

Issue 1, 2023

— Coal Energy —

FROM THE MINE TO THE UTILITY

2022 Miner's Memorial

WORLD NEWS

WCA Calls for Reason & Rationality

**Americans Focused on
Secure Economy**

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LETTER FROM THE PUBLISHER



Dear readers,

Welcome to Issue 1, 2023 of **Coal Energy**.

This edition contains our annual memorial dedication to honor the brave miners who passed away due to mining accidents in the coal industry. **Coal Energy**, along with our sponsors, would like all of us to take some time to remember these ten brave souls that lost their lives in 2022. Without these courageous miners, the coal industry would not exist. We are extremely thankful to our sponsors who have made this dedication possible.

Coal Energy remains proud to be the source journal for information about coal related associations in the industry. We currently provide information at your fingertips on different groups to benefit your companies' needs and targets. By providing information at a glance on each group, and including current member lists, your company can analyze the forums available to market, promote, and lobby for America's future regarding coal energy.

In every issue **Coal Energy** brings you a member list for each of the main coal organizations. Whilst your company may already be listed, please remember you can feature your company in the member spotlights section by emailing info@martonickpublications.com.

In this issue, we also take a look at America's Coal Associations' statement on NERC's 2022 Long Term Reliability Assessment. In our world news department, we see WCA's chairman calling for more reason and rationality amidst energy uncertainty.

Coal Energy also presents recent press releases at a glance for the previous quarter. From financial news and product releases, to grants and awards, please email us with any news that may be considered for publish in following issues. Please turn to page 12 to view this quarter's news.

Please visit our website, www.coalenergyonline.com, for current and prior editions of **Coal Energy**.

You can also like and share our Facebook page (www.facebook.com/coalenergyonline) created to network with the nations promoters of coal, suppliers of coal, and to serve as a public interface for the image of coal energy.

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possible. If your target market spans across to members of more than one coal association, then **Coal Energy** is the place for you to represent your company. Please contact our advertising sales representatives should you require additional information at info@martonickpublications.com.

And again, thank you for picking up, or clicking on, another edition of **Coal Energy**.

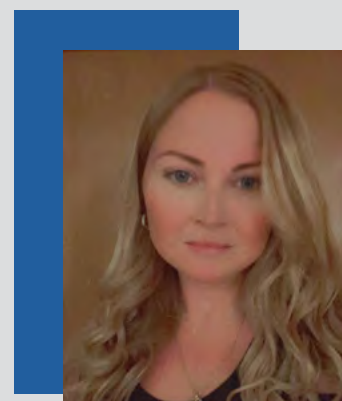
If you have any questions, editorial submissions, advertising interest or just comments about **Coal Energy** please feel free to email me directly at maria@martonickpublications.com.

Warmest regards,

Maria Martonick

President

Martonick Publications, Inc.



Association Comparisons



<https://www.nma.org>

THE NATIONAL MINING ASSOCIATION

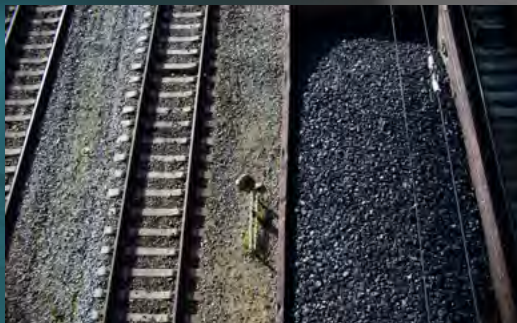
Mission:

NMA's mission is to build support for public policies that will help Americans fully and responsibly benefit from our abundant domestic coal and mineral resources.

Our objective is to engage in and influence the public process on the most significant and timely issues that impact mining's ability to safely and sustainably locate, permit, mine, transport and utilize the nation's vast resources.

NMA serves its membership by:

- Promoting the safe production and use of coal and mineral resources
- Establishing a strong political presence in the Nation's Capital
- Serving as the information center for and a single voice of U.S. mining
- Addressing the current and future policy needs of U.S. mining, mining equipment manufacturers and support services members of NMA

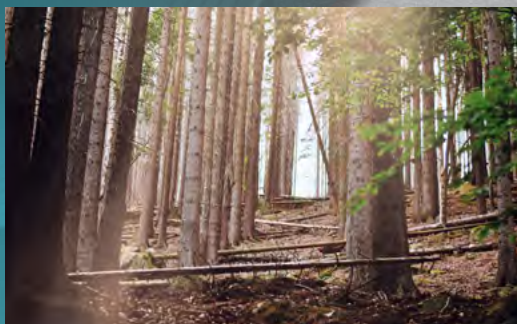


<https://www.movecoal.org/>

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Mission:

To promote the safe, economical, and reliable transport of coal by facilitating communication among coal transport, allied industries and associations to maximize sharing of best practices to serve the needs of industry and the public.



<https://WWW.ASRS.US>

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ASRS's mission is to represent and serve a diverse international community of scientists, practitioners, private industry, technicians, educators, planners, and government regulators involved in mineral extraction and disturbed ecosystem reclamation.

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Mission:

The ACAA advances the management and use of coal combustion products in ways that are environmentally responsible, technically sound, commercially competitive and more supportive of a sustainable global community.



<https://www.americancoalcouncil.org>

AMERICAN COAL COUNCIL

Mission:

American Coal Council (ACC) provides relevant educational programs, market intelligence, advocacy support and peer-to-peer networking forums to advance members' commercial and professional development interests.

ACC represents the collective interests of the American coal industry ~ from the hole-in-the-ground to the plug-in-the-wall ~ in advocating for coal as an economic, abundant and environmentally sound fuel source ACC serves as an essential resource for industry, policy makers and public interest groups.

The Association supports activities and objectives that advance coal supply, consumption, transportation and trading.



<https://www.worldcoal.org>

WORLD COAL ASSOCIATION

Mission:

The World Coal Association is a global industry association comprising the major international coal producers and stakeholders. WCA works to demonstrate and gain acceptance for the fundamental role coal plays in achieving a sustainable and lower carbon energy future. Membership is open to companies and not-for-profit organizations with a stake in the future of coal from anywhere in the world, with member companies represented at Chief Executive level.

WCA is the global network for the coal industry.



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Brian Rodriguez, 35
(1986 - 2022)
Sunrise Coal, LLC



Brian Christopher Rodriguez, 35 of Oaktown, went to his heavenly home on Friday, January 7, 2022. He was fatally injured when he was pinned between the remote controlled CMM and the coal rib. Brian was born in San Antonio, Texas to Anita Medina on October 1, 1986.

Brian was a devoted family man who enjoyed Heaps of Jeeps, was an avid softball player, volunteering on the Oaktown Fire Department, and started the Kings of the Midwest Cornhole. Brian was a member of the Indian Prairie Church and served his country in the United States Marine Corps where he served two tours in Iraq. Brian was employed as a coal miner at Sunrise Coal, LLC.

He was predeceased by: his step-mother Lanette M. Onken; his great-great-grandparent Antonia L. Yanas; and his uncle Herman Medina. He is survived by: his wife Megan Rodriguez; his children, Madelyn, Maddix, Marissa, Mylee, Aundrea, Brian Jr. and Jackson; his parent Anita Medina; his siblings, Anna Rodriguez of Oaktown, Bertha Chambers (Kevin) of San Antonio, Frank Rodriguez (Eunmi), Joe Rodriguez (Meagan) of Oaktown and Brandi McGauley (Paul Kingsley) of Oaktown; and his nieces and nephews, Frank, Anastacia, Julian, Jamie, Aleecia and Braevin.

Cecil Todd Cameron Collett, 32
(1989 - 2022)
Nally & Hamilton Enterprises, Inc.



Mr. Cecil Todd Cameron Collett of Pennington Gap, Virginia, age 32 departed this life on Tuesday, January 11, 2022 at Bell County, KY. A large tree fell from a highwall striking the cab of a pick-up truck, resulting in a fatal injury to Todd.

He was born at Hyden, KY on August 12, 1989 the son of Vicky Woods Collett and the late Cecil Elvis Collett. Todd was employed by Nally & Hamilton as a coal miner--demolition blaster.

He was affiliated with the Dry Fork Holiness Church at Helton, Ky. Todd enjoyed ATV riding, fishing, hunting, collecting guns & target shooting. He had a passion for logging, however his greatest joy came from spending time with his family.

Cecil Todd Cameron Collett was preceded in death by his beloved father, Cecil Elvis Collett, maternal grandmother, Bulah Woods, & mother-in-law, Lora Parsons. Mr. Cecil Todd Cameron Collett leaves the following relatives surviving: his cherished mother, Vicky Woods Collett of Warbranch, Ky., his loving and devoted wife, Ashley Stidham Collett of Pennington Gap, Virginia, three treasured sons, Aiden Todd Collett of Warbranch, Ky., Hunter Chasteen of Pennington Gap, Virginia, Chaz Chasteen of Pennington Gap Virginia, two treasured daughters, Kaylonnie Cameron Collett of Warbranch, Ky., Paislee Collett of Warbranch, Ky., one beloved brother, Arizona Collett and Leandra of Helton, Ky., one beloved niece, Raelyn Collett, one beloved nephew, Keaton Collett and a host of other relatives and friends.

Jeffrey A Phillips, 44
(1977 - 2022)
Ohio County Coal Resources, Inc.



Jeff A. Phillips, 44, of Waynesburg, died at 11:34 a.m. Friday, January 14, 2022, in a mining accident in Benwood, W.Va.

He was born Thursday, March 17, 1977, in Waynesburg, a son of James A. Phillips and Karen S. Patterson Phillips.

Mr. Phillips was a member of the Valley Chapel Church in Spraggs. Jeff enjoyed riding ATVs, listening to country music, spending time with his kids and family, and was an avid outdoorsman. He was a coal miner, having started with GMS and later worked his remaining years with NexGen.

On the side, Jeff would do lawn care with his dad and brother. He enjoyed working his farm, and helping his neighbors with their farming as well.

In addition to his parents, Jeff is survived by his two daughters, Miranda Phillips and Keri Phillips, both of Waynesburg; and his son, Jacob Phillips of Waynesburg; one grandson, Levi Phillips of Waynesburg; one sister, Janet (Joey) Kramer of Waynesburg; and one brother, Jamie Phillips of Waynesburg; and several nieces and nephews.

Deceased is his wife, Donna Marie Phillips.

Paul Lee Springer, 44
(1977 - 2022)
LCT Energy, LP



Paul Lee Springer Jr., 44, of Somerset, passed away March 2, 2022, doing what he loved, working in the mines.

He was born October 1, 1977 in Somerset, he is the son of Darlene Kay (Wilt) Nibert, and Paul Lee Springer Sr.

He is preceded in death by his grandfather Leroy Wilt. He is survived by his beloved mother, who he could always count on, his grandmother Violet Wilt, his two children; Amaya and Mason Springer, and his former wife Jamie Ditzler, his girlfriend Jennifer Hoffman, his two father figures; Delver Shaffer and Rodney Nibert, and siblings, Lori Springer and boyfriend Jeff Campbell, Misty Birkhimer and husband Matt, and John Kadillac and girlfriend Joan Carothers, and numerous nieces and nephews.

Paul worked as a coal miner LCT Energy, where his coal miner co-workers were brothers to him. He loved spending time with his friends and family, laughing and having fun.

James D Brown, 33 (1989 - 2022)

INMET Mining, LLC



James David Brown went underground as a miner for the final time at the young age of 33, on Sunday, March 20, 2022. He worked for InMet Mining LLC at the Darby Fork Mine in Holmes Mill, KY, and was involved in a roof fall, which took his life.

James was born in Harlan, Kentucky, on March 13, 1989, to Marvin and Sharon Gilbert Brown. He grew up in Cumberland and once he was old enough to begin playing football, he found he had a love of and a talent for playing linebacker. He was great linebacker for the Cumberland High School Redskins, winning many awards. After graduating high school in 2008, James immediately made coal mining his occupation. He was a respected coal miner, who always gave 110% effort at his job. James was never one to take handouts so when he was laid off at the mines, he received his certification as a lineman, he received his CDL Class A certificate, as well as his underground mining card.

James was a family man through and through. He was a wonderful father and a loving and protective husband, with a great sense of humor. His family meant everything to him and they were the reason he went underground each day. James loved to hunt, especially with his son, Christian. Together, they would hunt deer, turkey, coyote; it didn't matter what they hunted. Spending time together was the thing James loved most about those hunting trips. He also enjoyed horseback riding and was a skilled rider.

James is preceded in death by his grandparents, Herbert and Lucille Brown and Benton and Robertal Gilbert, as well as several aunts and uncles.

Left to cherish his memory is his wife, Darla Rash Brown; his three children, Christian Gage Teaster, Jaxson David Brown, and Ava Lee Sue Brown; his parents, Marvin and Sharon Brown; siblings, Amanda Lee Brown and Michael Phillip Gilbert; a special great-aunt, Charlene Brown; other extended relatives, as well as many friends.

Kristofer Ball, 33 (1988 - 2022)

Kanawha Eagle Mining, LLC



On Thursday, September 1, 2022, the Ball family lost their hero in a tragic accident, Kristofer Leslie James Ball lost his life in a mining accident.

Kristofer was electrocuted when he contacted a hook that became energized after it penetrated the 480-volt cable that supplied electrical power to a roof bolting machine.

Kristofer, 33 was born in Logan, WV on September 13, 1988 to Richard L. II and Carrie Ball.

He loved fishing, hunting and all the outdoors and spending time with his family.

Preceding him in death are his brother, Anthony Ball; two uncles, Leslie Hal Ball and James Hunter Jr, his maternal grandparents, James & Lucille Hunter and cousin, John Cody Conley.

Those left to cherish his memory include his parents, Richard and Carrie Ball; grandparents, Minda & Richard Dick Williams, and Leon & Marlene Ball; his wife, Chelsea Ball and three beautiful children, Hadley, Greyson and Weston; his siblings, Crystal Maynard, Clifford (Julia) Ball, and Tiffany (Anthony) Alfarone; brothers and sisters-in-law, Roger Paul (Jodie) McCann and Brandy (Kevin) Seavey; father and mother-in-law, Roger & Susie McCann; along with a host of nieces, nephews, aunts, uncles and friends.

William Andrew Richards, 38
(1983 - 2022)
Tunnel Ridge, LLC



William Andrew "Andy" Richards, age 38, of Cadiz, died unexpectedly on Wednesday, August 17, 2022. He was caught between a supply car and its coupler. William was sitting on the supply car which was coupled to a locomotive parked in a track spur. The locomotive was struck by another locomotive pulling three loaded cars into the mine. The impact knocked William off the supply car, killing him. Born December 12, 1983 he was the son of William Michael "Mike" Richards and the late Ethel Richards of Jewett. He was also preceded in death by his brother-in-law Nick Bursac and his father-in-law Sam Bursac. He is survived by his wife of 14 years Tricia Richards, and their children Kylie, Evie, and Declan Richards; sisters Joanna (Tucker) Culver and Brittany (Ryan) Wood; nieces and nephew, Tirzah, Nessa, Payton, Aubrey, Emerson, and Taylor. He is also survived by his mother-in-law, Patricia Bursac, numerous aunts, uncles, cousins and close friends, as well as his grandfather.

Andy, or Andrew as Tricia called him, was a coal miner by trade. But to those who knew him he was much more than that. He was a loving husband and father. He adored his little family and was an incredible human. He worked hard, both at his job and at home with his family. He was involved in everything he could possibly be, whether it was helping coach, going for pontoon rides, working around the house, helping Pappap, or anything else - he was there. He had a love for music, campfires, being outside, and living life.

Sean Dennehy (46)
(1976 - 2022)
Wilson Creek Energy LLC



Sean Dennehy, 46, Bolivar, went to be with the Lord October 22, 2022. He drowned in an underground sump. Born April 2, 1976, in Latrobe, the son of the late Leo Dennehy and Cindy (Shine) Ambrose. Survived by loving wife of 19 years Bridgette (Yount) Dennehy, daughters Caylee Dennehy and Autumn Dennehy; grandson Oliver; sister Sheri Donahue & husband Scott, Lucernemines; nephew Garrett Donahue. Sean was a devoted Steeler fan, proud coal miner and enjoyed the time he spent with his wife and family. He was a loving and devoted husband, father, and Pap.



David E Warren, 24
(1988 - 2022)
El Segundo Coal Company, LLC

Steven Hively, 52
(1969 - 2022)
Ramaco Resources, LLC



Steven Howard Hively, age 52, a resident of Philippi, passed away Monday, February 28, 2022 from injuries sustained in a coal mining accident in McDowell County. Steve was born December 26, 1969 in Wooster OH. He was united in marriage on September 30, 1992 to his high school sweetheart Karla Renee (Weese) Hively who survives at home. Also surviving are children; Brooke Renee Davis and husband Levi, their son Carter Steven Davis of Philippi, Brodi Jane Hively and her son Coleson Kent Hively of Myrtle Beach, SC, and Tyler Bennett and his son Daxx of Spencer, WV.

Steve was preceded in death by his father Howard Harold Hively in 1994, and father-in-law Norman "Eddie" Weese in 1997. Steve enlisted as a Private in the U.S. Marine Corps in June 1992 and was stationed at Camp Lejeune, NC serving with the 3rd Battalion, 10th Marines Field Artillery until November 1999 when he transferred to Headquarters Battalion, Headquarters Marine Corps, Arlington VA to serve in the Office of the Staff Judge Advocate. He was honorably discharged in March 2001 and had earned the rank of Staff Sergeant. Once discharged from

the service he began his career working in various coal mines and more recently was employed with GMS Mine Repair & Maintenance as an Underground Coordinator for the Corporate/ Morgantown Region. Steve was a member of the American Legion Post #96, and was an avid collector of Case knives. He loved spending time with his family, he enjoyed gatherings at his home and was the master griller. Steve was known for his strong work ethic and his desire to lend a helping hand to others. Steve's greatest joy was his grandchildren whom he adored, he loved being a Pappy.

DEPARTMENT OF LABOR ANNOUNCES PROPOSED RULEMAKING TO REVISE STANDARDS FOR COAL MINE OPERATORS' SELF-INSURANCE UNDER BLACK LUNG BENEFITS ACT



WASHINGTON – The U.S. Department of Labor announced a notice of proposed rulemaking by its Office of Workers' Compensation Programs to revise regulations governing the standards related to self-insurance by coal mine operators.

The proposed rule would update the standards coal operators must meet to self-insure, modernize and streamline the application process and fix the amount of security applicants must post. The proposed rule would also clarify acceptable forms of security and establish an appeals process.

The proposed changes would reduce the expense to taxpayers by ensuring that operators, rather than taxpayers, bear responsibility for paying benefits under the Black Lung Benefits Act benefits. The coal mining industry would benefit by providing greater transparency and clarity to mine operators about the procedures and standards for obtaining self-insurance authorization. In addition, the proposed changes would better protect the Black Lung Disability Trust Fund by reducing its liabilities for under-secured operators who go bankrupt.

OWCP encourages the public and other stakeholders to submit written comments to participate in the process of developing a final rule. Comments on the proposed rule must be submitted by March 20, 2023.

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CONSOL ENERGY APPOINTS MITESH B. THAKKAR AS PRESIDENT AND CHIEF FINANCIAL OFFICER



CANONSBURG, Pa.- CONSOL Energy Inc. (NYSE: CEIX), a leading producer and exporter of high-Btu power-generating, industrial and metallurgical coals, announced the promotion of Mitesh B. Thakkar to the position of President in addition to his current role as Chief Financial Officer. This promotion is being made as part of the company's long-term succession planning process.

"Today's announcement reflects the confidence that the board and I have in Mitesh's leadership and his ability to play a broader and more strategic role in the future growth of CONSOL. Since becoming CONSOL's Chief Financial Officer in 2020, Mitesh has helped steer the company through a very challenging period of COVID-related shutdowns and significant deterioration of business outlook, while capitalizing on the subsequent recovery. He orchestrated our plan to de-lever our balance sheet by reducing our outstanding net debt by 83% (including Q4 2022 reductions), played a key role in the merger transaction with CONSOL Coal Resources LP and created significant financial flexibility by opportunistically identifying new sources of

capital in a challenging industry," said Jimmy Brock, Chief Executive Officer of CONSOL Energy, Inc. "We expect 2023 to be a year of opportunity for CONSOL, and I believe today's announcement will position us well to take advantage of those opportunities while continuing to execute on our capital allocation priorities", said Mr. Brock.

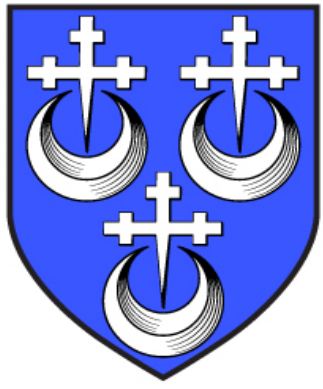
On January 19, 2023, the Board of Directors of CONSOL Energy, Inc. unanimously approved the promotion of Mr. Thakkar to the position of President in addition to his current role as Chief Financial Officer. In addition to his current responsibilities as the Chief Financial Officer, as President, Mr. Thakkar will also be leading the teams responsible for Strategy and Business Development, Environment and Sustainability, and Sales and Marketing. Mr. Thakkar will continue to report to Mr. Brock in his new role.

"I am very thankful to Jimmy and the board for giving me this opportunity to play a broader role in this storied organization. I am excited to continue to work alongside the very talented CONSOL team as we

continue to create significant value for all our stakeholders," said Mr. Thakkar. "I share Jimmy's enthusiasm regarding the significant opportunities that are in front of us related to our shareholder return, growth, and sustainability initiatives. We have made tangible progress on all three fronts in 2022, and 2023 has the potential to accelerate these initiatives. To that extent, I am pleased to announce that CONSOL's board has approved capex of approximately \$28 million for 2023-2026, including \$9.5 million in 2023, to advance our sustainability goals by mitigating methane emissions from our mines. This investment will help us achieve our goal of voluntarily reducing our scope 1 & 2 greenhouse gas emissions by 50% in 2026 compared to 2019 base levels. We also expect to realize meaningful growth in 2023 as our recent investments in the Itmann metallurgical coal mine and the 5th longwall at the Pennsylvania Mining Complex begin to bear fruit. We believe this will only expand our capability to return value to our shareholders and invest in sustainable opportunities for our future."

ABOUT CONSOL ENERGY INC.

CONSOL Energy Inc. (NYSE: CEIX) is a Canonsburg, Pennsylvania-based producer and exporter of high-Btu bituminous thermal coal and metallurgical coal. It owns and operates some of the most productive longwall mining operations in the Northern Appalachian Basin. CONSOL's flagship operation is the Pennsylvania Mining Complex, which has the capacity to produce approximately 28.5 million tons of coal per year and is comprised of 3 large-scale underground mines: Bailey Mine, Enlow Fork Mine, and Harvey Mine. CONSOL also developed the Itmann Mine in the Central Appalachian Basin, which is expected, when fully operational, to produce roughly 900 thousand tons per annum of premium, low-vol metallurgical coking coal. The company also owns and operates the CONSOL Marine Terminal, which is located in the port of Baltimore and has a throughput capacity of approximately 15 million tons per year. In addition to the ~612 million reserve tons associated with the Pennsylvania Mining Complex and the ~21 million reserve tons associated with the Itmann Mine, the company also controls approximately 1.4 billion tons of greenfield thermal and metallurgical coal reserves and resources located in the major coal-producing basins of the eastern United States.



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WV Coal Association Highlights Devastating Impacts of Federal Anti-Coal Policies for Congressional Hearing

Charleston, W.Va. – In submitted comments to the House Ways & Means Committee, which is holding a Congressional Field Hearing in Petersburg, W.Va., the West Virginia Coal Association laid blame for high energy costs and unreliable supply at the feet of anti-coal/anti-fossil fuel Democratic leaders and offered policy proposals to ensure our nation's electric grid remains stable and resilient.

In remarks, Chris Hamilton, President of the West Virginia Coal Association, stated:

"You will find a common thread listening to our residents, workers and companies doing business here in West Virginia. Supply chain disruptions, soaring home heating bills, the high price of gasoline at the pumps and a seemingly never-ending global energy crisis reflect one thing: misguided energy policies from Washington, D.C..."

"...Unfortunately, our coal

mining families know this from experience. An all-out bureaucratic "war on coal" from the Obama-Biden Administration needlessly eliminated thousands of mining jobs in the nation's coalfields by prematurely closing coal-fired power plants and obstructing permits for new mining operations. The nation's electric system has never recovered from these actions, with power grids suddenly unable to deal with periods of high energy demand, like the bomb cyclone during Christmas week 2022 (Winter Storm Elliott). Likewise, some of our mining areas and regions are struggling to survive and recover years after the social fabric of their communities were devastated by the reckless elimination of coal jobs."

"...Except for the four years of Republican control, today's miners have been villainized for the biggest part of two decades now and wake up every day to a barrage of negative comments from this federal administration and national Democrat leaders."

As part of the submitted comments, the West Virginia Coal Association offered a recommended platform of issues or action items for Congress to consider addressing the cost and reliability of American energy. Leading the list of recommendations is the creation of a "Baseload Reliability Tax Credit". Federal legislation should be advanced to incentivize and extend the same level of tax credits to coal-fired electric generation that wind and solar currently receive. We must preserve the precious base load

power that comes from West Virginia's nine base load power plants and incentivize these critical power generating assets to improve their efficiency and reduce carbon output. Other action items include: Stopping USEPA's Regulatory Assault on Fossil Energy; Enhancing Rail Service Oversight; Reining in the U.S. Fish & Wildlife Service; Implementing a Federal Coal Leasing Program; and Expanding Coal Exports.





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AMERICA'S COAL ASSOCIATIONS' STATEMENT ON THE NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION'S 2022 LONG-TERM RELIABILITY ASSESSMENT

AMERICA'S COAL ASSOCIATIONS

CHARLESTON, WV – America's Coal Associations issued the following statement in response to the release of the North American Electric Reliability Corporation's 2022 Long-Term Reliability Assessment:

"NERC's annual assessment is clear – majority of America's electrical grid faces risk of resource shortfall through 2027 thanks to a rapid retirement of America's coal fleet and dependence on intermittent power sources such as wind and solar. Dispatchable resources like coal are five to six times more dependable than wind and twice as dependable as solar. Given NERC's mission to assure the effective and efficient reduction of risks to the reliability and security of the grid, everyone, including both state and federal officials, must take these warnings seriously.

"America's Coal Associations representing 381 thousand American Jobs and \$261 Billion dollars in economic activity join NERC in urging utility commissioners, governors, and state legislators to pause coal retirements until grid operators have identified and valued all reliability attributes. If our nation's utility commissioners continue to subscribe to Europe's failed energy policies, then Americans can expect the same dark and costly consequences our friends overseas are facing today."

BACKGROUND

The following State Coal Associations and Groups have signed on to the above response:



Emily Arthun,
Executive
Director,
American Coal
Council



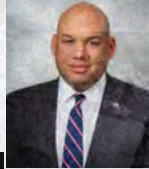
Randy Eminger,
Executive
Director, Energy
Policy Network



Nick Williams,
President,
Illinois Coal
Association



Mike Cope,
President,
Ohio Coal
Association



Tucker Davis,
President,
Kentucky Coal
Association



Matt Bell,
President,
Reliable
Energy, Inc.
(Indiana)



Ches Blevins,
Executive Director,
Texas Mining
and Reclamation
Association



Judy Colgan,
Executive
Director, Rocky
Mountain
Mining Institute



Travis Deti,
Executive
Director,
Wyoming Mining
Association



Chuck Laine,
President,
Tennessee
Mining
Association



Chris Hamilton,
President, West
Virginia Coal
Association



Chuck Laine,
President,
Tennessee
Mining
Association



Rachel Glea-
son, President,
Pennsylvania
Coal Alliance

The North American Electric Reliability Corporation (NERCE) issued their 2022 Long-Term Reliability Assessment which identifies energy and capacity risks that underscore the need for reliability to be a top priority for resource and system planners in North America as the energy transition unfolds. The assessment concludes that planners and operators of the grid must increasingly account for different characteristics and performance of resources being brought online during the energy transition.



Energy advocates say reliability of supply will help price

HARRISBURG, PA – Representatives of some of Pennsylvania's biggest energy producers and consumers said joining the Regional Greenhouse Gas Initiative will spike prices and that state government should protect competition in the marketplace.

The House Republican Policy Committee, holding a meeting in Harrisburg, held a hearing on increasing energy costs that has pushed up costs for large and small businesses as well as homeowners. That matters especially in Pennsylvania, which not only is one of the most populous states in the United States but also is the second-largest exporter of electricity behind Texas. Energy impacts not only the coal and natural gas industries but also the large manufacturers that depend on coal-fired electricity and natural gas.

"Our energy industry provides us so many different opportunities that we could be enjoying in Pennsylvania," said state Rep. Josh Kail, R-Beaver/Washington County and the House Republican Policy Committee chair. "I

don't believe we are getting the most of what we could."

David Callahan, president of the Pittsburgh-based Marcellus Shale Coalition, and Rachel Gleason, executive director of the Pennsylvania Coal Alliance, said consumer choice of energy prices should remain at the forefront. Callahan said the government should not subsidize energy sources and that allowing competition in the wholesale energy market is best.

Gleason noted December's cold blast, which led to power conservation warnings across the PJM Interconnection, exposed faults in the regional electrical grid. Coal-fired generation, which has been declining due to lower production and market changes, was required at a higher pace due to the emergency and could do so thanks to storage near plants.

"Winter Storm Elliott should raise many red flags in terms of reliability and price," Gleason said. Gleason said that making sure energy sources are competing on a level playing field will help prices. Pennsylvania's potential for joining RGGI

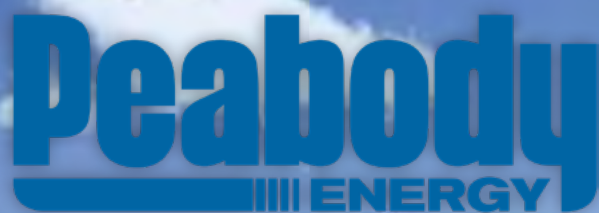
— which is in the courts right now — is also a major factor. RGGI provides carbon-based pricing that would, opponents say, increase energy costs. Advocates say that it will put a value on carbon emissions and prioritize cleaner fuels.

The hearing heard from opponents of RGGI.

"It will change the energy structure within this state. It will set energy policy in this state," said Rod Williamson, executive director of Industrial Energy Consumers of Pennsylvania.

At the conclusion of the hearing, Kail said that Pennsylvania needs a "grounded in reality" energy policy.

"Pennsylvania has the answers. Harrisburg needs to stay out of the way," Kail said.



PEABODY REPORTS RESULTS FOR FOURTH QUARTER AND YEAR ENDED DECEMBER 31, 2022

*Reports Record Earnings; Retires All Senior Secured Debt
Generates Fourth Quarter Operating Cash Flow of \$670 million and Record Free Cash Flow¹ of \$580 million*

ST. LOUIS – Peabody reported fourth quarter net income attributable to common stockholders of \$632.0 million, or \$3.92 per diluted share, compared to \$513.0 million, or \$3.93 per diluted share, in the prior year quarter. Peabody's fourth quarter 2022 results included a \$199.3 million unrealized mark-to-market gain related to its coal hedging activities. Peabody had Adjusted EBITDA¹ of \$500.5 million in the fourth quarter of 2022 compared to \$444.4 million in the fourth quarter of 2021.

Full-year 2022 revenue totaled \$4,981.9 million compared to \$3,318.3 million in the prior year. Full-year 2022 net income attributable to common stockholders totaled \$1,297.1 million, or \$8.31 per diluted share, compared to \$360.1 million, or \$3.22 per diluted share in the prior year. Adjusted EBITDA was \$1,844.7 million,

more than two times the prior year result of \$916.7 million. Peabody generated cash flows from operating activities of \$1,173.6 million resulting in Free Cash Flow of \$1,144.9 million for the full year, compared to cash flows from operating activities of \$420.0 million and Free Cash Flow of \$288.5 million in the prior year.

"Our remarkable fourth quarter results demonstrated the value of Peabody's diverse asset portfolio. While there were challenges to overcome, we were able to deliver record Free Cash Flow and repay all remaining senior secured debt," said Peabody President and Chief Executive Officer Jim Grech. "Additionally, due to our strong operating results and financial condition, we are actively addressing the remaining requirements to implement a shareholder return program."

Fourth Quarter and Full Year Highlights

- Retired all senior secured debt
- Record Free Cash Flow of \$580 million in the fourth quarter
- Adjusted EBITDA of \$501 million in the fourth quarter and \$1,845 million for the full year 2022
- Record full year net income attributable to common stockholders of \$1,297 million and Diluted EPS of \$8.31
- Achieved highest 2022 quarterly production rate in three out of four operating segments in the fourth quarter
- Record low annual global injury rate, with zero reportable incidents at three of our mines
- Commenced redevelopment of North Goonyella, a premium hard-coking coal longwall operation in Australia with over 70 million tons of reserves
- Completed Moorvale South project, which adds incremental volumes and extends the mine life at the CMJV
- Extended life of El Segundo/Lee Ranch through a new long-term coal supply agreement

1 Adjusted EBITDA and Free Cash Flow are non-GAAP financial measures. Adjusted EBITDA margin is equal to segment Adjusted EBITDA divided by segment revenue. Revenue per Ton and Adjusted EBITDA Margin per Ton are equal to revenue by segment and Adjusted EBITDA by segment, respec-

tively, divided by segment tons sold. Costs per Ton is equal to Revenue per Ton less Adjusted EBITDA Margin per Ton. Management believes Costs per Ton and Adjusted EBITDA Margin per Ton best reflect controllable costs and operating results at the reporting segment level. We consider all mea-

sures reported on a per ton basis, as well as Adjusted EBITDA margin, to be operating/statistical measures. Please refer to the tables and related notes in this press release for a reconciliation and definition of non-GAAP financial measures.

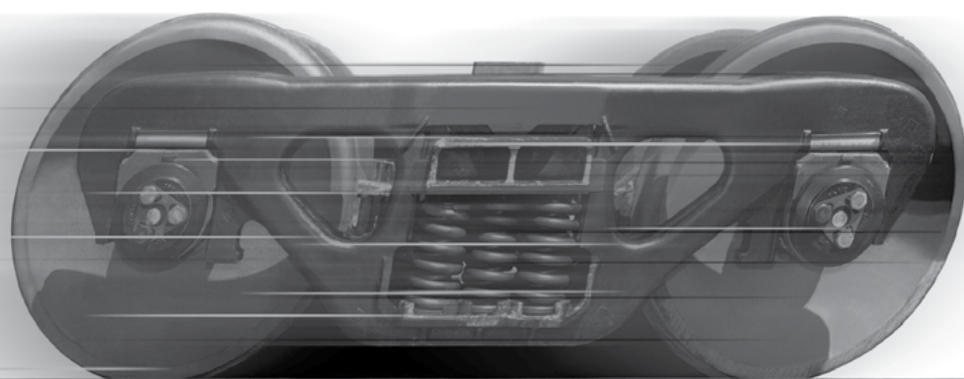
SEGMENT PERFORMANCE

SEABORNE THERMAL

	Quarter Ended			Year Ended	
	Dec. 2022	Sept. 2022	Dec. 2021	Dec. 2022	Dec. 2021
Tons sold (in millions)	4.1	3.7	4.6	15.6	17.3
Export	2.3	1.6	2.7	7.9	9.6
Domestic	1.8	2.1	1.9	7.7	7.7
Revenue per Ton	\$ 93.79	\$ 95.54	\$ 65.71	\$ 86.07	\$ 54.09
Export – Avg. Realized Price per Ton	151.61	187.94	96.16	149.53	79.39
Domestic – Avg. Realized Price per Ton	22.98	21.77	21.53	21.59	22.50
Costs per Ton	43.10	49.22	33.45	44.65	33.64
Adjusted EBITDA Margin per Ton	\$ 50.69	\$ 46.32	\$ 32.26	\$ 41.42	\$ 20.45
Adjusted EBITDA (in millions)	\$ 209.1	\$ 171.2	\$ 148.8	\$ 647.6	\$ 353.1

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- Coil springs
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 - Center-of-car
- Wheels, curved-plate, heat-treated
- Roller bearings



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During the fourth quarter, the seaborne thermal segment shipped 4.1 million tons, the highest quarterly sales volume for the year, 0.4 million tons more than the third quarter. Export shipments increased by approximately 0.7 million tons in the quarter to 2.3 million

tons. The average export realized price decreased 19 percent to \$151.61 per ton, primarily due to higher hedged ton settlements compared to the prior quarter. Fourth quarter seaborne thermal segment costs decreased 12 percent to \$43.10 per ton due to lower sales

price-sensitive costs and favorable production volumes, despite rainfall which was 40 percent higher than the historical average. The segment reported Adjusted EBITDA margins of 54 percent and Adjusted EBITDA of \$209.1 million in the fourth quarter.

SEABORNE METALLURGICAL

	Quarter Ended			Year Ended	
	Dec. 2022	Sept. 2022	Dec. 2021	Dec. 2022	Dec. 2021
Tons sold (in millions)	2.0	1.8	1.6	6.6	5.5
Revenue per Ton	\$ 219.81	\$ 179.77	\$ 211.19	\$ 243.78	\$ 131.83
Costs per Ton	128.14	114.32	105.70	125.92	99.55
Adjusted EBITDA Margin per Ton	\$ 91.67	\$ 64.45	\$ 105.49	\$ 117.86	\$ 32.28
Adjusted EBITDA (in millions)	\$ 187.8	\$ 113.2	\$ 169.6	\$ 781.7	\$ 178.2

During the fourth quarter, the seaborne met segment shipped 2.0 million tons, the highest quarterly sales volume for the year, at an average realized price of \$219.81 per ton, 22 percent higher

compared to the prior quarter. Total segment costs of \$128.14 per ton were 12 percent higher than the prior quarter primarily due to higher sales price-sensitive costs and a longwall move at

Metropolitan. The segment reported 42 percent Adjusted EBITDA margins and Adjusted EBITDA of \$187.8 million in the fourth quarter.

POWDER RIVER BASIN

	Quarter Ended			Year Ended	
	Dec. 2022	Sept. 2022	Dec. 2021	Dec. 2022	Dec. 2021
Tons sold (in millions)	21.2	22.3	22.5	82.6	88.4
Revenue per Ton	\$ 13.88	\$ 12.99	\$ 10.99	\$ 12.89	\$ 10.99
Adjusted EBITDA Margin per Ton	\$ 1.17	\$ 1.70	\$ 0.99	\$ 0.83	\$ 1.53
Adjusted EBITDA (in millions)	\$ 24.7	\$ 37.9	\$ 22.3	\$ 68.2	\$ 134.9

The PRB segment shipped 21.2 million tons at an average realized price of \$13.88 per ton in the fourth quarter, \$0.89 per ton higher than the prior quarter. Tons sold were negatively impacted by approximately 1.1 million tons,

primarily due to winter weather related rail disruptions. PRB costs per ton increased 13 percent, or \$1.42 per ton, primarily due to lower sales volumes, higher black lung excise taxes as part of the Inflation Reduction Act and higher

maintenance and repair costs. The segment reported 8 percent Adjusted EBITDA margins and Adjusted EBITDA of \$24.7 million in the fourth quarter.

OTHER U.S. THERMAL

	Quarter Ended			Year Ended	
	Dec. 2022	Sept. 2022	Dec. 2021	Dec. 2022	Dec. 2021
Tons sold (in millions)	5.0	4.8	4.6	18.4	16.9
Revenue per Ton	\$ 52.35	\$ 54.58	\$ 42.23	\$ 51.82	\$ 40.75
Costs per Ton	40.84	39.40	33.79	38.63	31.04
Adjusted EBITDA Margin per Ton	\$ 11.51	\$ 15.18	\$ 8.44	\$ 13.19	\$ 9.71
Adjusted EBITDA (in millions)	\$ 57.8	\$ 72.7	\$ 38.6	\$ 242.4	\$ 164.2

The other U.S. thermal segment shipped 5.0 million tons, the highest quarterly sales volume for the year, at an average realized price of \$52.35

per ton in the fourth quarter. Costs per ton increased 4 percent from the prior quarter to \$40.84 primarily due to higher black lung excise taxes and

labor costs. The segment reported 22 percent Adjusted EBITDA margins and Adjusted EBITDA of \$57.8 million in the fourth quarter.

Other

In the fourth quarter, the company recognized income from equity affiliates of \$10.3 million and \$131.2 million for the full year. This is primarily related to its fifty percent interest in Middlemount and attributable metallurgical sales volume of 0.4 million tons in the fourth quarter and 1.6 million tons for the full year.

Balance Sheet and Cash Flow

Peabody ended the year with \$1,307.3 million of cash and cash equivalents. In the fourth quarter, the company generated \$579.7 million of Free Cash Flow. Cash margin required for the company's coal hedging activities decreased \$210 million to approximately \$255 million at December 31, 2022.

The company continued to reduce total debt levels, retiring all of the \$545 million of senior secured debt during the quarter. The company posted an additional \$62 million of cash collateral in support of future reclamation obligations, bringing total cash collateral supporting surety bonds to \$150 million at December 31, 2022, which is reported in restricted cash and collateral arrangements on the Company's balance sheet. Based on fourth quarter Free Cash Flow results, an additional \$75 million of cash collateral has been posted in the first quarter of 2023.

First Quarter 2023 Outlook**Seaborne Thermal**

- Export volume is expected to be 1.8 million tons, less than ratable to full-year guidance, due to lower production as a result of a longwall move at Wambo Underground and recovery from heavy rains in the fourth quarter.
- 0.7 million export tons are priced at \$189 per ton (includes the Wambo hedges at \$84 per metric tonne), and approximately 0.9 million tons of high ash product and 0.2 million tons of Newcastle product are unpriced.
- Costs are expected to be \$60-\$65 per ton.

Seaborne Metallurgical

- Seaborne met volumes are expected to be 1.3-1.5 million tons, less than ratable to full-year guidance due to heavy

rains in Queensland and geologic conditions at Shoal Creek.

- 0.9 million export tons are priced at \$216 per ton. The remaining unpriced volumes are expected to achieve 75 to 80 percent of the premium hard coking coal price index.
- Costs are expected to be \$140-\$150 per ton.

U.S. Thermal

- PRB volume is expected to be approximately 22 million tons at an average price of \$13.80 per ton and cost of approximately \$11.60 per ton.
- Other U.S. Thermal volume is expected to be approximately 4.7 million tons at an average price of \$52.50 per ton and cost of approximately \$40 per ton.

PEABODY (NYSE: BTU) IS A LEADING COAL PRODUCER, PROVIDING ESSENTIAL PRODUCTS FOR THE PRODUCTION OF AFFORDABLE, RELIABLE ENERGY AND STEEL. OUR COMMITMENT TO SUSTAINABILITY UNDERPINS EVERYTHING WE DO AND SHAPES OUR STRATEGY FOR THE FUTURE.

Komatsu's Chattanooga manufacturing facility begins production of HM400-5 articulated trucks

One of Komatsu's HM400-5 articulated haul trucks, recently produced at the company's Chattanooga Manufacturing Operation

February 14, 2023 – To support growing demand, Komatsu has begun producing the company's HM400-5 articulated haul trucks at its factory in Chattanooga, Tennessee. While the trucks were produced in Chattanooga in the mid-2000s, in 2009 production shifted to the company's plant in Ibaraki, Japan, where it has remained until now.

Used primarily in construction, quarry and mining applications, the 473-HP HM400-5 is designed to move material across challenging terrain while delivering productive, consistent performance for operators of all experience levels. To celebrate the new production line, today Komatsu and the Association of Equipment Manufacturers (AEM) hosted U.S. Rep. Chuck Fleischmann along with other local and state officials for a launch event at the company's Chattanooga plant.

"For years, Komatsu has been a proud member of our Chattanooga-area community, providing hundreds of good-paying jobs and generating a massive economic impact for Chattanooga and Tennessee," said Rep. Fleischmann. "Bringing back production of Komatsu's HM400-5 trucks is another sign of our strong local workforce and shows the confidence business leaders have in Chattanooga's economy and our values of hard work, low taxes, and free enterprise. I am excited that Komatsu is expanding their operations here in Chattanooga and investing in our community."

Production of the truck has already driven an increase in Komatsu's spend with local and regional suppliers. Additionally, the new line will offer more opportunities for area students to gain experience in manufacturing. Komatsu's Chattanooga plant currently

has a pre-apprenticeship program that employs high school seniors part-time, allowing them to earn credits toward a full apprenticeship certification through Chattanooga State Community College.

"We have seen the demand for our HM400-5 trucks grow significantly in both the U.S. and Canada, which is why we began producing the trucks here in the U.S.," said Rod Schrader, Chairman and CEO, Komatsu North America. "The domestic production of this popular truck supports Komatsu's commitment to jobs and manufacturing in the U.S., and also enables us to contribute far more to the local Chattanooga economy."

"AEM is honored to partner with Komatsu to host Congressman Chuck Fleischmann as we celebrate the return of production of the HM400 articulated truck to Chattanooga. Today's event is a vital reminder that equipment manufacturing in the United States is alive and well,

with a future destined to create more family-sustaining jobs in America," said Kip Eideberg, AEM's senior vice president of government and industry relations. "As our industry continues to face supply chain disruptions and worker shortages, we need our elected officials to support policies that will help strengthen equipment manufacturing in America. We are grateful to Congressman Fleischmann for his leadership in Congress and his support for policies that will help equipment manufacturers invest in their communities, grow their businesses, and hire more Americans."

In addition to the HM400-5 trucks, the plant produces midsize hydraulic excavators and intelligent excavators, as well as some machines for the forestry market. Approximately 525 people are employed at the Chattanooga campus. Of those employees, 425 are part of the manufacturing operation, while 100 work for other divisions of Komatsu.

About Komatsu

Komatsu develops and supplies technologies, equipment and services for the construction, mining, forklift, industrial and forestry markets. For a century, the company has been creating value for its customers through manufacturing and technology innovation, partnering with others to empower a sustainable future where people, business and the planet thrive together. Front-line industries worldwide use Komatsu solutions to develop modern infrastructure, extract fundamental minerals, maintain forests and create consumer products. The company's global service and distributor networks support customer operations to enhance safety and productivity while optimizing performance.

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Sandvik launches digital convergence system for ground support

Sandvik is launching xCell Cyclops™, a convergence system for ground support in underground mining that provides wireless, continuous, remote and real-time measurement of ground movements. It features built-in notifications and alarms to support a safer and more sustainable work environment. Underground mining is generally trending deeper, which leads to more difficult and complex ground conditions for mine operators to manage. Squeezing ground and seismic events can have a major impact on both the safety and productivity of a mining operation. The new xCell Cyclops™ convergence system from Sandvik enables remote assessment of rock mass behavior, which leads to safer, more efficient and cost-effective ground support and optimized ground rehabilitation. “The new xCell Cyclops™ convergence system is a major technological leap forward

to achieve a safer, more sustainable way of digitally monitoring convergence in underground mining,” said Peter Young, Product Manager for Bolting at Sandvik Mining and Rock Solutions’ Ground Support Division. “Through the wireless and connected devices and a user-friendly online platform, customers can easily adapt their individual setup and track any changes in the mine’s ground conditions.” The retrofittable design of xCell Cyclops™ sensors makes them very easy to install directly onto existing rock bolts. They are battery-powered and operate with highly accurate laser measurements, and can be connected via both Wi-Fi and Bluetooth, providing operators with real-time access to data, built-in notifications and alarms. This setup reduces the need for manual work and inspections in the mine, reducing costs and improving safety. “This product is designed for the modern mine,” Young said. “Manual



measuring methods for managing ground support are now a thing of the past. With this new sensor system, it is possible to understand, analyze and forecast ground movements remotely.” The xCell Cyclops™ system is available today as a subscription service with three levels: “Basic,” “Silver” and “Gold.” Number of

users at a site and devices in remote mode vary across the levels. Local service is included in all three levels, and remote service is included in the “Gold” package.

Sandvik Group

Sandvik is a global, high-tech engineering group providing solutions that enhance productivity, profitability and sustainability for the manufacturing, mining and infrastructure industries. We are at the forefront of digitalization and focus on optimizing our customers' processes. Our world-leading offering includes equipment, tools, services and digital solutions for machining, mining, rock excavation and rock processing. In 2021 the Group had approximately 39,000 employees and revenues of about 86 billion SEK in about 150 countries within continuing operations.

SANDVIK

Sandvik Mining and Rock Solutions

Sandvik Mining and Rock Solutions is a business area within the Sandvik Group and a global leading supplier of equipment and tools, parts, service, digital solutions and sustainability-driving technologies for the mining and construction industries. Application areas include rock drilling, rock cutting, loading and hauling, tunneling and quarrying. In 2021, sales were approximately 41.4 billion SEK with about 15,500 employees.

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WORLD NEWS



World Coal Chairman Calls for More Reason and Rationality amidst Energy Uncertainty

By: Christopher Demetriou

The Chairman of the World Coal Association says the time has come for the world to accept that abated coal has a vital role to play in our long-term energy future

Speaking at the Southern African Coal Conference in Cape Town today, WCA Chairman, July Ndlovu, said there has never been a more poignant time to speak about coal and its multiple attributes.

“Almost a year to the day, coal’s global journey took a new and dramatic turn, or more correctly, a series of turns. Europe was confronted by a plethora of unprecedented energy challenges including gas shortages, ongoing supply chain problems, price surges, and transportation bottlenecks. Additionally, droughts manifested the inability for renewables to deliver the continuous

supply of energy that was promised.”

Mr. Ndlovu said that geopolitical issues in Ukraine, Russia, and China added more uncertainty to the calamity, showing how essential it was for countries to have energy security. “As the past year has demonstrated, coal can still be relied upon to deliver energy security in the face of turmoil and uncertainty.

“Coal continues to play a pivotal role in parts of the world where fuel choices are few. This includes Asia, South Africa, and a large part of the African continent, where millions of people still depend on coal for light, heat, food, employment, and transport – essentially

the basics of life.

“In reality, coal remains essential to electricity supply in more than 80 countries. By 2040, the IEA predicts it will be the largest single source of electricity to 22 per cent of the world’s population.”

Mr. Ndlovu said it was every country’s sovereign right to make its own energy choices.

“So, we’ve got to get back to reality and common sense. We’ve got to push back against singular energy solutions, which are inadequate and unreliable. We must consider coal’s multiple attributes and practicalities.”

Mr. Ndlovu said coal remained the core

raw product in the creation of steel, cement, and aluminium – the lifeblood of a constantly transforming society.

“According to the International Energy Agency (IEA), demand for steel alone is set to grow a third by 2050. Where is that steel coming from? This is the same steel that is also needed to produce wind turbines, solar panels and batteries. Is it being made from renewable energy? No, not yet anyway. The volumes needed are too astronomical. It’s got to come from coal.”

Mr. Ndlovu said the coal industry was undergoing a major transformation as participants across the whole coal value chain – including South Africa’s Thungela Resources, Seriti Resources, and the South

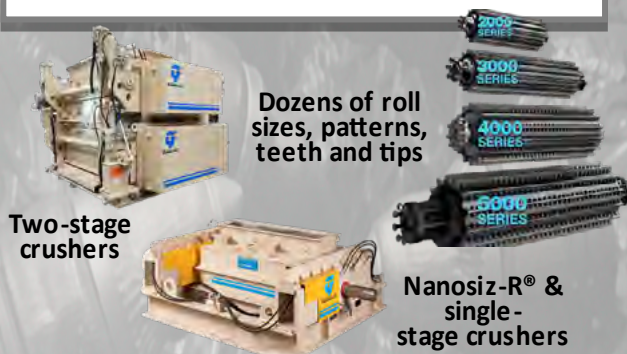
African Colliery Manager’s Association (SACMA) – signed on to an abated coal future which included technologies such as High-Efficiency Low Emissions (HELE) and Coal-to-Hydrogen, all capable of being equipped with Carbon Capture and Storage (CCUS). The fact remains that up to 99 per cent of coal emissions, including CO₂, can be eliminated through current and available abatement technologies.

“The past year has informed us all that we are at a major crossroads in our energy future, and we need to chart a new and truly ground-breaking way forward for this valuable and versatile commodity and the dynamic community that oversees it.”



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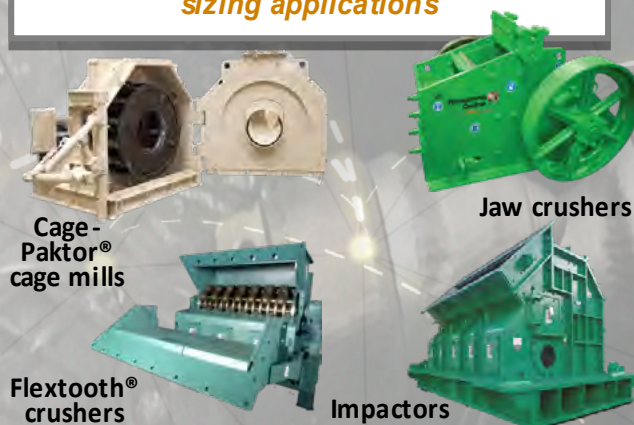
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Before State of The Union, Americans Focused on a Secure Economy, Diverse Fuels to Power Our Nation and Strong Domestic Supply Chains

WASHINGTON, D.C. – As President Joe Biden prepares to address the nation with his take on the State of the Union, new polling conducted by Maru Public Opinion for the National Mining Association (NMA) shows American priorities are aligned with those of the mining industry.

“In considering the State of Our Union, it’s vital to acknowledge that our electricity grid is under almost constant threat of failure and is growing less reliable by the day. At the same time, our mineral supply chains – which serve as the very foundation of virtually every supply chain – have never been more exposed. Despite a great deal of talk about each, very little is being done in Washington to address these crises of our own making,” said Rich Nolan, President & CEO of the NMA. “This polling shows that Americans want clear focus on these areas and it’s time for action.” The polling was conducted from February 3-5, 2023, of 1,530 American voters.

Coal

Following a year in which natural gas prices skyrocketed and much of Europe was locked in an energy crisis, eight in 10 Americans (78 percent) want the U.S. to utilize a comprehensive energy strategy that includes a diverse mix of fuels including natural gas, coal, renewables and nuclear power, and six in 10 Americans (58 percent) said the U.S. should be taking a leadership role in pursuing the development and deployment of advanced coal and carbon capture technologies that can reduce emissions in the U.S. and overseas. Consumers are paying more than they have in years for a supply of power that is less and less reliable when they need it most. Yet, despite warnings from the nation’s foremost reliability experts and clear voter concern, the Environmental Protection Agency continues to pursue policies that will make the situation far worse.

•According to reporting from Bloomberg, as many as 40 planned coal plant retirements have been postponed or scrapped largely due to acute grid reliability challenges where utilities and grid operators have made it clear closing plants would be reckless.

•A winter reliability assessment from the North American Electric Reliability Corporation (NERC) noted that a “large portion of the North American Bulk Power Systems is at risk of insufficient electricity supplies during peak winter conditions.” It went on to highlight that, in one region, “Nuclear and coal-fired generation retirements total over 4.2 GW since the prior winter. Declining reserves are the result of few resource additions.”

•Jim Matheson, CEO of the National Rural Electric Cooperative Association, commented on the assessment saying, “As the demand for electricity risks outpacing the available supply during peak winter conditions, consumers face an inconceivable but real threat of rolling blackouts. It doesn’t have to be this way. But absent a shift in state and federal energy policy, this is a reality we will face for years to come.”

•NERC’s CEO Jim Robb pleaded for energy policy that better recognizes how essential existing dispatchable generation remains to grid reliability. “We need to retain the existing resources as long as we don’t have an alternative. That’s the issue,” he told Public Utilities Fortnightly. “My first bit of advice is to... manage the pace of change. The second bit of advice we give is don’t underinvest in bridge fuel or the bridge issues to get us from where we are to where we want to go.”

•Federal Energy Regulatory Commissioner (FERC) Mark Christie told Bloomberg, traditional sources of power are shutting down “at an unsafe pace” to keep up with the transition to wind and solar. He continued, “The red lights are flashing everywhere. We’re not going to have sufficient power supply.”

Minerals

As Congress continues to grapple with the question of permitting and National Environmental Policy Act reform – with three congressional hearings planned this week that cover mineral production, sourcing and permitting – more than six in 10 Americans (62 percent) support a streamlined mine permitting process that would encourage more domestic mining for minerals and as a means to decrease our reliance on foreign countries (just 15 percent oppose and 24 percent don't know).

While Americans support this emphasis on domestic mining and sourcing, USGS found in a report just last week, we are more import reliant than at any other time, with imports now making up more than one-half of the U.S. apparent consumption for 51 nonfuel mineral commodities – up from 2021, when we were import dependent for more than one-half of the U.S. apparent consumption for 47 nonfuel mineral commodities. China is the top supplier of the minerals our supply chains need.

As mineral demands are increasing, mines simply aren't getting

approved here in the U.S.. In fact, in recent weeks we've seen the administration take bold steps to block mining across the U.S., placing us at a further competitive disadvantage to allies and geopolitical rivals alike.

Methodology

Undertaken by Maru Public Opinion, this study conducted by its sample and data collection experts at Maru/Blue February 3-5, 2022, among a random selection of 1,530 American adults who are Maru Springboard America online panelists. For comparison purposes, a probability sample of this size has an estimated margin of error (which measures sampling variability) of +/- 2.5%, 19 times out of 20. The results have been weighted by education, age, gender, and region to match the population according to US Census data which ensures the sample is representative of the entire adult population of the United States. Released studies are posted to Maru Public Opinion US Polls. Discrepancies in or between totals when compared to the data tables are due to rounding.



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Coal, once left for dead, now making a comeback

PITTSBURGH, PA – The Covid-19 pandemic's beginnings in early 2020 caused hard times in the coal industry, including a sharp drop in demand that led to shut mines and layoffs across companies, including in Pennsylvania. But the energy crisis of 2021 and 2022 has helped get the industry back on its feet.

An International Energy Agency report earlier this month said that coal, which had dropped significantly in 2020 even after a decline in 2019, was likely to see high demand globally in the next two years. And IEA coal production, which has been falling sharply in the United States over the past 15 years, will likely finish up 2022 with its highest levels ever globally.

That's a significant change to the report for 2020, which noted that coal-fired generation was on the wane in the United States even before the pandemic, and global coal consumption would fall even further after 2021. Global coal consumption, driven by China and India primarily, dropped 7% between 2018 and 2020, the highest percentage since IEA began keeping records in 1971.

But higher natural gas prices, along with a shortage in energy supply, has boosted coal demand and production for electricity and industrial purposes. Some coal-fired power plants, which were set to go offline, have remained open, including one in Armstrong County, one of the last remaining coal-fired power plants in Pennsylvania. IEA believes in its latest report that wind and solar will likely push coal further out after 2024 in the United States and Europe. But it's also poised to increase

in China and India. That's not only for power generation, but also for industry in those countries.

"For most industrial purposes where coal is used, such as iron and steel production, there are not many technologies that can replace it in the short term," IEA said. "Based on current trends, global coal demand is set to rise to 8.025 trillion tons in 2022, the highest level ever seen, and to remain there through 2024."

That's great news for the Pittsburgh-region coal producers that serve both the power plants and industry, like Consol Energy Inc. Consol (NYSE: CEIX) serves the domestic power plant market, but it also is increasingly producing coal for export to countries like India and shipping it via its own terminal in Baltimore.

It's a turnaround for Consol, which had gone into survival mode with the rest of the industry, preserving cash and laying off employees at the Enlow Fork Mine in Greene County and postponing work on a new metallurgical coal mine in West Virginia.

Fast-forward more than two years and things have changed for the better at Consol. Consol's third-quarter revenue was \$533.6 million, and profit was \$152.1 million, up 80% in revenue and 233% in profit year-over-year. It beat earnings per share and revenue amid climbing demand for coal and higher prices.

Perhaps even more telling is Consol's stock price, which is up to \$71.67 as of Dec. 23 — an increase of 233% in less than a year.

Consol's stock had been below \$4 a share in October 2020. But the coal producer under CEO Jimmy Brock hasn't just stabilized its ship, it's paid off debt and has not only opened the mine it delayed in West Virginia, but also reopened Enlow Fork and should have a fifth longwall machine, used to produce coal in mass quantities, up and running by the end of the year.

Brock told the Business Times that coal continues to have a vital place in the energy mix. "We need the continued productivity and predictability of cost-effective energy, much of which is currently provided by coal, while we develop truly cost-competitive alternatives on a global scale," he said. "Coal is affordable, reliable, scalable and can be stored for emergency use. We need to use all available resources as fuel choices to meet different demand responses. Coal needs to remain a vital part of

the energy mix for the foreseeable future." Consol and Brock have fought back against regulations, including Pennsylvania's potential entry into the Regional Greenhouse Gas Initiative, that would place more demands on coal.

"The significant increase in energy prices stems from decades of underinvestment in traditional fossil fuels that still form the mainstay of meeting our energy demand," Brock said in connection with the IEA report. "The underinvestment is resulting from regulatory hurdles and reduced financing access to traditional sources of energy. Unrealistic expectations around scalability of newer forms of energy that lack reliability and consistency at the expense of traditional energy are also a big driver."



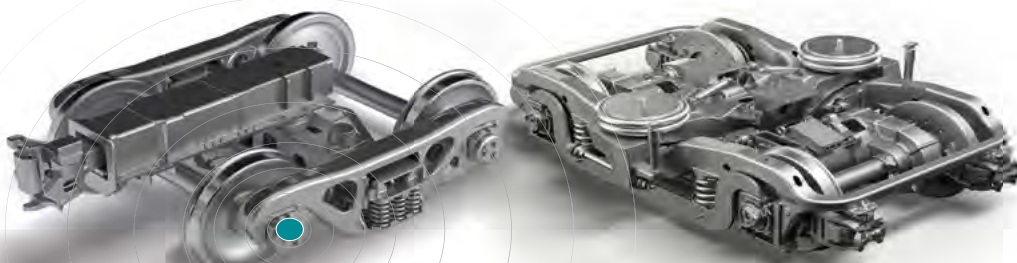
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Cheyenne Mountain Resort
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ASRS (AMERICAN SOCIETY OF RECLAMATION SCIENCES)

May 15 – 19, 2023

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40th Annual Meeting

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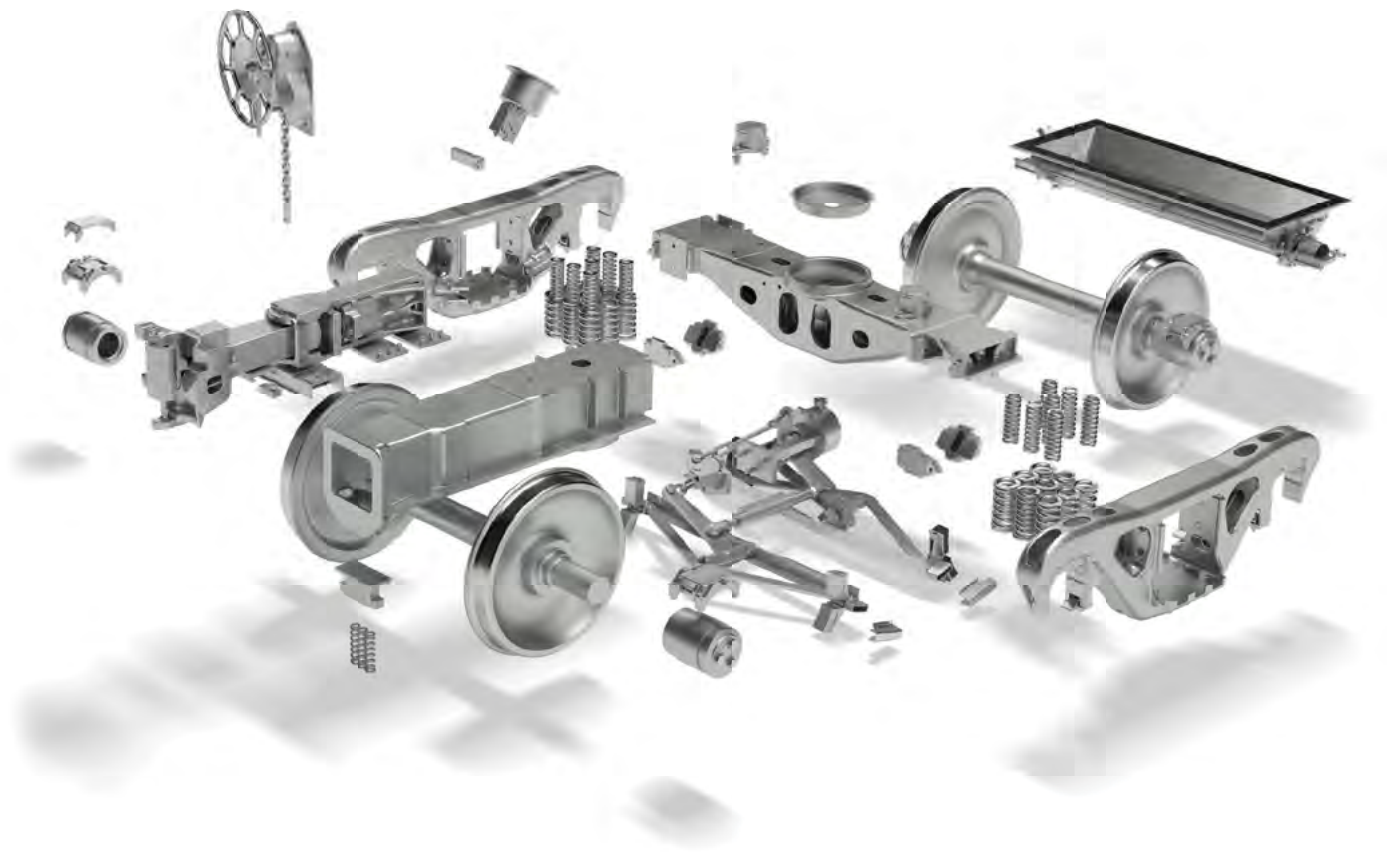


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