

coal

Issue 2 • 2021

ENERGY

From the Mine to the Utility

2020 MINER'S MEMORIAL

th

ASSOCIATION COMPARISONS

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40th Edition

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Magazine
Coal Energy is a magazine linking the 4 main coal associations and remembering miners who have sacrificed their lives working in the coal mining industry.



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letter from THE PUBLISHER



JULY 2021

Dear readers,

Welcome to Issue 2, 2021 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 five brave souls that lost their lives in 2020. 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.

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 info@martonickpublications.com with any news that may be considered for publish in following issues.

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. We are proud to announce that our facebook page now has a weekly reach of over 5,000 contacts and is liked by 1,900 individuals and companies who support coal and coal energy.

With the ongoing trend and convenience of electronic publications, we are pleased to inform you our online readership is increasing daily. To be added to our digital delivery database, please send an email to info@martonickpublications.com with your subject as Digital Delivery.

We extend a warm appreciation to our supporting advertisers, please support them as they make the publication you are reading 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,

A handwritten signature in cursive script that reads 'Maria Martonick'.

Maria Martonick

President

Martonick Publications, Inc.



ASSOCIATION COMPARISONS



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.nma.org>

NATIONAL COAL TRANSPORTATION ASSOCIATION

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://movecoal.org>

AMERICAN SOCIETY OF MINING AND RECLAMATION

MISSION:

ASMR's mission is to represent and serve a diverse national and international community of scientists, practitioners, private industry, technicians, educators, planners, and government regulators involved in mineral extraction and the reclamation of disturbed lands. ASMR promotes the advancement of basic and applied reclamation science through research and technology transfer in the Society's annual meetings, workshops, published proceedings, newsletters, Reclamation Matters magazine, and the ASMR web site.

<https://www.asmr.us>

AMERICAN COAL ASH ASSOCIATION

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.acaa-usa.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.americancoalcouncil.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.

<https://www.worldcoal.org>

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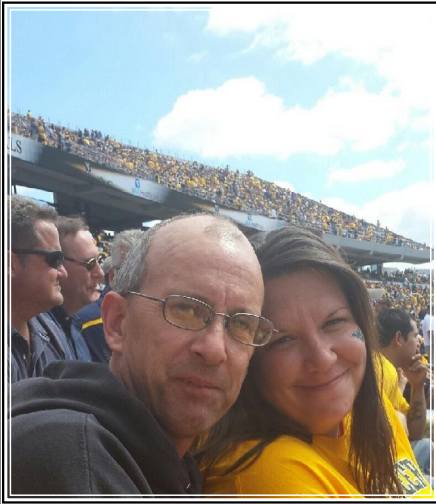




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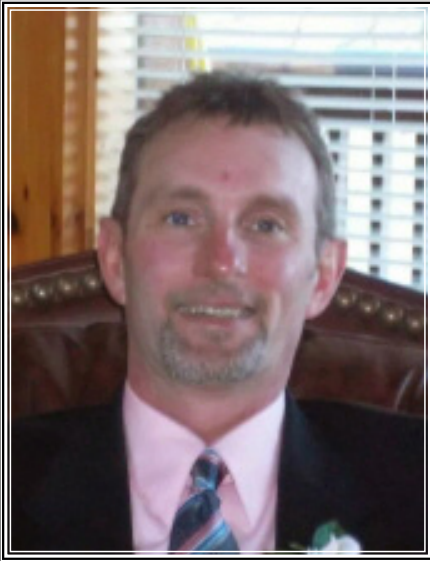


James D. Campbell

James David “Dave, Soupy” Campbell, age 50, of French Creek, WV, died Thursday, February 27, 2020, at Ruby Memorial Hospital in Morgantown, WV. He was born July 28, 1969, in Buckhannon, WV, a son of William Clyde Campbell who survives of French Creek and the late Lora Belle Smallridge Campbell. On July 1, 1994, he married Nichole Berry who survives of

French Creek. In addition to his father and wife, he is survived by one daughter, Ariel Campbell and fiancé Thomas Barbo of French Creek; one son, Tyler James Campbell and wife Dakota of Buckhannon; four grandsons, Mason Leigh Cutright and Clayton Matthew Campbell both of Buckhannon and Erik Thomas and Wyatt James Barbo both of French Creek; three brothers, Bill Campbell and wife Sandy, Bob Campbell and wife Cathy and Mike Campbell all of French Creek; one sister, Ruth Tolliver and husband Roger of Rock Cave, WV; several nieces and nephews and one aunt, Mae Pratt of Buckhannon. Mr. Campbell was a Maintenance Manager for Country Roads Transport. Dave was a Christian by faith. Dave was such an amazing and wonderful husband, father, son and grandfather. He was his happiest when he was with his family. He especially loved spending time with his grandsons; they were his world. He was one of the most hardworking and loving people around. Everything he did was to help someone, in some way. He touched the hearts and lives of every single person who had the pleasure of knowing him. He will be greatly missed by his friends and loved ones; and he will forever be in our hearts.





Phillip T. Ramsey

Phillip Thomas Ramsey, 58, of Madisonville, KY passed away, October 13, 2020 at Baptist Health Hospital in Madisonville. He was born May 2, 1962 in Springfield, TN to Don Ramsey and Nancy Henry Ramsey. He was preceded in death by his grandparents, Nell and Raymond Ramsey, and Virginia Clark; and mother-in-law, Sue Dukes. Phillip worked as a coal miner. He was a music lover and enjoyed motocross racing. He was big on guitars and rock 'n roll music. Phillip never met a stranger and loved making new friends.

He is survived by his wife, Rita Simms Ramsey; two sons, Michael (Meagan) Culbertson and their children, Hunter, Avery and Owen of Greenville, KY; and Joseph (Lauren) Culbertson and their son, Silas of Madisonville; his parents, Don and Nancy Ramsey; one brother, Chad (Andrea) Ramsey of Madisonville; one niece, Reagan Ramsey; and several aunts and uncles.





Daniel F. Shoener

October 27, 2020

Daniel Frank Shoener, Jr., 37, also known as "Dangerous Dan Thunder", of W. Philadelphia St., Donaldson, passed away on Tuesday, October 27, 2020 in Porter Twp., Schuylkill County.

Born on December 16, 1982 in Pottsville, he was a son of Melissa Zerbe Rehrer of Pine Grove and the late Daniel F. Shoener, Sr.

He was a 2001 graduate of Pine Grove High School, where he attended Vo-Tech for Auto Body.

Daniel was a Independent Coal Miner.

He was a member of Hetzel's Lutheran Church, Pine Grove.

Preceding him in death was his step father, Dale Rehrer.

Surviving, in addition to his mother, are his sisters, Nicole and husband Jeremy Witherow, Amanda Clark, Danbrielle Shoener, Samantha Shoener; two nephews, Joshua and Jayden Witherow; many aunts, uncles and cousins.





Taylor M. Halstead

It is with great sadness that the family of Taylor Melvin Scott Halsted, 20, of Madison announces his passing. He was fatally injured in a mining accident November 23, 2020.

He is survived by the love of his life Ashley Pagano and new baby girl Novalee; parents are Kimberly and Shane Green of Bob White and Randy and Joetta Halstead of West Madison; grandmother, Linda Moore; loving grandmother, Laura Pagano and (deceased) Bradley Dale Pagano; brothers, David Sutphin, and Preston and Wade Halstead; sisters, Randi Marie Halstead and Katie Purdue; and a host of aunts and uncles that loved him dearly.

He was preceded in death by his maternal grandfather Melvin Moore; paternal grandparents Bernard and Evalene Halstead; and uncle Todd Halstead.

Taylor was known as "Big Man" by all his friends. He will be loved, missed, and cherished by all who knew him.



Douglas Slusher, 48, October 9th 2020

Please take a moment of silence for Douglas Slusher.



PRESS RELEASES

Attendee and Press Registration for World's Largest Mining Show – MINExpo INTERNATIONAL® – is Now Open/ June 8, 2021

WASHINGTON, D.C. – The National Mining Association (NMA), sponsor of MINExpo INTERNATIONAL® 2021, the world's largest mining show of its kind, announced today that attendee and media registration is open for this fall's in-person show, which takes place in Las Vegas from September 13-15, 2021. Originally scheduled to take place in September 2020, the event, which brings together 40,000 exhibitors, attendees and event partners, was postponed by the NMA in May 2020 and rescheduled for Sept. 2021, when it became evident that the COVID-19 pandemic made holding MINExpo® in September 2020 impracticable.

With many countries around the world planning massive infrastructure and energy pushes to reignite their economies post-pandemic, mining is central to those efforts and the very picture of economic recovery will be on display at MINExpo. Mined materials are the building blocks of every infrastructure project and all future energy technologies, feeding the world's manufacturing, technology, defense and medical supply chains. Demand for mined products is poised to soar in the coming years.

Typically held every four years, MINExpo is the world's largest and most comprehensive global mining event, bringing together worldwide industry leaders who are looking to purchase the latest equipment and services, explore innovative new technologies, meet face-to-face with suppliers and make valuable new connections. MINExpo covers the entire industry—including exploration, mine development, open pit, underground mining, processing, safety, environmental improvement and more.

Additional details can be found on the MINExpo website, which continues to be updated as additional information becomes available. Press who are interested in registering should do so here, and attendees may register here. The National Mining Association (NMA) is the proud sponsor of MINExpo INTERNATIONAL® and is U.S. mining's advocate in Washington, D.C. and beyond. The NMA is the only national trade organization that represents the interests of mining before Congress, the administration, federal agencies, the judiciary and the media—providing a clear voice for U.S. mining.

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Peabody's Board Appoints James Grech As The Company's Next President And CEO / ST. LOUIS, May 3, 2021 /PRNewswire/

Following an extensive search process, Peabody's Board of Directors today announced the appointment of James (Jim) Grech to the position of President and Chief Executive Officer effective June 1, 2021.

"On behalf of the full board, I'd like to welcome Jim to Peabody. Jim's extensive operational, commercial and financial experience in mining, utilities and other fuel sources will be instrumental to Peabody's success moving forward," said Bob Malone, Chairman of the Board. "I'd also like to thank Glenn for his dedicated service during a very difficult time for the company and for his commitment to facilitate an orderly transition."

Jim has over 30 years of experience in the coal and natural resources industries, most recently serving as Chief Executive Officer of Wolverine Fuels, a U.S. thermal coal producer and marketer. Prior to joining Wolverine Fuels, Jim served as President of Nexus Gas Transmission as well as the Chief Commercial Officer and Executive Vice President of Consol Energy. Jim holds a Bachelor of Science in Electrical Engineering from Lawrence Technological University and an MBA from the University of Michigan.

"I look forward to joining Peabody's talented workforce and shaping the company's strategic path forward to maximize value for all stakeholders," said Jim Grech. "I'm impressed by the sig-

nificant strides the company has made during a difficult period and am excited to further improve the competitiveness of Peabody."

Pursuant to the previously announced employment transition agreement, Glenn Kellow, current President and Chief Executive Officer of Peabody, will step down from his position upon the effective date of Jim's appointment. In addition, should Glenn be re-elected as a director at the company's upcoming Annual Meeting of Shareholders scheduled for May 6, 2021, the board currently expects to appoint Jim to replace Glenn and serve as a board member until the next Annual Meeting contemporaneously at the effective date of his employment. Jim is also expected to be appointed to serve on the Executive Committee of the Board.

Peabody (NYSE: BTU) is a leading coal producer, providing essential products to fuel baseload electricity for emerging and developed countries and create the steel needed to build foundational infrastructure. Our commitment to sustainability underpins our activities today and helps to shape our strategy for the future. For further information, visit PeabodyEnergy.com.

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Arch Resources Rewards Eight High School Graduates with Annual Scholarships / ST. LOUIS, June 24, 2021 at 12:00 PM EDT

Arch Resources announced today the names of eight graduating high school seniors who are the 2021 Arch Scholars Program recipients. Each student will receive a \$2,000 annual scholarship for up to four years to attend an accredited college or university of their choice.

The Arch Scholars Program is open to dependent children of eligible employees of Arch Resources and its subsidiaries. Recipients are selected based on academic record, leadership, and participation in school and community activities. A statement of education and career goals, a work history and an outside appraisal also are included in the application.

“Each year, we look forward to recognizing the outstanding achievements of our employees’ children through the Arch Scholars Program,” said Paul A. Lang, Arch’s chief executive officer. “The 2021 class of recipients follows a long line of honorees who have achieved the highest standards of academic performance, outstanding citizenship and community engagement. We are pleased that we can reward the efforts of these outstanding students with funds to help them continue their educations and reach their goals. We congratulate them on their hard work and wish them great success in the future.”

The 2021 Arch Scholars are:

Student’s Name	Parents’ Names	Student’s Hometown
Ana Alfaro	Jose Alfaro and Kathy Anne Frye	Durham, NC
Selah Allen	Rodney and Rhea Allen	Stonington, IL
Madison Barr	Ronald and Heather Barr	Beckley, WV
Kale Corley	Cindy and Joe Corley	Newcastle, WY
Allison Godwin	Benjamin and Joanna Godwin	Paonia, CO
Katlyn Louderback	Chad and Amber Shuck	Upton, WY
Hunter Melvin	Kermitt and Nina Melvin	Philippi, WV
Hannah Patterson	Brian and Christine Patterson	Saint Louis, MO

Scholarship America is the country’s largest private sector scholarship and educational support organization. It administers all aspects of the Arch Scholars Program, including the independent selection process.

The Arch Scholars Program has provided four-year scholarships to approximately 340 high school graduates since it began in 1989.

Arch Resources is a premier producer of high-quality metallurgical products for the global steel industry. The company operates large, modern and highly efficient mines that consistently set the industry standard for both mine safety and environmental stewardship. For more information, visit www.archrsc.com.

Department of Energy Invests \$8 Million for Projects to Develop Algae-Based Technologies to Capture Carbon Dioxide for Use in Products / June 23, 2021

WASHINGTON, D.C. — Today, the U.S. Department of Energy’s Office of Fossil Energy and Carbon Management (FECM) announced \$8 million in federal funding for four projects to develop and test technologies that capture and utilize carbon dioxide (CO₂) from power systems or other industrial sources to create valuable products and services, biomass and bi-products. Using algae, the selected projects will develop conversion technologies to decrease emissions, helping to reach the Biden-Harris Administration’s goal of net zero emissions by 2050.

“Capturing and utilizing CO₂ from sources across power and industrial sectors is critical to fighting climate change — and to creating new jobs and opportunities in hard hit communities across the country,” said **Dr. Jennifer Wilcox, Acting Assistant Secretary for Fossil Energy and Carbon Management**. “These projects represent an important step in those efforts.”

“Researchers and companies in San Diego have shown algae has the potential to change the way we produce fuel, manufacture products, and more. This funding awarded to Global Algae Innovations will advance their crucial efforts to develop and deploy technology that enables economical, sustainable production of algae products,” said **U.S. Representative Scott Peters**. “We must continue to invest in these kinds of innovative projects so that we can take advantage of the many benefits algae has to offer, including to combat the climate crisis.”

“Congratulations to the University of Illinois on receiving this nearly \$2 million federal investment through the Department of Energy,” said **U.S. Representative Rodney Davis**. “This grant will fund research to make algae-based carbon capture more cost effective.”

FECM and the National Energy Technology Laboratory (NETL) will manage the following four projects:

- *Carbon Capture and Utilization for Protein and Fatty Acids* — **Global Algae Innovations** (San Diego, California) will develop a technology suite to lower production costs, making algae products competitive in commodity food, chemical, polymer and animal feed markets that are commensurate with utility- and industrial-scale application.
DOE Funding: \$2,000,000; **Non-DOE Funding:** \$500,000; **Total Value:** \$2,500,000
- *Engineering-Scale Validation of Novel Algae CO₂ Capture and Bioproducts Technology* — **Helios-NRG, LLC** (Amherst, New York) plans to develop a novel algae technology to capture CO₂ from carbon-based power plants and convert it to valuable products that generate revenue.
DOE Funding: \$1,999,228; **Non-DOE Funding:** \$499,802; **Total Value:** \$2,499,030
- *Continuous Algae-based Carbon Capture and Utilization (CACCU) to Transform Economics and*

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Environmental Impacts — **Texas A&M AgriLife Research** (College Station, Texas) aims to integrate cutting-edge sorbent-based CO₂ capture and algae-based technologies to produce value-added products and algal biomass from flue gas at ultra-high yield and low costs. The project features (1) a synthetic biology design that triggers algal cells auto-sedimentation with high solid load, which allows continuous cultivation by periodic auto-cell removal/harvesting to maintain optimal growth rate and low energy cost; (2) a high-capacity, low-cost and energy-efficient sorbent that allows CO₂ storage at night and controlled release during daytime cultures; and (3) hydrogel-based phosphate, ammonia and bicarbonate controlled delivery, which will greatly enhance algae productivity, reduce CO₂ loss and media cost and mitigate the need for high alkaline-based CO₂ storage, enabling the utilization of a rapidly growing strain. Moreover, Texas A&M AgriLife Research will use machine learning, process control and techno-economic analysis (TEA) and life cycle analysis (LCA) models to evaluate and optimize carbon capture and utilization efficiency, costs and scale-up feasibility for producing biomass and byproducts from flue gas.

DOE Funding: \$2,000,000; **Non-DOE Funding:** \$507,202; **Total Value:** \$2,507,202

- *Improving the Cost-Effectiveness of Algal CO₂ Utilization by Synergistic Integration with Power Plant and Wastewater Treatment Operations* — **University of Illinois** (Champaign, Illinois) plans to demonstrate an engineering-scale open raceway pond algae cultivation system, including the integration of technologies that utilize carbon-based power plant CO₂ and wastewater nutrient inputs, as well as decrease CO₂ emissions and cost.

DOE Funding: \$1,997,436; **Non-DOE Funding:** \$501,660; **Total Value:** \$2,499,096

These projects will support the goals of FECM's Carbon Utilization Program to lower the near-term cost of carbon capture through the creation of value-added products from the conversion of carbon dioxide.

FECM funds research and development (R&D) projects to reduce the cost of and decarbonize power generation and industrial sources, and to remove CO₂ from the atmosphere to further the sustainable use of the nation's energy resources. To learn more, visit the FECM website, sign up for FECM news announcements, and visit the NETL website.

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With technology, coal can be part of the energy future / 20 May, 2021.

Source: World Coal Association

The past month has been appropriately climactic for the coal industry and all energy sources.

The Independent Energy Agency announced that global CO2 emissions are on course to surge by 1.5 billion tonnes in 2021, the second-largest increase in history.

This effectively reverses any emissions gains made during the worst effects of the COVID-19 pandemic last year. And it represents the largest annual increase in emissions since 2010, during the Global Financial Crisis carbon-intensive recovery.

It coincides with US President Joe Biden, and his climate envoy, Senator John Kerry, leading a virtual “Zoom” climate summit which invited 40 world leaders to discuss North America’s aspirations to halve emissions by 2030.

Suddenly, 2030 is the new 2050.

Significant to these developments was the Australian government’s announcement that it was investing more than half a billion dollars in clean technology, particularly carbon capture and storage (CCS) and hydrogen. Incidentally, 95 per cent of hydrogen is derived from fossil fuels such as coal.

These developments coincided with the World Coal Association’s program to begin a new “clean coal” conversation, one that focuses on the role coal needs to play in meeting a net zero emissions future, and the need for all energy sources to be given equal consideration in how decarbonisation targets are met.

This last point is where the energy popularity contest kicks in and coal is disqualified by judges who simply deem it “unpopular.”

Being unpopular is not a reason for exclusion. If coal is going to be relegated, let it be based on technology, not whether it is liked or not.



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The coal industry should probably take its fair share of blame for not articulating its story well enough and in a truly collaborative way.

That is the essence of our new conversation: reset, reconnect and respond (proactively). The fact of the matter is coal can and should be decarbonised by technologies which already exist.

Two of these, CCS and Coal to Hydrogen, are identified in Australia's zero emissions pathway but many more exist. They include High Efficiency Low Emissions Technology (HELE), Coal Gasification, Integrated Gasification Combined Cycle (IGCC), Coal to Biomass Co-Combustion, and Pollution Control Technology. These are available now and they are all tested and proven.

Investment in these clean coal technologies will facilitate speedy deployment.

Australia is proving itself an exemplar in laying the foundations for technology-led energy solutions.

The joint Japanese/Australian Hydrogen Energy Supply Chain (HESC) is producing hydrogen from coal in Victoria and exporting it to Japan. More projects like it are planned.

Additionally, the role of coal in supporting renewables needs to be better understood. The World Coal Association supports renewables and we want to make that abundantly clear.


This is not an "us and them" argument.

It is "us and us".

The point conveniently overlooked in the anti-coal rhetoric is that coal provides stable grid-based electricity when the wind doesn't blow and the sun doesn't shine. Even the manufacture of a wind turbine is dependent on steel. Each turbine requires 260 tonnes of steel, made from 170 tonnes of coal and 300 tonnes of iron ore.

Industry relies on coal for 70 per cent of the world's steel and 90 per cent of its cement. How are we going to modernise without it?

Modelling by the best science that exists, including the IEA and the Intergovernmental Panel on Climate Change (IPCC), agrees that there are no near-term credible scenarios for a future energy system based on renewables alone. Coal and renewables are therefore co-dependent and must coexist.



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There is nothing preventing the provision of energy to those who currently lack it.

So, let's stop all the "virtue-signalling".

Coal has its place as a clean commodity.

The conversation needs to transform and address how we are going to "phase in" new technology rather than how we are going to "phase out" coal.

I believe in clean coal technologies the same way I believe in renewables. All energy sources have their strengths and limitations. But they are all part of the energy transformation solution.

If our motive is truly to deliver a sustainable, net zero-emission future — and given the facts — then isn't it time to start a different inclusive conversation?

Michelle Manook is CEO of the World Coal Association.

Author World Coal Association

NMA Supports "Abandoned Mine Land Reclamation Fee Reauthorization Act" / May 12, 2021

WASHINGTON, D.C. – The National Mining Association (NMA) today applauded the "Abandoned Mine Land Reclamation Fee Reauthorization Act," introduced by Wyoming Senators John Barrasso and Cynthia Lummis, which would reauthorize the fee for seven years, ensuring a steady source of revenue for cleanup activities by right-sizing the fees to better reflect the state of the industry, while also directing the Department of Interior to identify cost savings and tighten oversight of expenditures.

"The coal industry is committed to supporting the remediation of abandoned mines and has already contributed \$12 billion to those efforts over the years. Unfortunately, much of those funds have been expended on administrative costs, or gone to projects other than the cleanup of priority mine sites. The coal industry is not in a position to throw more good money after bad so instituting the reforms necessary to maintain a sustainable fund is essential. Importantly, Sen. Barrasso's bill will encourage better program controls and oversight, while also acknowledging market realities, and deserves bipartisan support to ensure the ongoing successful remediation intended under the AML program," said Rich Nolan, NMA President and CEO.

Originally created in 1977, the AML fee is set to expire on September 30, 2021; the bill would extend the fee until 2028.

To date, the coal industry has paid nearly \$12 billion into the AML fund to reclaim legacy abandoned mines only to see much of those funds disappear. Due to prior weaknesses in program management, just one in three dollars spent by the fund has gone to priority coal projects that the fund was intended to rehabilitate. A General Accounting Office (GAO) report found that between 1985-1990 \$360 million, or 28 percent, of the \$1.3 billion spent during that period was used for federal and state administrative expenses.



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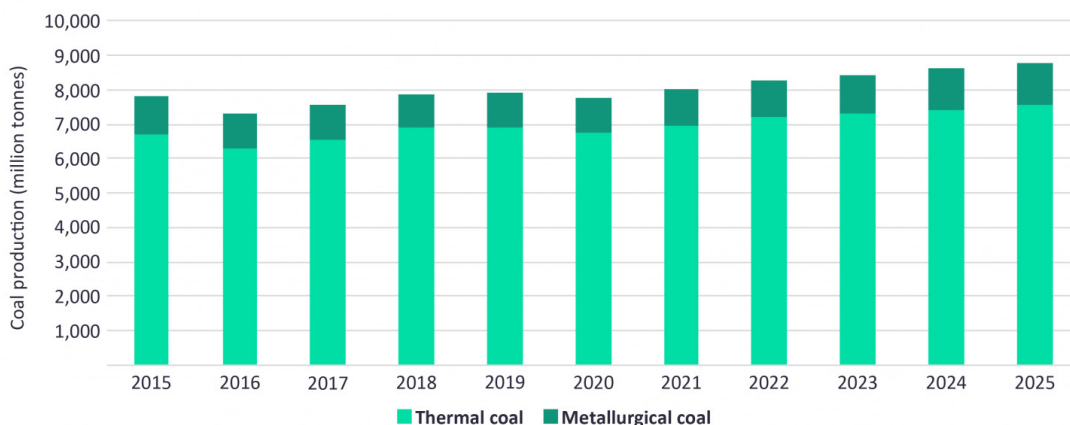
Global coal production expected to rise by 3.5% in 2021, says GlobalData / 08 Apr 2021

Global coal output is estimated to have declined by 2% in 2020 due to COVID-19-related lockdowns and restrictions, with significant reductions observed in the US (23.6%), Indonesia (13.1%), Russia (8.1%) and Australia (5.5%). These were only partially offset by increases in China (4%) and India (0.7%). Additionally, during the last year, there was an estimated 3.5% reduction in the global thermal coal demand, while the world's metallurgical coal demand fell by 5.9%. However, global coal production is set to recover by 3.5% to 8bnt in 2021, according to GlobalData, a leading data and analytics company.

With the US coal industry already challenged by high production costs and low natural gas prices, the country's output was severely impacted by the COVID-19 pandemic, with key companies halting their operations as part of preventive measures. Additionally, a decline in domestic demand as well as export market demand affected output from Indonesia and Russia.

Global coal production is expected to grow at a compound annual growth rate (CAGR) of 2.3% between 2021 and 2025 to reach 8.8bnt in 2025. While thermal coal production is expected to have a relatively marginal 2% CAGR to reach 7,549.6Mt, metallurgical coal is forecast to register stronger growth of 4.2% per year, to reach 1,216.9Mt in 2025.

Global coal production, 2015 - 2025



Source: GlobalData, Mining Intelligence Center

 GlobalData.

Vinneth Bajaj, Associate Project Manager at GlobalData, comments: “India will be the largest contributor to this growth. Its production is expected to increase from 777.7Mt in 2020 to 1.2bnt in 2025. This will be followed by China, Indonesia, Australia and South Africa, whose combined production is expected to increase from an estimated 5bnt in 2021 to 5.43bnt in 2025. Other countries that are anticipated to bounce back strongly during 2021 include the US (9.3%) and Russia (8.4%). In contrast, production from Australia is expected to decline by around 4% in 2021, mainly because of concerns over the future of China-Australia trade.”

Looking ahead, 2.5% growth is expected in China in 2021, supported by the commencement of projects including Dahaize and Xinjiang Zhundongs. In addition, India, which, after flagging coal as an essential commodity, reported 0.7% growth in 2020, is expected to deliver 9% growth in output to reach 827.8Mt in 2021. The commercial auction of coal mines in India is expected to be a key production booster for the world's second-largest coal producer. In early 2020, the Indian Government gave clearance to begin operations for 10 coal projects that included Kusmunda (62.5Mt at full capacity) in Chhattisgarh, and Rajmahal (24Mt) and Lakhapur (21Mt) in Jharkhand.

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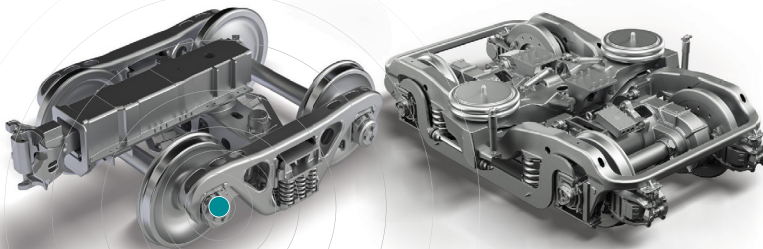
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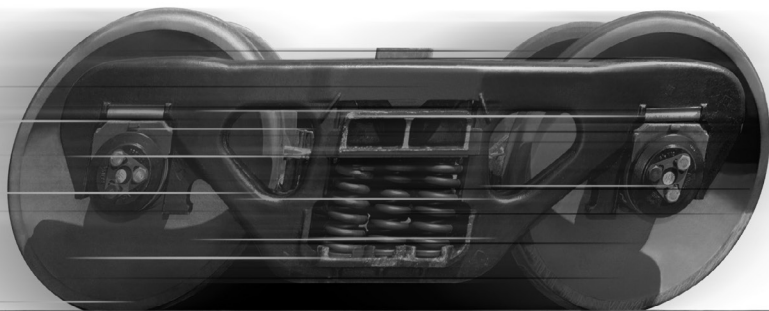
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Please note due to the current COVID-19 restrictions on travel, gatherings, meetings, conventions and events, we suggest that you contact the respective associations for updates on conferences. We have provided here a list of contacts for your convenience.

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RMEL: **(303) 865-5544**

American Coal Council: **(202) 756-4540**

National Mining Association: **(202) 463-2600**

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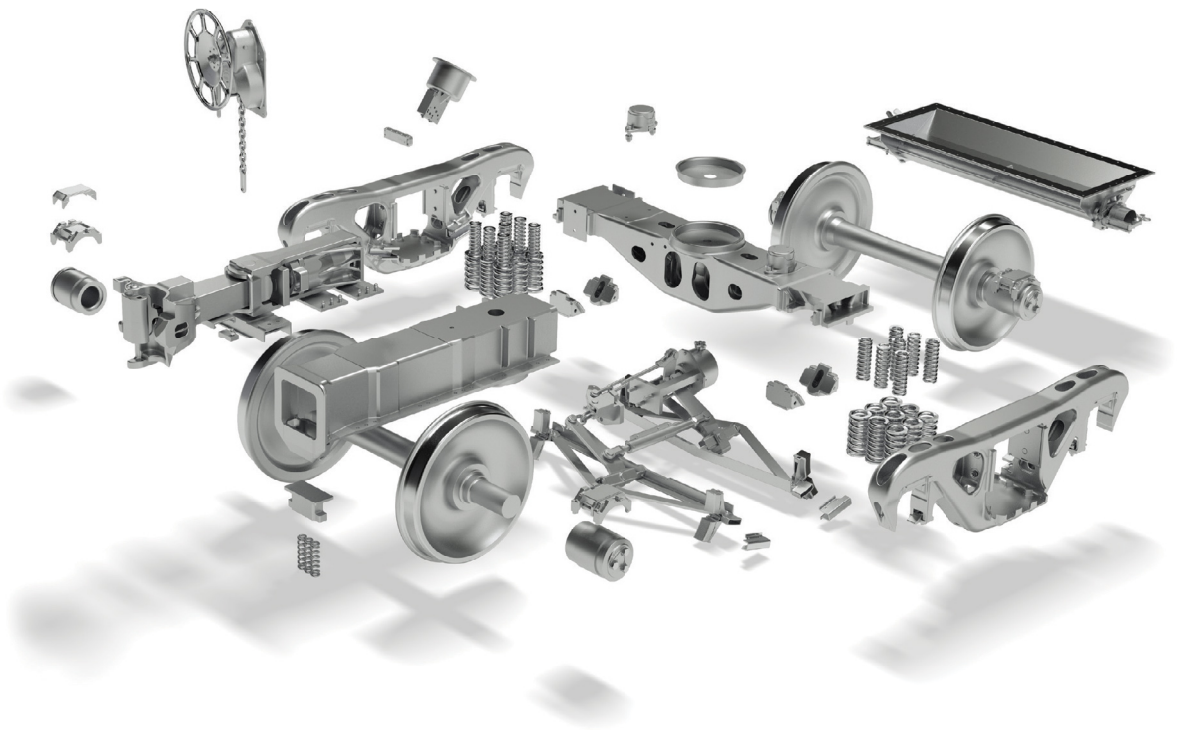
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