE COMMITTEE UPDATE

WYOMING

Senator Drew Perkins

Senator Drew Perkins has served in the Wyoming Senate since 2007. He serves as Chairman of the Appropriations Committee and Chairman of the Select Committee on Capital Financing & Investments. He also serves as a Member on the Management Audit; Financial Advisory Council; and Investment Funds Committees.

Senator Perkins makes his home in Casper.



Drew Perkins
Wyoming Senator



Lloyd Larsen
Wyoming Representative

WYOMING

Representative Lloyd Larsen

Representative Lloyd Larsen began his service in the Wyoming House of Representatives in 2013.

Representative Larsen currently serves on the following committees: Member, Appropriations; Select Committee on Tribal Relations; Select Committee on Capital Finances; Joint Task Force on Department of Health Facilities; and Select Committee on Mental Health & Substance Abuse.

Representative Larsen and his wife, Rebecca, have six children and reside in Lander.

SASKATCHEWAN

Minister Bronwyn Eyre

Minister Bronwyn Eyre was elected as the Member of Legislative Assembly for Saskatoon Stonebridge-Dakota in 2016 and was re-elected in 2020. She has been Minister of Energy and Resources since February 2018.

A former radio broadcaster, columnist and university lecturer, Minister Eyre also served as a Saskatoon public school board trustee. Previously, she was a senior writer/editor for UK-based legal publications Commercial Lawyer and European Lawyer. Minister Eyre has served as Minister of Advanced Education, Minister of Education, Minister responsible for the Status of Women, and Minister responsible for SaskEnergy and SaskWater.

Minister Eyre makes her home in Saskatoon.



Bronwyn Eyre
Saskatoon Minister of
Energy and Resources

CLEER PROGRAM ADVISORY BOARD (PAB) UPDATE



Chris K. Rhodes
President and CEO

SOUTHERN PINE ELECTRIC COOPERATIVE

Southern Pine Electric is a rural electric distribution cooperative with over 10,600 miles of energized line serving more than 69,000 meters. Headquartered in Taylorsville, MS, Southern Pine Electric, services 11 counties and encompasses 14.3 percent of the total land mass of Mississippi. Their mission is to enhance the quality of life of their members and community by safely providing reliable electric energy at an affordable price.

Chris Rhodes was named President and CEO of Southern Pine Electric in September, 2020. Prior to assuming Southern Pine's lead role, Rhodes worked for Cooperative Energy for 25 years, most recently as Senior Vice President of Administration, a role in which he managed the economic development, external affairs, wholesale services, and business information systems groups. He is a graduate of Mississippi State University with a bachelor's degree in mechanical engineering.

Contact Information:

P.O. Box 60, Taylorsville, MS 39160

Phone: 601-452-8101

E-Mail: crhodes@southrnpine.coop

2021 State and Provincial Trends in Energy and the Environment Conference

continued from page 5

personnel safety issues. Dr. Gordon addressed these safety issues both for the protection of facilities, such as power substations and vehicles, and the protection of the public and workers.

Dr. Gordon illustrated numerous examples in the news and safety studies of the failure of lithium ion (Li-ion) batteries and battery banks, including in cell phones, laptops, electronic cigarettes, hoverboards, electric vehicles, energy storage banks, and more. The majority of these incidents or accidents result from component or system failure, or failure initiating from abuse or damage. As a result, more research and development has led to safe designs from single cell lithium ion batteries to large battery banks.

In addressing worker safety, Dr. Gordon said there has been little study of accidents and injuries during the assembly and disassembly of large Li-ion systems, nor sufficient standards written to manage such worker

safely. He explained that protection of workers during assembly and disassembly of high voltage packs and banks is managed by design to reduce exposure to the hazard during assembly, and safe work practices. Safety for emergency responders to electric vehicle crashes includes extensive training and special designs to quickly disable the high voltage battery systems.

In closing, Dr. Gordon stated there is a set of design standards for the management of Li-ion batteries, modules, packs and banks for the protection of the user/operator, and for the prevention of fires. There is still need and opportunity for improvement in designs and safe work practices for assembly/disassembly workers and emergency responders.

Mr. Steve Nelson, CEO of Longview Power briefed attendees on "State Implementation of the Affordable Clean Energy (ACE) Rule." Mr. Nelson explained that the ACE Rule is an efficiency-based replacement

for the Obama Clean Power Plan. Based on Best Systems of Emissions Regulations (BSER) that improve a coal unit's overall efficiency, less fuel burned translates to less CO2 emitted. CO2 emissions are set at the state level; thereby, the states drive the effort.

Mr. Nelson noted in his overview that Longview Power is a leader in coal fired modern clean coal electric generation. With industry leading operations, Longview successfully researched and filed the country's first ACE rule permit.

Mr. Gideon Powell, President and COO for Cholla Petroleum, Inc. reported on "Cryptocurrency Energy Consumption." Mr. Powell explained that Bitcoin mining began in 2009 with current energy

See STATE & PROVINCIAL TRENDS
IN ENERGY
continued on page 10

2021 State and Provincial Trends in Energy and the Environment Conference

continued from page 9

consumption estimated at 10GW of power globally. According to Mr. Powell, many are turning to Texas's deregulated energy market and other energy rich areas with favorable regulatory environments to set up their operations to accommodate increased bitcoin mining and subsequent power needs. Bitcoin mining's large, but flexible, power consumption is leading to more



Saturday afternoon's University Advisory Board (UAB) presenter was Mr. Mark Robeck, Attorney and Consultant for Energy Evolution Consulting. Mr. Robeck delivered his topical discussion on "Natural Gas Markets" at a noon-time seminar at the 2021 State and Provincial Trends in Energy and the Environment Conference.

resilient grids, lower CO2 emissions, lower energy costs for consumers, and more economic development. All of this is being accomplished through market-based solutions that will benefit all and usher in an energy renaissance, he stated.

Mr. Johnny Casana, U.S. Political and Regulatory Affairs advisor at Pattern Energy Group reported on "Planning and Permitting Process for Renewable Generation Facilities." Mr. Casana noted that renewable energy is now a global industry and a major share of the global energy investment. He maintained that renewables will be 86 percent of energy investment from 2017 to 2040, over \$8.77 trillion.

Wind and solar are now cheaper than new gas and new coal, according to Mr. Casana, and will be a large part of new energy markets based solely on competitive cost.

Mr. Casana cited what he feels are the three main cost reduction drivers for renewable power:

- Technology improvements;
- Competitive procurement; and,
- A large base of experienced, international developers.

In his conclusion, Mr. Casana stated that utility-scale wind and solar projects, the majority of which are located in rural America, provide an opportunity for nonmetro communities to experience economic growth, strengthen the country's energy security, and contribute to a sustainable future.

Saturday afternoon's CLEER University Advisory Board (UAB) Seminar was presented by Mr. Mark

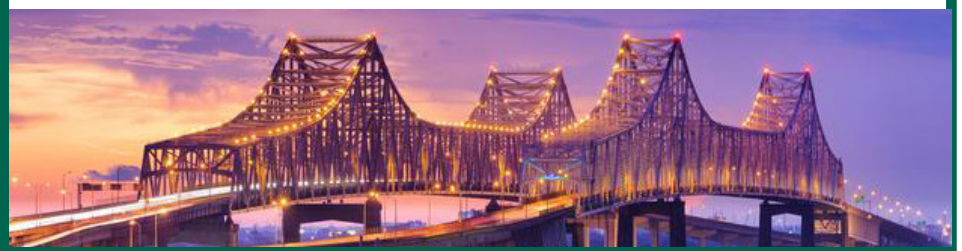
Robeck, Attorney and Consultant at Energy Evolution Consulting. He presented on the topic of "Natural Gas Markets."

"Natural gas in the United States is traded in one of the most liquid markets in the world, which has driven technological innovation and resulted in the lowest priced natural gas among developed countries," Mr. Robeck said. Market distortions continue to confound market participants and consumers who unexpectedly receive shockingly high bills for their natural gas supply or electricity, he added.

Understanding the fundamentals of natural gas infrastructure, markets, and trade practices, along with the causes of past market distortions, will support consideration of policies intended to mitigate the risks of future market distortions without undermining what has been one of the most successful commodity markets in history, Mr. Robeck concluded.

SAVE THE DATE

**The Energy Council's
Global Energy and Environmental
Issues Conference
December 9 – December 12, 2021
New Orleans, LA**



Final Agenda

The Energy Council's 2021 State and Provincial Trends in Energy and the Environment Conference

June 17-20, 2021

Santa Fe, NM

Welcome Remarks and Opening Address

The Honorable Gerald Allen
Alabama Senate and
Chairman, The Energy Council

The Honorable Chris Hansen
Colorado Senate and
Chairman, CLEER

The Honorable Steve Neville
New Mexico Senate and
Vice President, State and
Provincial Trends

The Honorable Yvette Herrell
of New Mexico U.S. House of
Representatives

Firm Energy Options in a Carbon Free Portfolio

Mr. Tom Fallgren
PNM Vice President of NM
Generation, PNM Resources

Local Governments' Role in Oil and Gas Regulation

The Honorable Drew Darby
Texas House of Representatives
and Member, The Energy Council

The Honorable Jeff Robbins
Chairman
Colorado Oil and Gas
Conservation Commission

Renewable Diesel Production

Mr. Steve Konig
Director, State Government Affairs
– West Region
Marathon Petroleum

Produced Water Potential

Mr. Mike Hightower
Program Director
NM Produced Water Research
Consortium

Lessons Learned from Winter Storm Uri

Dr. Brent Bennett
Policy Director, Life: Powered
Texas Public Policy Foundation

Mr. Raymond Gifford
Managing Partner
Wilkinson, Barker, Knauer, LLP

Breakfast Address: Tools to Address Transition Costs and Stranded Assets

Mr. Duane Highley
CEO, Tri-State Generation &
Transmission Association

Factors to Consider in the Building Electrification Movement

Mr. Dan Lapato
Senior Director, State Affairs
American Gas Association

Battery Safety

Dr. Lloyd Gordon
Center of Excellence for Electrical
Safety
Los Alamos National Laboratory

State Implementation of the Affordable Clean Energy Rule

Mr. Steve Nelson
CEO, Longview Power

Cryptocurrency Energy Consumption

Mr. Gideon Powell
President and COO
Cholla Petroleum, Inc.

Planning and Permitting Process for Renewable Generation Facilities

Mr. Johnny Casana
U.S. Political and Regulatory
Affairs Pattern Energy Group

UAB Seminar: Natural Gas Markets

Mr. Mark Robeck
Attorney/Consultant
Energy Evolution Consulting

Working Breakfast: Energy Council and CLEER

**Business Sessions and CLEER
Program Advisory Board Meeting**