

The PIOGA Press

The monthly newsletter of the
Pennsylvania Independent Oil & Gas Association
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PIOGA's Annual Meeting



PIOGA's Annual Membership Meeting was back to virtual this year with about seventy-five members signing on remotely for the October 6 event. Members logged in for a two-hour review of the association and the industry.

Board Chairman Gary Slagel of Steptoe & Johnson was the first speaker. He reviewed PIOGA's mission and vision statement, commented on the association's successes and briefly explained the importance of the annual meeting.

"This annual meeting brings our members up-to-speed on the state of the association – it keeps everyone informed on where we have been and where we are going" said Board Chairman, Gary Slagel. "Everything this association does is for its members."

After announcing the results of the recently concluded election of directors (see article page 3), Slagel went on to recognize PIOGA's Board of Directors and Executive Committee.

Slagel also thanked the PIOGA staff for their efforts in carrying out the organization's work, especially planning a full slate of events ranging from committee meetings and PIOGATech training to conferences and networking events.

President and Executive Director Dan Weaver provided a State of the Association overview that highlighted:

- PIOGA currently has over 360 members, a number that is higher than previous years (gained more members this year)
 - PIOGA's "Just the Facts" series of fact sheets help provide information to the public. Currently, there are over 15 JTFs available to all members on PIOGA's website
 - A survey was sent out this week to all members. The survey focuses on our membership and participation in committees. Requested all members take the survey.
 - The importance of members joining the committees and to be more active in the association
- Weaver discussed the current 'war' that has been

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Congratulations to our newly elected board members

The results of this year's board elections were announced at the Annual Membership meeting held on October 6. Congratulations to the 12 members selected to fill the board seats for the 2022-2025 term: David Cook – American Refining Group, Inc., Dan Billman – Billman Geologic Consultants, Inc., Brian Bittinger – Bittinger Drilling, Gene Pietrowski – BlackRock Resources, LLC, Paul Kanouff – Civil & Environmental Consultants, Inc., Carrie Crumpton – CNX Resources Corporation, Bruce King – Greylock Energy, Michael Hillebrand – Huntley & Huntley, LLC, Robert Beatty – Coolspring Gas & Oil Co., LLC, John Snedden – ShalePro Energy Services, Bryan Snyder – Snyder Brothers Inc., Jessica Houser – WGM Gas Company, Inc.

Eight of the board members were incumbents, with four new members elected.

The four new board members are: Gene Petrowski, Paul Kanouff, Carrie Crumpton and John Snedden.

The board has a total 25 seats – 12 were up for election this year for a three-year term (2022-2025).

New Member Bios

Gene Petrowski - Gene is Director of Business Development with BlackRock Resources. He has over 30 years in the consulting engineering industry focused on the energy/industrial market with professional responsibilities including project management, corporate radiation safety, market segment leader, and business development executive. During the past ten years his primary focus has been on the oil & gas sector. His experience has spanned the energy spectrum with projects in electric generation, electric transmission, oil & gas, and industrial.

Gene currently is a member of the PIOGA Market Development Committee and Co-chair of the New Projects Subcommittee. A national subject matter



expert on inventory services, Gene has published multiple articles, newsletters, and presentations. He is an active participant in various professional organizations including: PIOGA (Pennsylvania Independent Oil & Gas Association), GOWV (Gas and oil Association of West Virginia), and ABGPSA (Appalachian Basin Gas Processors Association) to name a few.

An innovative problem solver who excels in resolving complex technical issues and exceptional communicator with strong abilities in leading diverse groups. He is a key leader in the continued success of business unit geographical expansions and continued market share growth, including the development and implementation of customer service improvement plans and initiatives. He consistently drives project quality and efficiencies through his analytical decisions and has been instrumental in the growth and development of business but also industry clients and their needs.

Gene was raised in central PA and graduated from St. Francis University with a Bachelor's Degree in Engineering with continued focus on project management/controls and materials at Penn State under their civil engineering program. He spends his spare time on community projects and is president of the local youth baseball program.

Paul Kanouff - Paul Kanouff is a Principal with Civil & Environmental Consultants, Inc., where he has worked for the past 22 years. Paul is the Ecological Practice Lead for CEC's Monroeville, Pennsylvania office. His work is focused on the natural gas industry, specializing in permitting wetland and stream impacts and resolving endangered species conflicts. Paul's permitting knowledge and expertise has helped his clients navigate changing and increasingly strict regulations.

Paul has been an active member of PIOGA for over 12 years and recently started serving as co-chair of PIOGA's Environmental Committee. Paul

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also serves as chair of the Erosion & Sedimentation/Wetlands & Streams/Endangered Species sub-committee. As chair of the sub-committee, Paul provides monthly updates on regulatory/policy changes related to erosion and sedimentation and streams and wetlands and prepares comments to draft regulations. Paul also participates in the PADEP Quarterly O&G Industry meetings on behalf of PIOGA.

Carrie Crumpton - Carrie Beth Crumpton is Vice



President of Environmental Strategy for CNX Resources Corporation. She is responsible for providing strategic and technical leadership for the environmental

pillar of the company's ESG and compliance efforts. In addition to supporting CNX's Operations team, she focuses on strategy development for emerging issues and external stakeholder and regulatory engagement.

She has over 22 years of experience in the oil and gas industry.

Carrie holds a Bachelor of Science degree in Environmental Science from The University of Virginia's College at Wise and holds a Qualified Environmental Professional (QEP) certification through the Institute of Professional Environmental Practice.

Carrie also devotes time and serves on the Board of Directors for Food Helpers (formerly the Greater Washington County Food Bank) and the CNX Foundation.

John Snedden - John has over 36 years of man-



agement experience in the oil and gas industry and currently serves as Chief Executive Office of ShalePro Energy Services.

Prior to joining ShalePro was Senior Vice President of Operations at a Keystone Clearwater Solutions. John was responsible for leading the company in safety and operational excellence, delivering best-in-class technology solutions through automation, and assuring SOP

standards in customer satisfaction and consistent operational performance were met.

Prior to joining Keystone, John worked with a national water management company, where he was Vice President of US Transfer Services. In that role, he managed and directed all the operations and HSE across the United States, responsible for the Profit and Loss of this Multi-Million Dollar business. During his tenure, John developed Competency Assessment Systems (CAMS) throughout the US operational areas, implemented safety management tools that improved TRIR from 1.88 to .88, and developed Standard Operating Procedures for all operations including streamlined purchasing processes, and consolidating inventories across the US.

Prior to that, he held management positions in other well-known companies in the industry including Nabors Industries, one of the world's largest land-based drilling rig fleet and provider of offshore drilling rigs in the United States and multiple international markets and Pennzoil/Quaker State.

Thank you for your service!



PIOGA would like to thank Brook Bertig-Coll from Fisher Associates for her service to PIOGA as she ends her term on the Board of Directors.

"Brook has been an active member and board member for the past four years and we appreciate her commitment to PIOGA. We thank Brook for her leadership and dedication to the Board of Directors," said Dan Weaver, President & Executive Director.



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WBGT and Work/Rest Schedules Two Useful Tools in Heat Injury Prevention

Article was recently published in the September 2022 Newsletter of RJR Safety Inc.

With OSHA's National Emphasis Program (NEP) on heat stress prevention, the Advance Notice of Proposed Rulemaking (ANPR) to initiate the rulemaking process towards a federal heat standard, some state OSHA plans already having heat injury prevention standards, and the need to protect workers from heat stress and heat injuries in both indoor and outdoor work environments, the OSH Professional will need to develop a toolbox from which to protect the workers. Two such tools are the wet bulb globe temperature (WBGT) and the work/rest schedule. Using these two tools along with other tools such as acclimatization, rest/shade, and hydration, will help the OSH Professional guide the employer in preventing heat injuries.

Since OSHA began to focus efforts on preventing heat injuries, OSHA has used the National Weather Service (NWS) Heat Index that only works in outdoor environments and cannot be modified to use indoors. An OSH Review Commission Administrative Law Judge, in July of 2020, ruled in one case that the NWS Heat Index has no scientific basis of the heat risk categories and could not be used (in the specific case) as evidence of a violation.

The wet bulb globe temperature (WBGT) can be used indoors and outdoors. It is used by the US military and college athletic programs to determine the workloads the workers or athletes are placed under and the guidelines under which to place them. By using the WBGT and developing company-specific, geographic area-specific work-rest schedules, along with other such tools, OSH professionals will be able to prevent heat injuries.

The WBGT and the use of work/rest schedules is discussed on the OSHA Heat Illness Prevention web pages and on OSHA's Safety and Health Topics page for Heat. Between OSHA's information, the information provided by the ACGIH in the 2022 TLV and BEI documents, NIOSH, and the US military, there is a significant amount of information for the OSH Professional to use and examples on which to base their own programs. However, many OSHA Professionals have not used the WBGT or work/rest schedules as part of their heat injury prevention program.

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PIOGA Members in the Community

PIOGA is looking for more Members in the Community feature stories! If you are a PIGOA member and have a positive community story to share - please reach out to meghan@pioga.org.

We are looking for stories of community impact - education programs, volunteering, positive industry outreach, donations, etc.

It is time to showcase all the good in our industry and shed light on the positives! These feature stories/articles will be used in PIGOA's social media and future marketing materials!

If you have any questions or suggestions for articles - please reach out! Together we can educate and promote the Oil & Gas industry!

Safety Article *Continued from page 5*

OSHA is moving more to using the NWS Heat Index as a screening tool that would indicate when the employer should start applying their heat injury prevention policy which includes the conducting of a heat hazard assessment. The heat hazard assessment involves the use of the Effective WBGT (from ACGIH) and the company-specific, geographic area-specific work-rest schedules. The Effective WBGT is the temperature from the WBGT and then adding a Clothing Adjustment Value (CAV). This adjusted value considers that the clothing a worker is wearing, and additional PPE add to the potential heat stress. Geographic area-specific work-rest schedules consider if the work is being done indoors or outdoors, in the north where there are not as many hot days or in the south where there are many more hot days.

OSH Professionals need to develop their workload categories and associated task lists based upon ACGIH/OSHA guidance and examples, then determine the Effective WBGT ranges per their geographic area and the associated risk levels which are provided in the ACGIH/OSHA guidance that include the associated work/rest ratios. The work/rest schedule is based upon the workload categories that could be Light, Moderate, and Heavy, and Very Heavy per ACGIH and OSHA guidance or Easy, Moderate, and Hard as used in the US military work/rest schedules or otherwise be developed by the employer. These workload classifications in ACGIH and OSHA guidance are based upon the metabolic rate given in watts for each of their workload categories. ACGIH gives some basic descriptions of tasks performed in each of their four work categories. OSHA guidance further lists examples of specific tasks further expanding on the ACGIH basic description. Using these lists, OSH Professionals can develop the list of tasks that best fit into each of the workload categories, so they are representative of the tasks their workers perform.

With the development of the workload categories and using the Effective WBGT, OSH Professionals

then needs to determine if the workers are acclimatized or unacclimatized. Using the Effective WBGT, find the range in which their Effective WBGT temperature is in, look at the associated workload category, and the correlating work/rest ratio or schedule to determine based upon all of this information how long a worker can work and how long a worker should rest in the shade along with hydration to protect a worker from heat stress and reduce the potential of a heat injury.

Learning about the WBGT and how to develop then apply work/rest schedules as part of a heat injury prevention program is important for an OSH Professional. We need to better understand and develop new tools using technology such as waterless WBGT monitors, well-established examples and guidance on work/rest schedules, and understanding the differences in the determination of the WBGT in an indoor environment versus an outdoor environment. OSH Professional with practical knowledge of the WBGT, determining the Effective WBGT, establishing work categories, and the development and application of the work/rest schedule following ACGIH and OSHA guidance, OSH Professionals will be more able to prevent heat injuries. ■



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PHMSA's New Rule for Gas Transmission Lines

Authored by Babst Calland Attorneys Brianne Kurdock, Esq. and Keith Coyle, Esq.

On August 24, 2022, the Pipeline and Hazardous Materials Safety Administration (PHMSA) published a new final rule for onshore gas transmission pipelines (the Rule). The Rule marks the completion of a three-phase rulemaking process, commonly referred to as the Gas Mega Rule, that began more than a decade ago. The Rule focuses mainly on transmission pipelines and amends or adds various provisions to 49 C.F.R. Part 192. The Rule will become effective on May 24, 2023. There are six key areas that owners and operators of gas transmission pipelines should be aware of:



Definitions and Standards Incorporated by Reference

PHMSA added new definitions for terms referenced in the regulations, including close interval survey, distribution center, dry gas or dry natural gas, hard spot, in-line inspection (ILI), in-line inspection tool or instrumented internal inspection device, and wrinkle bend. The definition of transmission pipelines was revised to include a “connected series” of pipelines to clarify that transmission pipeline can be downstream of other transmission pipelines, and to allow operators to voluntarily designate their pipelines as transmission lines.

Management of Change

Operators of all onshore gas transmission pipelines must now evaluate and mitigate any significant changes that pose a risk to safety or the environment through a management of change process. The process must include the reasons for the change, the authority for approving changes, an analysis of the implications, the acquisition of required work permits, and evidence documenting communication of the change to affected parties, time limitations, and the qualification of staff. For pipeline segments not covered by Subpart O, operators must implement this management of change process by February 26, 2024. Operators may seek a technically justified extension of this deadline of up to one year through the section 192.18 notification process. PHMSA specifically noted that these changes do not apply retroactively and do

not cover gathering or distribution pipelines.

Corrosion Control and Related Construction Requirements

The Rule amends numerous corrosion control requirements for onshore gas transmission pipelines, addressing the monitoring and remediation, if needed, of both external and internal corrosion. The Agency issued new requirements to conduct pipe coating assessments soon after construction, determine protective coating strength, survey for interference currents, and monitor gas streams for internal corrosivity. In conjunction with the enhanced corrosion monitoring for internal and external corrosion, PHMSA established new corrosion control remediation criteria and timelines to correct discovered deficiencies. PHMSA acknowledged that these new construction and corrosion control requirements do not apply to gathering or distribution pipelines.

Inspections and Remedial Action Following Extreme Weather Events

Similar to the requirements for hazardous liquid pipeline operators, PHMSA is now requiring gas operators to perform an initial inspection following extreme weather events such as earthquakes, river channel migration, and landslides. The operator must conduct the inspection 72 hours after it reasonably determines that the affected area can be safely accessed by personnel and equipment and the equipment and personnel are available. The operator must take prompt remedial action to ensure the safe operation of a pipeline based on the information obtained from the inspection. PHMSA explains that such remedial actions may include reducing the operating pressure, shutting down the pipeline, modifying, repairing, or replacing any damaged pipeline facilities, or performing additional patrols, surveys, tests, or inspections.

Integrity Management

A significant portion of the Rule focuses on the integrity management (IM) program requirements in 49 C.F.R. 192 Subpart O. The Rule prescribes new or amended requirements for identifying and analyzing threats, performing direct assessments, repairing pipelines, and implementing preventive and mitigative measures (P&MM).

Threat Identification and Data Integration

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PHMSA has added certain pipeline attributes from ASME/ANSI B31.8S directly into the pipeline safety regulations. Current IM regulations require operators to conduct a risk assessment using the identified threats to determine what additional P&MM are needed to ensure the safe operation of the pipeline. Operators must begin to integrate all pertinent data elements starting on May 24, 2023, with all available attributes integrated by February 26, 2024. An operator may request an extension of up to one year by submitting a notification to PHMSA at least 90 days before February 26, 2024, in accordance with § 192.18.

Internal Corrosion Direct Assessment and Stress Corrosion Cracking Direct Assessment

The rule addresses direct assessments by incorporating NACE SP0204-2008 and NACE SP0206-2006 by reference. These standards concern stress corrosion cracking direct assessment and internal corrosion direct assessment, respectively.

Repair Criteria

Finally, the Rule provides a robust overhaul of current repair criteria regulations. The Rule applies integrity-related repair criteria to pipelines not subject to the integrity management requirements in Subpart O. Repair criteria for immediate conditions, which include certain crack, dent, and corrosion anomalies, are now identical to those in Subpart O. Operators of non-Subpart O pipelines have two years to repair “one-year conditions,” which vary slightly from those in Subpart O, and must monitor certain conditions. The Rule requires operators to use these repair criteria when making permanent repairs on transmission lines located outside of HCAs.

Other Considerations

On September 23, 2022, the Interstate Natural Gas Association of America, the American Petroleum Institute, and the American Gas Association submitted petitions for reconsideration on this rule.

If you have any questions about PHMSA's new final rule, contact Brianne Kurdock at 202-853-3462 or bkurdock@babstcalland.com or Keith Coyle at 202-853-3460 or kcoyle@babstcalland.com. ■

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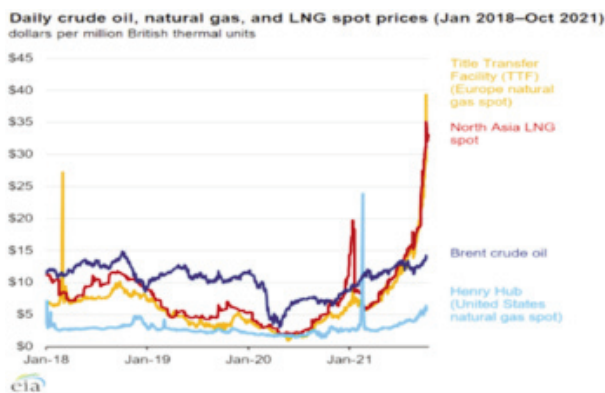
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Understanding the Latest Natural Gas Price Explosion in Appalachia

Authored by David Marks, PA Energy Fuels LLC. and Chair of the PIOGA Market Development Committee.

Global natural gas prices have been on the rise and have skyrocketed in Asia and Europe the past two years. Basic fundamentals that have been driving this price action, that now also include recent war premiums this year, have also been the focus of traders here in the US. This article helps to make sense out of the recent price explosion that has reached all the way to Appalachia, despite the apparent oversupplied situation from ongoing Marcellus and Utica production.

The EIA-supplied chart below, ten months old now, shows the dramatic increase in price for natural gas in Europe and Asia, and subsequently the United States.



Benchmark Price Points

To understand the Appalachian price explosion, we have to understand the relationship between benchmarks in the US and benchmarks in other parts of the world. Natural gas has a different value for different purposes in different places for different seasons everywhere. The market has developed a method that brings order to this.

Benchmark price points have been established, including major locations that tie together interstate pipeline systems and regional points that generally represent major gas fields. And the ability to transport supply between benchmarks gives us the ability to price US gas compared with the European and Asian supply/demand positions.

North America

Before the shale revolution, the lion's share of natural gas produced in the US came from the 'southwest' – Texas, Louisiana, and Gulf of Mexico. Henry Hub, a huge pipeline header system in southern Louisiana,

interconnects with nine interstate and four intrastate pipelines with compression for more than a half a bcf per day and capacity of more than 1.8 billion bcf per day. Henry became the logical location to serve as a price standard - the benchmark pricing point for most of North America.

Asia

The Asian benchmark price is called the North Asia JKM LNG Price, and refers to the LNG import price for Japan, Korea, Taiwan, and China. JKM has become the logical location for most of the northeast Asian natural gas market.

Europe

Title Transfer Facility (TTF) is the pricing location in the Netherlands for Europe. TTF also serves as a pricing proxy for the overall European LNG import market. TTF's location in the Netherlands was logical as it includes the Groningen field, the largest gas field in Europe and the major natural gas source in the Netherlands.

Price Differentials between Benchmarks

Returning to the ability to transport supply between benchmark locations, we can measure transport costs and build a basis – the price differential between one point and another. With the advent of the LNG industry, we have the ability to price US gas compared with the European and Asian supply/demand positions.

Some History

The first LNG shipments were made in 1959 and the first dedicated LNG carrier began operation in 1964. But the real LNG market in the United States began in the late 1970s when America responded to the oil crisis. Since then, and driven by low prices, abundant supplies and environmental concerns, LNG was expected to account for an increasing share in the US market. In 2012, natural gas consumption was 24% of the overall energy consumption and 1.2% of that was imported as LNG. Imported LNG was considered one of the feasible means to close the gap between production and consumption (Energy Information Administration).

Natural gas imports peaked in 2007

Total annual imports reached about 4.61 Tcf in 2007, or 12.62 Bcf per day and have generally declined each year since then. In 2021, total annual U.S. natural gas imports were 2.81 Tcf (7.29 Bcf/d).

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Annual Meeting *Continued from page 1*

declared on the oil and gas industry. "We are constantly under attack. The general public is naïve at times and as an association we need to provide industry truths to the public. The public needs to understand that the modern society is built upon the things that our members make and the work that we do," Weaver said.



Weaver acknowledged the partnership with IPAA (Independent Petroleum Association of America) and API (American Petroleum

Institute). "Over the last year we have spent 50% of our time dealing with regulations coming from our federal government," Weaver said. "Partnering with IPAA and API allows us to function well at a federal level."

Weaver emphasized the importance of voting in the upcoming elections. He also informed members about the Political Action Committee and the ability to make political donations that allows for anonymity. Contributions can be made directly to the committee and then will be used to support political candidates.

"The key part of our association is our members," Weaver said in closing. "We tackle subjects that come from our members. Please don't be shy and let us know what you are concerned about or if we can get involved. As members you provide PIOGA with ammunition and we are here for you."

Legal and Legislative Update



Kevin Moody, PIOGA General Counsel and Vice President for Government Affairs, provided a fast-paced overview of the many legal actions,

rate cases and industry-related rulemakings the association has monitored or been involved in. Many of these have been reported on over the past year in pages of The PIOGA Press or the PIOGA eWeekly electronic newsletter.

Moody reviewed the following matters: DEP v. B&R Resources & Richard Campola; Regional Greenhouse Gas Initiative; VOC Rulemakings;

Manganese Rulemaking; PEDF Oil and Gas Lease Fund litigation; Grant Township litigation; PA One Call litigation and the Peoples Cases.

Moody also reviewed the well plugging and the concerns about the Davis-Bacon Act on prevailing wages. "DEP put out the solicitation on the first \$25 million dollars of funding for well plugging," Moody stated. "There was some concern from members about the Davis Bacon Act and prevailing wages. We looked into this and at this point, there is nothing we can really do. All other states are getting this federal money and are following the requirements. I don't think there is a way of us having DEP do it any differently. We will continue watching this."

Moody went on to discuss the DEP Act 96 report on the conventional industry. The report was sent from DEP to the governor's office on September 1st. "We (PIOGA) submitted a Right to Know Request to the governor's office for the report. We received response today (this morning) from governor's office exercising their right for an extension. They should get back to us by November 7."

Moody also reviewed the DEP Brine Study, co-product determinations, Chapter 78 rulemaking, and blue hydrogen.

Dick Gmerek of PIOGA's lobbying firm, Gmerek Government Relations, emphasized the unpredictability of the upcoming change in legislators. "It is going to be a lot of rookie legislators," Gmerek stated. "Fifty house members are leaving this year. Twenty-one committee chairs are leaving. This is going to be a big change."

Gmerek stated he thought the House and Senate would stay majority Republican this upcoming election, but he said two years from now that could be another story. He put focus on the fact that several industry-supporters will no longer be on the hill. "Metcalf (R-Butler) who has been a huge supporter of the industry is retiring and others who supported the industry will no longer be in office."

Gmerek went on to summarize this past legislative

session; noting that 4,000 bills were introduced, five percent of those were signed into law and fifteen were vetoed by the governor. He also mentioned he believed that Shapiro would be the upcoming Governor-elect and referred to him as "Rendell-like" which is good for the industry, stating Shapiro may be more apt to work with the industry.

Gemerek ended his overview with recognizing the PIOGA staff and members who have been assets to the industry and helping in Harrisburg. Chris Lammando, Vice President of Gmerek, presented on the VOC rulemaking, Hydrogen technology/HUB in Pennsylvania and thanked all the members and PIOGA staff for their help and dedication.

Committee Reports

Membership Committee - Co-Chair, Jessica Houser, WGM Gas Company, Inc. presented.



Houser provided a review of the committee's mission statement, noting the committee's focus on "communicating the value of the association to not only the membership but to potential members, the industry and to the world."

Houser noted the importance of membership and participation in committees. "It is little time commitment but has a big impact for PIOGA and the industry," Houser said.

She went on to review the value of PIOGA, the networking events, current state of membership, committee progress, recruitment tools development and membership benefits.

Environmental Committee – Co-Chairs Angelo



Albanese, Diversified Energy Company and Paul Kanouff, Civil Environmental Consultants, Inc. provided an overview of their committee's structure, the mission statement, and various issues the group is dealing with.

Albanese remarked that one of the main topics they have been following is the well plugging

money. "Pennsylvania is dragging its feet, it seems like. People (people in our industry) want to get these wells plugged."

Albanese stated one of the issues holding things up at every level is staff turnover. "Staff turnover impacts everyone." Albanese said. "Not only at DEP but at the industry level as well. It is a trickle down. It causes issues with new staff and not being able to get things done."

Albanese and Kanouff gave an overview of the sub-committees and issues that have been addressed. The co-chairs gave mention to the 2022 and 2023 PIOGATechs.

Safety Committee - Presenting virtually was co-chair Wayne Vanderhoof, RJR Safety Inc. Vanderhoof started his presentation with a review of the past year's meetings and



PIOGATechs.

Vanderhoof went on to detail the committee's partnership with West Virginia University. "We (Safety Committee/PIOGA) provided West Virginia University's Safety and Health Extension with letters of support for their various applications to OSHA for grants. The extension (West Virginia University's Safety and Health Extension) put together several trainings for the oil and gas industry. The current grant that we provided a letter of support for was an Oil and Gas Hazard Awareness training- specifically focused on high school-worker education."

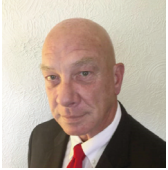
The committee is planning three safety meetings and three PIOGATechs for 2023.

Vanderhoof stated in 2023 the Safety Committee would like to partner with the Market Development Committee for a joint meeting. "The Safety Committee would like to work with the Market Development Committee in reviewing industry incidents (refinery fires as an example) and look at it from the safety point-of-view but then also how it impacts the economy. Show the overlap of safety and business in such incidents." Vanderhoof ended his presentation with noting

Annual Meeting *Continued*

that the committee is always looking for new members and new topic/safety ideas. He asked for anyone interested in joining the committee to reach out.

Market Development Committee - Committee



Chair, David Marks, PA Energy Fuels LLC, opened his remarks by explaining the Market Development Committee meetings are driven by market forces, new and ongoing projects, and community outreach.

"I am constantly reminding membership these are the issues consistently impacting our revenue – our bottom line," Marks said. "We discuss the issues that directly impact pricing here in Appalachia."

Marks explained that the committee's monthly meetings focus on markets, where they are headed and why. Led by the committee's New Projects Subcommittee, the group also receives a steady diet of useful information about new opportunities for Pennsylvania producers. The group also organizes field trips to a variety of facilities.

Marks mentioned, at the end of his presentation, about the importance of 'elevator speeches' for our PIOGA members. "I am urging everyone to have an elevator speech. A ready set of facts that support our industry and its products."

Tax Committee - Bill Phillips, Baker Tilly US LLP,



Chair of the Tax Committee began his presentation with explaining the general purpose of the committee. "We try to monitor federal and state tax developments and communicate those to the members," Phillips said.

Phillips went on to detail the positive tax developments that have occurred this past year. Mentioned were the marginal well production rate/credit and the IRS adjusted business mileage rate.

Phillips explained that starting in 2023 through 2031, the Pennsylvania Corporate Rate is stepping

down from 9.99 percent to 4.99 percent. "This will be a significant decrease in Pa corporate tax rate," Phillips said.

Phillips ended his presentation by mentioning the upcoming Annual Oil & Gas Tax and Accounting (virtual) Seminar on November 15.

Diversity Committee- The committee's chair,



Deana Stephens of Steptoe & Johnson, shared the mission of the group, which is "to work collaboratively to advocate, educate and support diversity within PIOGA, as well as within Pennsylvania's oil and natural gas industry. The committee will work to ensure that PIOGA provides a climate and culture that encourages educational, business, and social interactions that support a diverse membership of individuals involved in the oil and natural gas industry in Pennsylvania."

Stephens went on to thank the current eighteen committee members and the PIOGA staff – for participation and assistance.

Stephens presented a brief recap of the committee in 2022 and a look forward to 2023.

In 2022, the committee held an Implicit Bias Lunch and Learn; an ESG panel discussion (at the Spring Meeting); and (scheduled for the M2M meeting) a Mentorship panel discussion – focusing on recruitment and retention of workers.

In 2023, the committee is planning to continue their ESG Lunch and Learn Series and well as planning a joint event with the Women's Energy Network. ■

For the recording of the meeting, please click here.

(Link:https://pioga.org/publication_file/2022-Annual%20Membership-Meeting-Recording.mp4)

To view the PowerPoint slides only, please click here.

(Link:https://pioga.org/publication_file/PIOGA%202022%20Annual%20Meeting%20Overview.pdf)

To see all PIOGA's upcoming events, please click here

(Link: <https://pioga.org/events/pioga-events/>)



PIOGATech

PIOGA's Technical Seminar Series

PIOGATech Air Quality Compliance Training

The Air Quality Compliance Training event will take place on December 15 at The Chadwick in Wexford. This course is designed to provide a basic understanding of the factors that influence air emissions, an overview of the regulations as they relate to oil and gas operations, compliance, and testing methods. Registration for the event opens on November 1.

SAVE THE DATE! Registration will open the beginning of November. Check on PIOGA Events webpage <https://pioga.org/events/pioga-events> for the latest details.

Event Details

Date: December 15, 2022

Time: 9 am - 4 pm

Venue: The Chadwick - 10545 Perry Highway Wexford, Pa 15090

Additional Information: Contact Deana McMahan

deana@pioga.org




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**JUST
THE
FACTS**



Just the Facts: Make Your Vote Count for Pennsylvania Energy!

PIOGA's October Just the Facts has a simple message: the 2022 midterm elections are a month away, and policies related to energy development, both in Pennsylvania and nationwide, continue to be a critical part of the political dialogue. Our industry's votes matter, and PIOGA encourages members to engage in the political process and during the month of October learn more about the positions of various candidates for office.

To start, here is an outline of the positions on energy from the campaign websites for candidates for Governor and U.S. Senate.

Democratic gubernatorial candidate Josh Shapiro's summary statement on energy and the environment can be found here: [\(LINK TO PAGE\)](#). It begins with this introduction: "Pennsylvania is one of the most important energy-producing states in the entire country. The Commonwealth is the second largest natural gas producing state in the nation and the largest electricity exporter in the entire country. As an energy powerhouse with an incredibly diverse economy, we have everything we need to be a national and global leader on charting a path towards a low carbon future while continuing to create stable, good-paying jobs and grow our economy."

His Republican opponent, Doug Mastriano, titles his position to "Unshackle Our Energy Sector" by stating: "On day one, Mastriano will pull Pennsylvania out of Tom Wolf's disastrous 'Regional Greenhouse Gas Initiative.' He'll encourage investments in the natural gas and coal industries, and he'll lift Tom Wolf's unreasonable regulations, taxes, and fees on these industries. Under Mastriano, Pennsylvania will drill and mine like it should, and Pennsylvania will prosper." Mastriano also stresses the need to slash regulations and reduce the time needed to review and process permits from state agencies, including a specific 45-day review period for oil and gas wells.

Republican U.S. Senate candidate Mehmet Oz's website highlights the importance of "Energy Independence" with the following summary position: "Pennsylvania is a leader in the production of natural gas and coal. The Biden Administration has launched an attack on the energy industry stifling domestic energy production and weakening the U.S. position in energy production. These attacks have resulted in skyrocketing gas and energy prices and made our current energy options less reliable. Dr. Oz will work to overturn these heavy-handed regulations that are hurting Pennsylvania jobs and our local communities."

Finally, his Democratic opponent, John Fetterman's campaign position on energy is summarized here: [LINK TO SITE](#), which includes this key statement related to natural gas and clean energy: "I believe that climate change is an existential threat, and we need to transition to clean energy as quickly as possible. But we must do it in a way that preserves the union way of life for the thousands of workers currently employed or supported by the natural gas industry in Pennsylvania and the communities where they live. We need to make sure that as we transition we honor and uphold the union way of life for workers across Pennsylvania, and create thousands of good-paying union jobs in clean energy in the process."



Turning to reports in the race for governor – the position with the greatest potential to impact Pennsylvania energy production - it has been noted that Shapiro has not committed to keeping Pennsylvania in the Regional Greenhouse Gas Initiative (RGGI), but also, as Attorney General, issued a report in 2020 claiming the state had “failed to protect citizens” with the emergence of shale development. The report included several proposals, including the establishment of unconventional well setbacks of 2,500 feet from any occupied building and increasing the Attorney General’s ability to pursue criminal charges for environmental crimes.

Mastriano has stated he will withdraw the state from RGGI, effective immediately, and proposes to lift the current leasing ban for oil and gas development on state land. He has also proposed to cap permit fees for oil and gas wells that could only be changed by legislation. Finally, Mastriano has pushed for “energy choice” policies that would prevent municipalities from banning the future use of energy sources such as natural gas.

State House and Senate Races

The visibility of the Gubernatorial and U.S. Senate races should not overshadow the continuing importance of electing candidates to the state legislature who recognize the importance of energy development in the Commonwealth and favor policies that encourage oil and natural gas production and transportation. PIOGA encourages members to review the positions of those candidates and consider reaching out to them to stress the importance of our industry to the state’s future and its economy.

This is especially important this year in the case of the state House of Representatives, where 44 members are either retiring or lost their primary races, and where five additional members are running for State Senate seats. Looking ahead, these new members will likely need to be educated about the challenges our industry faces, as well as the opportunities to grow energy production here.

The Facts

While overused and predictable, the expression “elections have consequences” rings true, and even more so with the current political environment in Harrisburg and Washington. PIOGA encourages members to be informed voters, and to “vote for energy” next month. Know as well that your association will be heavily engaged next year when a new governor and new members state legislature are sworn into office.



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Secure your Buyers' Guide listing or advertisement soon!

PIOGA is pleased to partner again with Strategic Value Media—a leading nationwide provider of print and digital media solutions for national, state, and local trade and membership associations—to produce the 2022 edition of PIOGA Buyers' Guide, the premier resource of relevant products and services for oil and gas professionals.

The Buyers' Guide is accessible through the PIOGA website at www.pioga.org and will be updated soon with new advertisements and updated information.

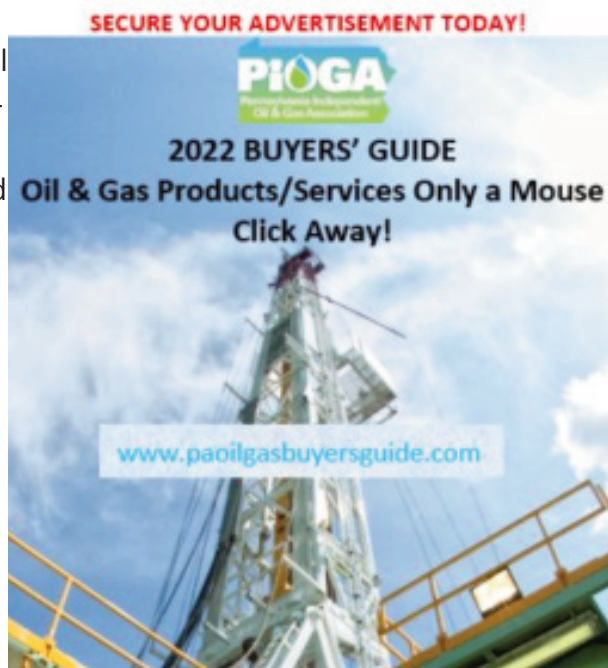
"For eight years now PIOGA's Buyers' Guide has served as a one-stop-shop for purchasing needed oil and gas products and services," said PIOGA's President & Executive Director Dan Weaver. "We get feedback from members often that they appreciate having this online resource that helps them link up with to the products and services they need."

PIOGA encourages members to utilize the services and products of other member companies.

All PIOGA Allies & Providers members receive a complimentary listing in the guide, with the PIOGA logo as part of the listing to indicate the company is a member. You may also contact Strategic Value Media to discuss other options of getting your business more visibility in the guide. Like the 2021 version, the 2022 edition of the Buyers' Guide will feature updated and expanded company and product listings, in addition to other valuable information relating to the oil and gas industry. The Buyers' Guide provides users with an efficient way to browse for goods and services and offers exceptional visibility by showcasing their products and services to a targeted, industry-specific buyer group.

We encourage you to take advantage of this exceptional opportunity to highlight your products and services in the Buyers' Guide. To learn more about advertising your products or services in the Buyers' Guide, email pioga-advertise@svmmmedia.com.

Note that a representative from Strategic Value Media may contact you by email or phone to inquire if you want to enhance your listing in the Buyers' Guide. Please know this is a legitimate call and that SVM is partnering with PIOGA to provide our members this resource for advertising your products and services.



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CNX and Newlight Announce Strategic Agreement to Capture Methane Emissions for Production of Aircarbon

This summer, CNX Resources Corporation and Newlight Technologies, Inc. announced that the companies have entered into a 15-year agreement to capture and utilize methane emissions for the production of Aircarbon®, a naturally occurring molecule also known as PHB that replaces plastic but is carbon-negative and biologically degrades in natural environments.

Under the agreement, CNX and Newlight will work together to capture waste methane from third party industrial activity that would typically be vented to atmosphere. CNX will gather, process, and deliver the methane through new and existing natural gas pipeline infrastructure, and Newlight will acquire contractual rights to a portion of the captured methane to support the production of Aircarbon, similar to how solar, wind, and renewable natural gas are delivered contractually through new and existing grid infrastructure. Combined, by using greenhouse gas as a resource to make a naturally-occurring material that replaces plastic, the agreement will enable the large-scale reduction of both carbon emissions and plastic pollution.

The strategic partnership, with CNX capturing methane gas to support Newlight's manufacturing needs, is expected to result in several manufacturing facilities in the Appalachian region and advance critical decarbonization

goals while boosting area economic activity, capital investment, and job growth. The initial 15-year contract aligns with CNX's commercial and capital allocation strategies in the decarbonization space and further solidifies Newlight's position as a leader in carbon capture technology.

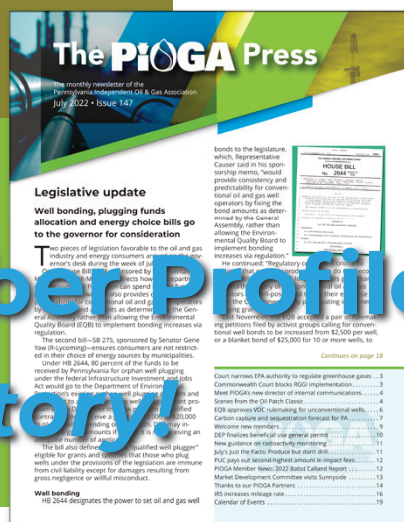
Newlight has recently announced plans to build a carbon capture-based manufacturing facility in partnership with Long Ridge Energy Terminal, a subsidiary of Fortress Transportation and Infrastructure Investors LLC in Hannibal, Ohio, and Newlight's contractual rights to methane emissions derived from Newlight's agreement with CNX will be used to create a portion of the Aircarbon being produced at the new Ohio facility. The greenhouse gas feedstock that will support production at the Ohio facility is also expected to include, over time, methane from anaerobic digestion of food and agricultural waste, as well as carbon dioxide from energy facilities and direct air capture.

Launching its first commercial-scale Aircarbon production facility in 2020, today Newlight's customers and partners include consumer brands such as Shake Shack, Nike, Target, H&M, Ben and Jerry's, Sumitomo, U.S. Foods, and Sysco.

Read the full article: Newlight and CNX Announce Strategic Agreement to Capture Methane Emissions for Production of Aircarbon

<https://investors.cnx.com/news-releases/2022/07-14-2022-114517625>

PIOGA Member Profile: Share Your Story



Welcome to PIOGA! We would like to offer you the opportunity to introduce yourself to other members via our monthly newsletter, *The PIOGA Press*. The PIOGA Profile section of the newsletter gives members a chance to share information about their company and the products and services they offer to others in Pennsylvania's oil and natural gas industry. We encourage you to take advantage of this free member service.

PIOGA Profile submission guidelines

- Include a brief history of your company. When and where was the company founded, and by whom? Is the company new to the oil and gas industry in general or to Pennsylvania?
- Describe the products and services you offer specifically for the oil and gas industry. Do you have a product in particular that sets your company apart from the competition, or a new product you would like to highlight?
- If applicable, tell how the business has been positively impacted by Pennsylvania's oil and gas industry? Have you expanded, added employees or opened new locations?
- Include a website address and/or phone for readers to use.
- Your submission may be a maximum of 400-450 words and should be provided as a Word document. Please use minimal formatting—bold and italic fonts are fine, as are bulleted or numbered lists. Your submission is subject to editing for length, clarity and appropriateness.
- Include your company logo or a photo. Images should be high-resolution (300 dots/pixels per inch or higher) and in any common graphics format. Please include identifications for any people or products in a photo. Send image files separately, not embedded in your document.
- All material should be emailed to **Meghan Keely, PIOGA Director of Internal Communications, at meghan@pioga.org**. Your submission will be confirmed on receipt, and we will use submissions in the order in which they are received. This is a free service to our member companies and publishing dates are at the discretion of PIOGA. If you have questions or want to follow up on a submission, email Meghan or call 814-671-2484.

Interested in submitting articles, news releases or advertising for *The PIOGA Press*? Contact Meghan Keely at the email address or phone number shown above.

The Inflation Reduction Act Bolsters Efforts at the Federal Level to Tackle Climate Change and Promote Clean Energy Solutions

Authored by Jim Curry (Managing Shareholder, Washington, DC Office), Sean McGovern (Shareholder), Gina Falaschi (Associate) and Varun Shekar (Associate). Article Printed on Babst Calland website August 17, 2022.

On August 16, 2022, President Joe Biden signed the Inflation Reduction Act (the Act) into law, calling it “one of the most significant laws in our history.” The United States House of Representatives passed the Act on August 12 along party lines. This vote followed the Senate’s August 7 passage of the bill, also along party lines, with Vice President Kamala Harris casting the tiebreaking vote. In addition to \$369 billion in energy security and climate investments, the bill also includes \$64 billion to expand Affordable Care Act subsidies for two years and various tax measures, including a corporate alternative minimum tax of 15% and \$80 billion to increase enforcement efforts at the Internal Revenue Service (IRS).

The vast majority of the \$369 billion allocated for energy security and climate investments in the Act comes in the form of tax credits. The biggest portion of these is for clean energy tax credits (\$161 billion). Some of these are modifications or extensions through 2024 of existing tax credits, such as electricity production from renewable resources. In particular, the current Section 45 production tax credit would be enhanced for renewable electricity production projects using domestic steel and other components. The Act also includes significant tax credits for carbon capture and sequestration (CCS) and clean energy production. The Act extends and increases the tax credit under Section 45Q of the IRS code for CCS, creates a new tax credit under Section 45V for the production of clean hydrogen (up to \$0.60 per kg, depending on the GHG emissions associated with production), and creates a new tax credit under Section 45U for production of zero-emission nuclear power. The Act also establishes a new technology-neutral tax credit under Section 45Y for facilities producing electricity with net-zero-GHG emissions, placed in service after December 2024.

The Act further allocates substantial funding for clean energy manufacturing tax credits. This includes the manufacture of both clean energy equipment (e.g., the production of domestic manufacture of solar panels, wind turbines, batteries, and critical mineral processing equipment) as well as for the construction of clean technology manufacturing facilities.

Regarding air and greenhouse gas emissions, the Act appropriates funding to support EPA regulatory programs targeting hydrofluorocarbons (HFCs), as well as reductions of other greenhouse gases (GHGs) under Section 115 of the Clean Air Act (CAA) (relating to international air pollution). The Act would also create the “Greenhouse Gas Reduction Fund” to provide grants to states, local agencies, and tribal authorities for deployment of zero-emission technologies. In addition, the Act appropriates funding for numerous grant programs administered by EPA, including, among others, air toxics fence-line air monitoring, and expanding criteria pollutant monitoring networks. These programs could eventually have significant impacts on the stringency of regulation under the CAA potentially through revisions to National Ambient Air Quality Standards or National Emission Standards for Hazardous Air Pollutants through residual risk and technology reviews.

The Act further appropriates nearly \$1 billion to EPA for facilitating regulatory programs associated with methane emissions monitoring and reducing methane emissions from petroleum and natural gas systems. In addition, the Act establishes a fee on excess waste methane emissions over a defined threshold based on the amount of natural gas or oil set to sail from a facility. The fee is assessed at a \$900 per ton rate, applicable to many industries, including oil and gas production, gas processing and compression, underground natural gas storage, and onshore gas gathering and transmission. This fee increases by \$300 in subsequent years.

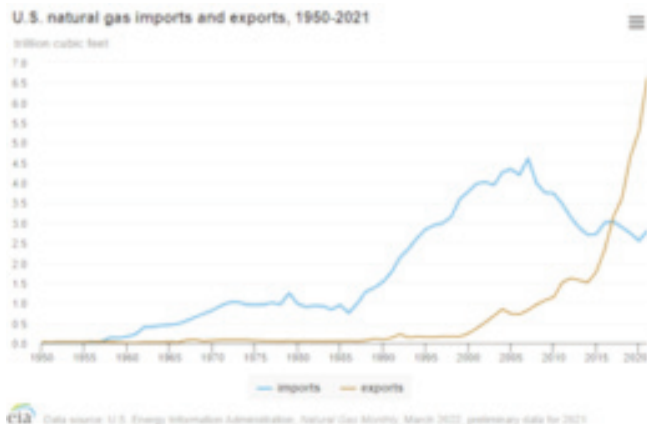
Clean vehicle funding includes \$1 billion to the EPA to award grants and rebates for medium and heavy-duty vehicles with zero-emission vehicles and \$60 million in funding to EPA for grants, rebates, and loans to reduce diesel emissions in low-income and disadvantaged communities. The Act also provides \$2 billion to retool existing auto manufacturing facilities to manufacture clean vehicles.

Continues on page 23

Prices *Continued from page 9*

By 2011, the activity in Appalachia was already being characterized by a 'boom.' The shale phenomenon was in full swing and almost suddenly, the US was oversupplied in some regions (Appalachia, North Dakota, Louisiana, etc.). Gas prices plummeted to their lowest levels in history, adjusted for inflation.

By 2021, natural gas imports were 7.29 Bcf/d. The US stopped importing LNG and after ten years became the largest exporter of LNG worldwide.



Market Fundamentals Affecting Benchmarks

We already understand the basics when it comes to pricing – very hot or very cold, less available delivered supplies, low storage levels or even yes, starting a war and well, prices shoot up. And when all of these fundamentals come together at the same time, the market explodes. In no specific order, let's look at these fundamentals today.

Supply balance

Remember the Groningen gas field mentioned earlier? Once the largest gas field in Europe and the major natural gas source in the Netherlands, the Groningen field has reduced production after drilling activities were seen to cause earthquakes. Since then, production in the Netherlands has been in decline, already reaching a record low last year in 2021. This directly affects pricing at TTF, which is running a short position in a rising market. Europe now relies on LNG imports and pipeline inflow to balance this position.

Here in the US the situation is quite different. The United States has an abundance of natural gas. However, the movement to reduce carbon emissions has directly impacted the ability to obtain new pipeline construction permits and to expand existing ones that supply growing cities. The inability to deliver supply to key demand areas has created shortages at worst and very tight supply/demand ratios at best, both that con-

tribute to higher natural gas prices.

A twist to this is that the Freeport LNG Export Terminal in Texas had an explosion that shut down the plant in early June. More than 2 Bcf of supply marked for liquefaction and export to Europe had to be diverted, helping US storage operators to catch up but also stranding gas in some places.

Weather

In the US, on July 9, 2021, Death Valley National Park's Furnace Creek Visitor Center hit an astonishing 130.0 degrees Fahrenheit (54.4°C), beating the previous all-time world record for hottest reliably measured temperature of 129.9 degrees Fahrenheit (54.4°C), set there on August 16, 2020. Much of the country last year experienced high temperatures. And this year is more of the same, with multiple heat waves across the majority of the nation.

In Europe, heatwaves have affected parts of Europe from June through August this year. 47.0 °C (116.6 °F) was recorded in Portugal on July 14th. Temps reached 40–43 °C (104–109 °F) in parts of Europe in June, with several records broken.

This summer, a second more severe heatwave occurred in mid-July, extending north to the UK where temps surpassed 40 °C (104 °F). A third heatwave began last month, and parts of France and Spain were expected to reach 38 °C (100 °F). This is supposed to continue into September.

These high temperatures in Europe AND the US are forcing utilities to burn more and more natural gas for the cooling load, driving up prices regionally and at the benchmarks. And the heatwaves also include widespread droughts across Europe, reducing the ability to deliver coal via river barge to many cities for coal-fired generation and cooling.

Storage

Working gas in storage in Europe started the year at a significant deficit as compared with other recent years. The chart below for Europe from CelciusEnergy.net, clearly shows inventories were well-below the five-year average. The same can be said for the US. When traders focus normally on storage fill at a time when record-breaking heat waves are pulling supply away to generation, prices must rise against a shortfall in supply.

War

Europe is working hard to fill storage ahead of winter and also seek to avoid industry shutdowns and power

rationing as deliveries from major supplier Russia have dwindled in the wake of the war in Ukraine. Pipeline flows are now only a fraction of what they were last year, with the Nord Stream 1 pipeline operating at 20% of its capacity. This is impacting storage, yet storage is getting filled, as countries switch from gas to coal or oil and increase imports of LNG.

Europe’s storage surpassed 70% at the start of August, in line with their average over the 2017-2021 period, according to data from Gas Infrastructure Europe (GIE). They are now 8% below the EU’s target to refill storage by Nov. 1 with the war still raging.

Germany has been hardest hit by Russia’s reduced gas flows. Germany is home to the largest storage capacities in the EU, and has set a higher goal for itself, targeting a 95% level by November. Being 80% full by August is an accomplishment under these conditions and prices will soften for it.

US LNG Export Facilities and Trans-Ocean Shippers Reap the Benefits

When I was a teenager, the guy in our gang who had a car was leading a charmed life. Got an LNG tanker? LNG shipping charges are through the roof, as Europe’s demand for natural gas remains very strong.

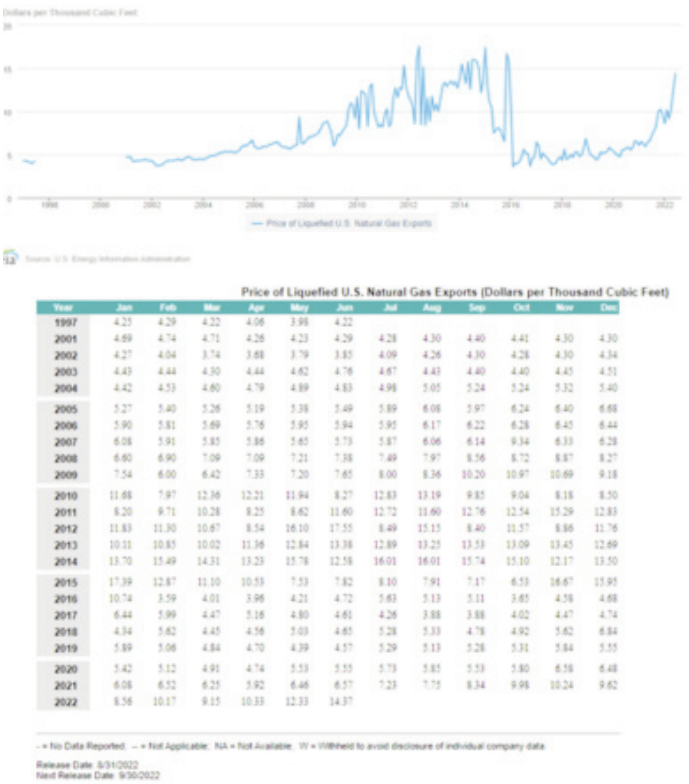
The ability to be part of the supply chain to Europe means participating in shipping more than 12 Bcf every day via LNG tanker ships. If you can get your production to the LNG terminals on the Gulf Coast or to Cove Point in Maryland, then you may enjoy some of the European uplift after sharing in transport costs across the ocean.

October settle for Gulf Coast LNG Export, as published by the CME Group, was \$65.86. November is now quoted at \$52.46. These prices will come off due to Europe achieving some storage targets, yet they remain quite high.

A Few Miles of Pipeline and Three Thousand Miles of Ocean

Natural gas is trading at more than \$50 per dekatherm in Europe. Gulf Coast shippers seem to be getting some of that. Henry Hub dipped to just below \$9 per dt on September 1st. The difference, more than \$40, is getting to the LNG terminal and boarding the LNG tanker that can cross the ocean.

The chart and table below from the EIA show that supply for export fetches a higher price than Henry Hub. For example, in June, when Henry Hub was trading in the \$8 to \$9 range, exports were priced at \$14.



The difference between Henry and an export terminal is access to capacity and a sales agreement with a shipper. Next, we will finally see how pipeline capacity is the fundamental necessity to be a market player and take the first step towards participating in export prices.

Appalachian Producers and Finding Routes to Export Terminals

We have unwound this riddle as to why prices are unusually high in Appalachia by walking the story back from delivery in Europe and shipping across the Atlantic to the liquefaction terminals on the coasts. And we can expect more export terminals to come into the planning stages so that developers can take advantage of higher prices in Europe.

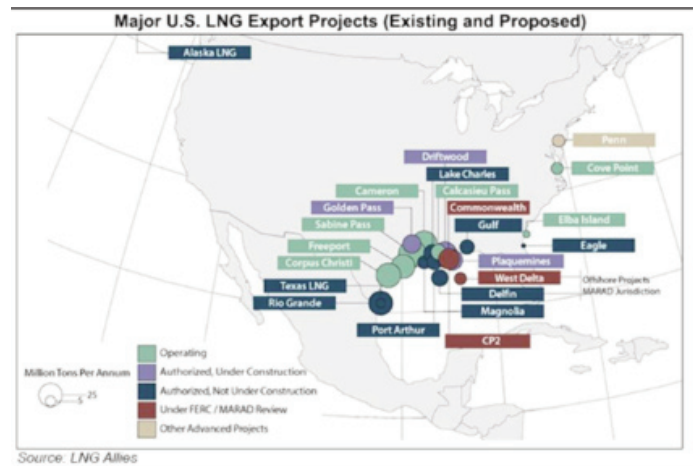
As only one example, an East Coast LNG export terminal project that would tap into vast amounts of feed gas from the Appalachian Basin is aiming to pre-file with federal regulators by the end of the year and reach a final investment decision by 2024.

The 7.2 million metric tons/year facility could be located at a yet-to-be-determined site along the Delaware River near Philadelphia and could produce the first LNG by 2028. Penn America Energy Holdings LLC is one of many visionary organizations which realize that the \$6 billion-plus Penn LNG project faces an uphill

Continues on page 22

Prices *Continued from page 21*

battle in the Northeast, where environmental opposition has put a stop to most energy infrastructure projects.



Finally – the Effect on TCO Pool and South Point

There is only so much liquefaction capacity on the coasts. And yes, Freeport LNG will start back up in a matter of weeks. That will increase capacity by 2.1 Bcf per day, or a 17% increase in export potential. Additionally, there is a limit to the amount of interstate capacity available from Appalachia to Cove Point and the Gulf Coast.

Basis values differ between TCO Pool on Columbia Gas Transmission (TCO) and South Point (EGSP) on Eastern Gas Transmission. Much of this difference, which yields substantially different values to production, is attributed to the ability to get production to an LNG terminal. Shippers who have leased capacity across Columbia to TCO Pool, and subsequently onto Columbia Gulf, have a straight shot to the Gulf Coast to take advantage of higher LNG prices. For this reason, TCO Pool fetches a better price – or a less negative financial basis number – than South Point.

Shippers on Texas Eastern also enjoy a path to the Gulf Coast. This path often includes multiple pipeline charges. Nevertheless, the path is to the Gulf Coast and LNG prices that are higher than Henry. The final effect is that some production earmarked for storage will be exported. And a lot of supply that would go into storage is being diverted to gas-fired generation.

New pipeline construction and current pipeline expansion may be needed to accommodate the investment in LNG export facilities to satisfy the growing global appetite for American natural gas. The pipeline constraint component makes for low prices on one end

and high prices on the other.

In conclusion, Appalachian supply is competing for a variety of key demand components. Production declines, global demand, extreme weather, and pipeline constraints all contribute to this explosive price support. These high levels are right at a time when demand is increased in historical magnitude and supply is interrupted by war on the other side of Europe. ■



Author- David Marks, PA Energy Fuels LLC. and Chair of the PIOGA Market Development Committee.

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Inflation Reduction Act *Continued from page 19*

A focus area of the Act is environmental justice. The Act appropriates nearly \$3 billion in block grants to community-based nonprofit organizations in disadvantaged communities for various climate-based projects, including but not limited to investing in low- and zero-emission technologies, community-based air pollution monitoring, and mitigating risks from climate change. In addition, the Act makes further tax credits available for qualifying electricity generating projects placed in environmental justice communities. The Act's expansion of criteria pollutant monitoring networks is also designed to focus on low income and disadvantaged communities.

The Act also reinstates a Superfund tax on certain crude oil received at U.S. refineries and imported petroleum products, amending the tax from 9.7% to 16.4%, and indexing the tax for inflation.

The Act is the latest in a series of developments at the federal level that both enhance and curtail climate change efforts. The passage of the Act comes in the wake of the Supreme Court's June 30th ruling in *West Virginia v. EPA*, which held that the EPA did not have authority to impose a regulatory scheme that requires shifting power generation from coal to natural gas and renewable or other zero-emitting sources. The Court's ruling held that Congress would have needed to grant this authority specifically to an agency. Here, Congress is taking a more direct approach at climate action and renewables at the legislative level with tax credits, direct funding, and other incentives for clean energy.

The Act also joins the SEC's March 2022 proposed rule, *The Enhancement and Standardization of Climate-Related Disclosures for Investors*, which includes a new subpart to Regulation S-K of the SEC's regulations (17 C.F.R. Part 229) that would require a registrant to disclose climate-related risk information in its registration statements and periodic reports. 87 Fed. Reg. 21334. These disclosures would include material effects of climate-related risk on the company, the company's process for identifying and managing climate-related risk, information regarding publicly set climate-related targets or goals, and the company's greenhouse gas emissions. *Id.* While the stated purpose of the proposed rule is to provide standardized and material information regarding climate risks to investors, in practice, the proposed rule will incentivize greenhouse gas emissions reductions. The SEC's proposed rule and the Act both highlight the emerging trend towards an approach to climate change outside of the confines of EPA regulation, where such efforts have historically been undertaken. This approach is consistent with President Biden's "Whole-of-Government Approach" to the climate crisis espoused in the first days of his presidency in Executive Order 14008 *Tackling the Climate Crisis at Home and Abroad*. 86 Fed. Reg. 7619.

While the Act is a significant step towards funding climate change and clean energy efforts at the federal level, the long-term implications of this legislation are still unclear. The programs authorized and funded by this legislation will be developed by the various federal agencies over the coming years, and Babst Calland will continue to monitor these developments. ■

2022-2023 Membership Directories



PIOGA is pleased to announce that the 2022-2023 Membership Directory have been shipped. The hardcopy directory, published once a year, is the main guide for our association members seeking to contact one another and a resource for companies looking to find services or products from other PIOGA member companies. Please be sure to visit the Select Suppliers section of the directory to locate companies that are eager to support your operations.

One copy of the directory has been provided to each member company. If your company has multiple locations listed, one additional copy has been provided to those locations also. If you would like to request additional directories, contact Deana McMahan at deana@pioga.org. There will be a \$15 charge per directory to cover shipping and administrative fees. Additionally, an electronic version of the directory is available in the "Members Only" area of the PIOGA website.

Thank you for your support and membership in PIOGA. We look forward to our continued work together on behalf of the oil and gas industry here in Pennsylvania.

PIOGA highlighted at development council meeting

The below article and photo were published September 15, 2022 in The Punxsutawney Spirit. Authored by Larry McGuire



Members of the Jefferson County Development Council and their guests learned a lot about the Pennsylvania Independent Oil & Gas Association (PIOGA), the state's largest and oldest oil and gas trade association, during their meeting at the Punxsutawney Country Club Thursday morning. (September 15, 2022)

Jamie Lefever, JCDC executive director, welcomed everyone to the breakfast buffet.

Scott North, Jefferson County commissioner, recognized the veterans in attendance, while Jeff Pisarcik, commissioner, led the pledge of allegiance, and commissioner Herb Bullers, the prayer.

The keynote speaker was Dan Weaver, president and executive director of PIOGA, which represents the full industry from conventional to shale and beyond.

North asked Weaver if deep well drilling ruined drilling for shallow wells.

Weaver said that it definitely didn't help, as the drilling is practically non-existent.

"Conventional gas wells in Jefferson County, how many people have been near them or have seen one recently?" Weaver asked. "The conventional gas well has little pipe that comes out of the ground, and you might have a tank near there and that's it."

He said you can pass by them all the time and not even notice.

Weaver discussed the price of gas at the pump and how it has been dropping, but said you never know when the price might start to climb again.

Weaver answered many more questions, and the meeting adjourned as most everyone went outside and played a round of golf at the Punxsutawney Country Club course.

Pictured above: Members of the Jefferson County Development Council held their breakfast meeting at the Punxsutawney Country Club on Thursday: (front, from left) Sal Cassano, National Fuel Gas; Drew Nedzinski, Mid Penn Bank; Chuck Evanhoff, First Energy; (back) Scott North and Jeff Pisarcik, county commissioners; Daniel J. Weaver, PIOGA; Jamie Lefever, executive director, JCDC; Herb Bullers, commission chair; and Theresa Nightingale, Cresco Labs.



FALL PROTECTION, PREVENTION & RESCUE TRAINING SEMINAR

PIOGA's Safety Committee is pleased to host this training in conjunction with our partners Diversified Energy Company & RJR Safety Inc.

This PIOGATech will cover the ABCs of fall protection that include information on Leading Edge requirements, fall rescue, dual-purpose equipment for fall rescue and confined space rescue, and truck to demonstrate drop tests on various equipment. A discussion will be held on developing a fall rescue plan, what training is needed, checklists, emergency action planning, emergency treatment, and the importance of pre-planning for a rescue.

Event/Registration Information

Event Date: November 2, 2022 (Deadline to Register October 26, 2022)

Location: The Chadwick 10545 Perry Highway Wexford, Pa 15090

Time: 9 am - 4 pm

For more information and to register visit PIOGA's Online Event Page: <https://pioga.org/events/pioga-events/>



PIOGA BIRDS & BBQ CLAY SHOOT

Join us for our 2nd Annual Birds & BBQ on October 27 from 9 am - 3 pm at the West Penn Sportsmen's Club.

The Clay Shoot will take place at a first class sporting clay course. This course will have 18 stations and the course travels along the natural terrain of the club's grounds. They feature 30 different clay target presentations that simulate field shooting of game and has a fully automated course that utilizes the Long Range TAG System. One-hundred (100) sporting clays and 12-gage ammo is included in the registration fee.

Only 12-gage ammo is permitted at the course. Please bring your own 12-gage shotgun. If you are in need of equipment, guns will be available at each stand at no extra cost.

Deadline for registration is October 20, 2022. Sponsorships are available - click on the following link for registration/information on sponsorships fees/detail: <https://pioga.org/event/birds-bbq-clay-shoot/>

Any members with additional questions about the event should contact Debbie Oyler at debbie@pioga.org or call 724-933-7306 ext. 22.

Event Details:

Date: October 27, 2022

Time: 9 am - 3 pm

Venue: West Penn Sportsmen's Club

5730 Saltsburg Rd. Murrysville, Pa 15668

<https://www.wpscclays.org/>



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PIOGA's Annual Tax & Accounting Seminar

for the Oil & Gas Industry

The PIOGA Tax Committee is pleased to partner again with BAKER TILLY, US (formerly Arnett Carbis Toothman), and once again joining with GO-WV and SOOGA to host a special virtual oil and gas tax and accounting seminar on November 15.

Who Should Attend: Oil and gas investors, operators, royalty owners, service companies and accounting and legal professionals.

Program Description: This year's presentation will include an update on Tax Reform and updates on not only various federal, state and local taxes, but will approach each area to explain how oil and gas investors, operators, royalty owners, service companies and professionals should maximize tax and economic benefits. Planning for current and future opportunities and challenges will be emphasized. Baker Tilly presenters will utilize their years of experience in the oil and gas industry to explain key tax benefits as well as standard tax issues that everyone in the oil and gas industry should be aware of and plan for.

Learning Objectives: After completion of the course, participants will be able to address current accounting and tax issues in the oil and gas industry for themselves and their companies, have increased awareness of IT security issues and maximize their tax benefits.

Baker Tilly US is registered with the National Association of State Boards of Accountancy (NASBA) as a sponsor of continuing professional education on the National Registry of CPE Sponsors. State boards of accountancy have final authority on the acceptance of individual courses for CPE credit.

Recommended Field of Study: Accounting (1.0), Taxes (3.0), Information Technology (1.0), Specialized Knowledge (2.0)

Instructors: Marlin Witt, Partner, CPA, CFP, CGMA; Bill Phillips, Partner Emeritus, CPA; Charlene Tenney, Supervisor, Business Outsourcing; Chad Parker, CPA; Jonathan Jones, CPA; Benjamin Ellis, Director, Technology.

Attendees are eligible for 7.0 CPE credits. CLE credits are available by self-reporting to the appropriate state bar association. Time will be allotted for questions during the seminar and the presenters will be available for questions and consultations by phone or email after the seminar.

Registration is a two-step process:

- 1 – Register and pay using this link: <https://gowv.com/events/2022-tax-seminar/>
- 2 – Connecting to the event: Prior to the seminar, you will receive an email with instructions for connecting to the event (via Cvent). If you do not receive this email, please check your spam folder or contact Janet Gould at janet.gould@bakertilly.com or 304-471-2288.

Registration Requirements:

Participants may register and pay by using the link included above. You will then receive an email with the Webex Webinar connection information.

For those needing CPE credits, expect to answer random polling questions as a method of attendance verification. Note that you must answer at least 75 percent of the polling questions in order to receive full credit for your participation; partial credit will not be awarded.

The registration deadline is November 11, 2022; please RSVP by 5:00 p.m.

For more event and registration information: <https://pioga.org/event/annual-tax-accounting-seminar-for-the-oil-gas-industry/> or email Dena McMahan at deana@pioga.org

Thanks to our 2022 PIOGA Partners

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Meetings Partners



Committee Partners



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Executive Partners



Golf Partners



Clay Shoot Partner



Civil & Environmental
Consultants, Inc.

Driller Partner



Learn about the PIOGA Partners program:
pioga.org/publication_file/2022_PIOGA_Partners_flyer.pdf

Oil & Gas Dashboard

Sources

American Refining Group:
www.amref.com/Crude-Prices-New.aspx
 Ergon Oil Purchasing: www.ergon.com/crudeoil
 Gas futures: quotes.ino.com/exchanges/?r=NYMEX_NG
 Baker Hughes rig count: bakerhughesrig-count.gcs-web.com/na-rig-count
 NYMEX strip chart: Mid American Natural Resources
 Basis futures values: BHE Eastern Energy Field Services

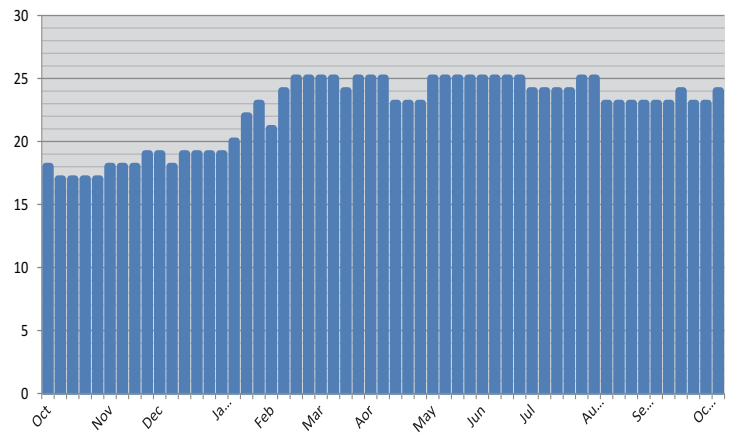
Penn Grade Crude Oil Prices



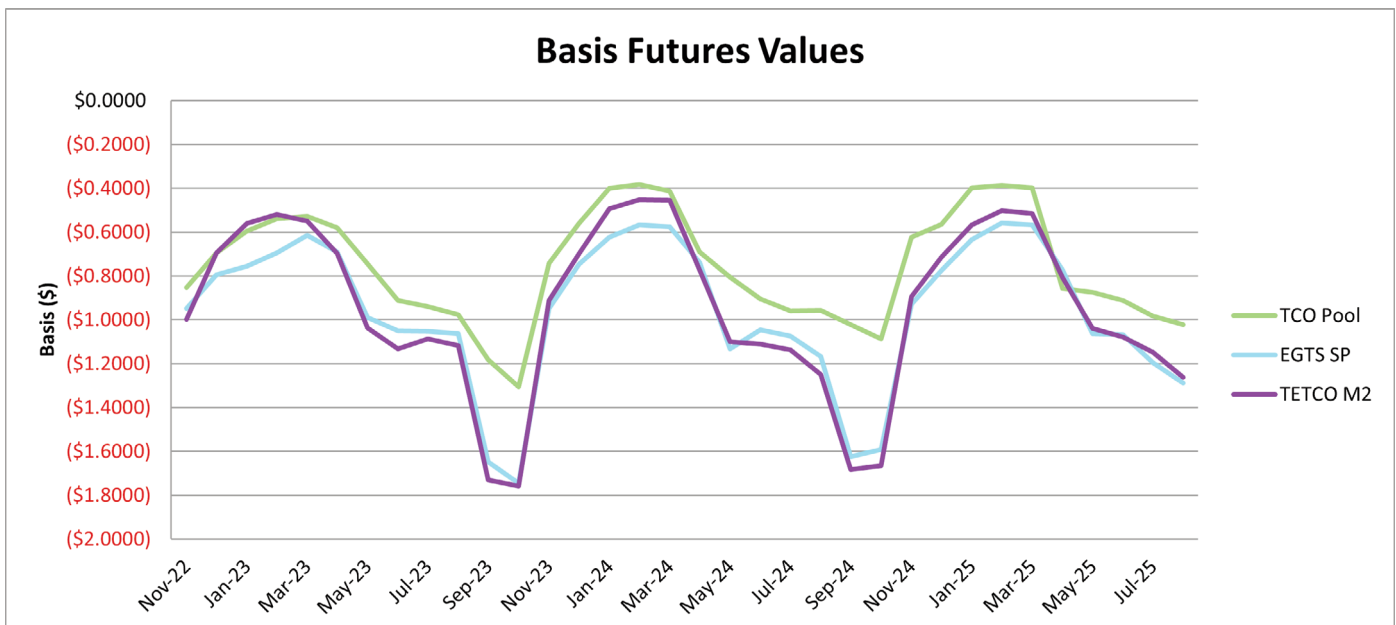
Natural Gas Futures Closing Prices

Month	Price
October	\$8.039
November	8.118
December	8.300
January 2023	8.372
February	8.077
March	6.910
April	5.535
May	5.406
June	5.445
July	5.502
August	5.502
September	5.507
October	6.684

Pennsylvania Rig Count



Basis Futures Values



Northeast Pricing Report — October 2022

Both front month and the full trading term pricing were down for every location. The same was true for the rolling one-year term except for Transco Leidy, which had sizable gains. All trading points had significant losses for the front month as weather and economic unsteadiness took hold. Algonquin and TETCO M3 took the biggest beating dropping \$1.01 and \$0.99 per MMBtu. Dominion South, Transco Z6 and Transco Leidy dropped between \$0.87 and \$0.86 per MMBtu. Interesting that both supply and demand areas had similar reactions. For the rolling one-year term, Algonquin decreased \$2.59 per MMBtu. TETCO M3 and Transco Z6 declined \$0.68 and \$0.49 per MMBtu respectively, while Transco Leidy had an increase of \$0.52 per MMBtu. For the full trading term, again Algonquin decreased the most at \$0.65 per MMBtu. All other points saw minimal change between \$0.07 and \$0.02 per MMBtu.

TETCO M3 to Transco Z6 increased by \$0.12 per MMBtu, being the only route, which improved last month. Transco Leidy to Algonquin and Dominion to Algonquin fell the most at \$0.15 and \$0.14 per MMBtu, while Transco Leidy to Algonquin declined \$0.13 per MMBtu. Transco Leidy to Transco Z6 decreased only \$0.01 per MMBtu.

Transportation Value Market Indicator

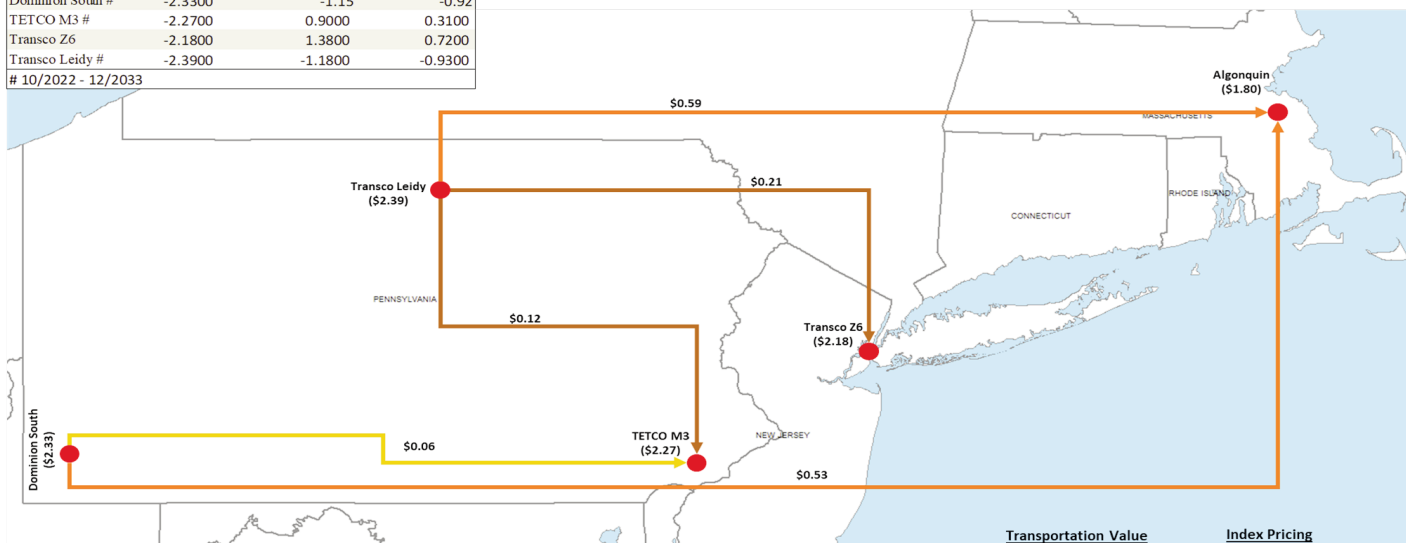


Provided by Bertison-George, LLC

www.bertison-george.com

Location	Natural Gas Basis Future Pricing		
	Pricing Term		
	10/2022	10/2022-9/2023	10/2022-12/2027
Algonquin	-1.8000	6.98	4.8400
Dominion South #	-2.3300	-1.15	-0.92
TETCO M3 #	-2.2700	0.9000	0.3100
Transco Z6	-2.1800	1.3800	0.7200
Transco Leidy #	-2.3900	-1.1800	-0.9300

10/2022 - 12/2033



Pricing as of Sept. 28, 2022, Future contract only; Source ICE End of Day Report

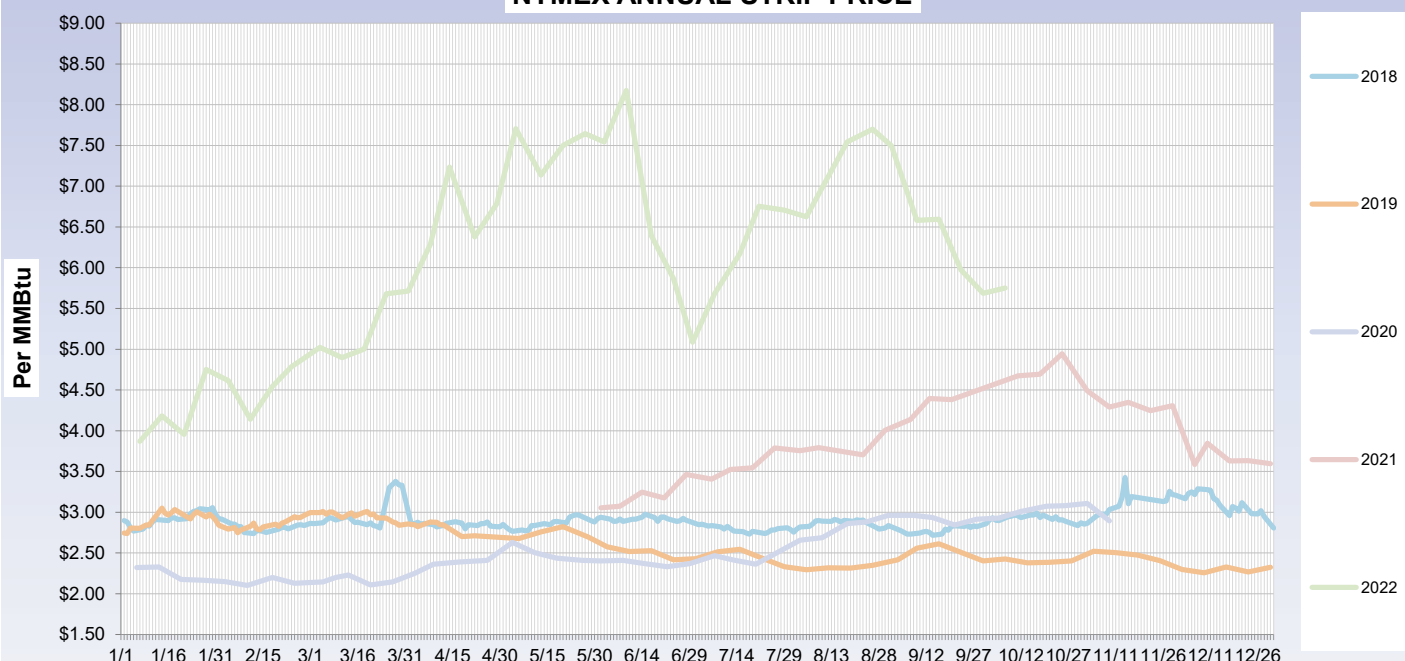
Transportation Value

High
Middle
Low

Index Pricing

Increasing
Decreasing

NYMEX ANNUAL STRIP PRICE



Spud Report: August



The data show below comes from the Department of Environmental Protection. A variety of interactive reports are

OPERATOR	WELLS	SPUD	API #	COUNTY	MUNICIPALITY
Anderson Energy SVC LLC *		9/29/2022	123-48669	Warren	Pleasant Twp
Bull Run Resources LLC *		9/9/2022	123-48695	Warren	Cherry Grove
Twp					
Cameron Energy Company *		9/13/2022	053-30987	Forest	Kingsley Twp
Chesapeake Appalachia LLC	9	9/8/2022	081-21950	Lycoming	McNett Twp
		9/8/2022	081-21952	Lycoming	McNett Twp
		9/8/2022	081-21951	Lycoming	McNett Twp
		9/10/2022	113-20451	Sullivan	Elkland Twp
		9/10/2022	113-20452	Sullivan	Elkland Twp
		9/29/2022	015-23758	Bradford	Wyalusing Twp
		9/29/2022	015-23761	Bradford	Wyalusing Twp
		9/29/2022	015-23759	Bradford	Wyalusing Twp
		9/29/2022	015-23760	Bradford	Wyalusing Twp
Coterra Energy Inc	12	9/9/2022	115-23019	Susquehanna	Brooklyn Twp
		9/9/2022	115-23020	Susquehanna	Brooklyn Twp
		9/9/2022	115-23021	Susquehanna	Brooklyn Twp
		9/9/2022	115-23022	Susquehanna	Brooklyn Twp
		9/9/2022	115-23023	Susquehanna	Brooklyn Twp
		9/9/2022	115-23024	Susquehanna	Brooklyn Twp
		9/9/2022	115-23025	Susquehanna	Brooklyn Twp
		9/9/2022	115-23026	Susquehanna	Brooklyn Twp
		9/26/2022	115-22978	Susquehanna	Gibson Twp
		9/26/2022	115-22979	Susquehanna	Gibson Twp
		9/26/2022	115-22980	Susquehanna	Gibson Twp
		9/26/2022	115-22981	Susquehanna	Gibson Twp
Curtis Oil Inc. *		9/12/2022	053-30976	Forest	Howe Twp
Inflection Energy (PA) LLC	2	9/26/2022	081-21949	Lycoming	Gamble Twp
		9/26/2022	081-21948	Lycoming	Gamble Twp
McCool John E *		9/5/2022	123-48598	Warren	Sheffield Twp
Minard Run Oil Co	2	9/20/2022	053-31002	Forest	Kingsley Twp
		9/26/2022	053-31003	Forest	Kingsley Twp
MSL Oil & Gas Corp *	6	9/2/2022	083-57382	McKean	Hamilton Twp
		9/8/2022	083-57384	McKean	Hamilton Twp
		9/13/2022	083-57385	McKean	Hamilton Twp
		9/16/2022	083-57373	McKean	Hamilton Twp
		9/23/2022	083-57370	McKean	Hamilton Twp
		9/28/2022	083-57372	McKean	Hamilton Twp
PennEnergy Resources	8	9/22/2022	019-22926	Butler	Forward Twp
		9/22/2022	019-22920	Butler	Forward Twp
		9/22/2022	019-22921	Butler	Forward Twp
		9/22/2022	019-22922	Butler	Forward Twp
		9/22/2022	019-22923	Butler	Forward Twp
		9/22/2022	019-22924	Butler	Forward Twp
		9/22/2022	019-22927	Butler	Forward Twp
		9/22/2022	019-22925	Butler	Forward Twp
Pennhills Resources LLC *	4	9/6/2022	083-57422	McKean	Lafayette Twp
		9/12/2022	083-57423	McKean	Lafayette Twp
		9/16/2022	083-57424	McKean	Lafayette Twp
		9/22/2022	083-57425	McKean	Lafayette Twp

available by going to the Office of Oil and Gas Management page at www.dep.pa.gov and choosing Report from the menu. The table is sorted by operator and lists the total wells reported as drilled last month. **Spud** is the date drilling began at a well site. The **API number** is the drilling permit number issued to the well operator. An asterisk (*) after the API number indicates a conventional well.

OPERATOR	WELLS	SPUD	API #	COUNTY	MUNICIPALITY
Pierce & Petersen	3	9/22/2022	123-48664	Warren	Mead Twp
		9/27/2022	123-48666	Warren	Mead Twp
		9/30/2022	123-48667	Warren	Mead Twp
Range Resources	3	9/8/2022	003-22629	Allegheny	Frazer Twp
		9/8/2022	003-22630	Allegheny	Frazer Twp
		9/8/2022	003-22631	Allegheny	Frazer Twp
Weldbank Energy Corp *	3	9/3/2022	123-48575	Warren	Mead Twp
		9/6/2022	123-48576	Warren	Mead Twp
		9/9/2022	123-48577	Warren	Mead Twp
Wilmoth Interests Inc *		9/13/2022	123-48645	Warren	Sheffield Twp

	Sept.	Aug	July	June	May	April
Total wells	58	91	96	62	65	69
Unconventional Gas	34	60	73	44	40	57
Conventional Gas	0	0	0	0	0	0
Oil	19	22	20	17	17	12
Combination Oil/Gas	5	9	3	1	8	0

New PIOGA members — welcome!

Cynthia Rupert

3756 State Route 981 Saltsburg, Pa 15681
Royalty Owner

Mobile Air & Power Rentals

Dan Mulligan
1029 Blackberry Drive Sewickley, Pa 15143
Allies & Provider

Wood Drilling, LLC

Mr. Barbara Spangler
143 Run Around Road Kittanning, Pa 16201
Producer

PIOGA's online Career Center

Did you know that our website offers the ability for companies to post open positions? To help in your employee recruitment efforts, go to pioga.org and click on Careers.



Recruit a New Member

Earn a credit equal to 10% of the dues of every new PIOGA member you bring in, and use the credits toward reducing your own dues, event fees, advertising and more. Find out more by clicking "Join PIOGA" at www.pioqa.org and scrolling to the list of member benefits.

Calendar

PIOGA events

Information: www.pioga.org > PIOGA Events

Marcellus to Market (M2M) Conference

October 19, Hollywood Casino at The Meadows, Washington

PIOGATech: Water & Waste Management

October 26, Bella Sera, Canonsburg

Fall Clay Shoot (Birds & BBQ)

October 27, West Penn Sportsmen's Club, Murrysburg

PIOGATech: Fall Protection, Prevention & Rescue Training

November 2, The Chadwick, Wexford

Annual Oil & Gas Tax and Accounting Seminar

November 15, virtual event

PIOGATech: Air Quality Compliance

December 15, The Chadwick, Wexford

Mix, Mingle & Jingle Holiday Party

December 15, The Chadwick, Wexford

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Oil Region Office (Meghan Keely)

304 East Bissell Ave., Oil City, PA 16301
814-671-2484

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Other events

The Illinois Geological & the Society Illinois State Geological Survey - Annular Eastern Section AAPG Meeting

October 24 - 26, Champaign, IL

<https://conferences.illinois.edu/ESAAPG/location-accommodations.html>.

Marcellus Shale Coalition - Small Business Supply Chain Certification Training

October 26, Virtual

Registration information visit - <https://marcelluscoalition.org/>

Marcellus Shale Coalition - Oil & Gas Spill Remediation Training

November 17, Penn Stater Hotel and Conference Center - State College, Pa.

Registration information visit - <https://marcelluscoalition.org/>



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