



# coal ENERGY

Issue 3 • 2021

From the Mine to the Utility

*DOE Funds  
Coal-Based 3D Printing  
Materials Research*

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# letter from THE PUBLISHER



OCTOBER 2021

Dear readers,

Welcome to Issue 3, 2021 of **Coal Energy**.

In this issue, we take a look at the DOE's funding of coal based 3D printing materials research. We also hear from Rich Nolan, president and CEO of the National Mining Association, regarding

energy reliability and affordability during the transition.

In every issue, **Coal Energy** includes a world news piece to bring the reader up to date on import/export and investment news around the globe. In this issue, our world news section explains how a report from ACE and WCA shows that modest investment in clean coal technology can significantly cut emissions.

**Coal Energy** is pleased to bring back our stocks and market department to allow our readers a quick glance at trend investing.

**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.

**Coal Energy** is also proud to be able to provide quick news updates gathered from various sources to create an easy wealth of industry information at the click of a button. From newly released equipment, to quarterly finance news, you can easily review important industry happenings in our press release department.

Please visit our website, [www.coalenergyonline.com](http://www.coalenergyonline.com), for current and prior editions of **Coal Energy**.

You can also like and share our Facebook page ([www.facebook.com/coalenergyonline](http://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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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](mailto:maria@martonickpublications.com).

Warmest regards,

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>

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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.aca-ausa.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.

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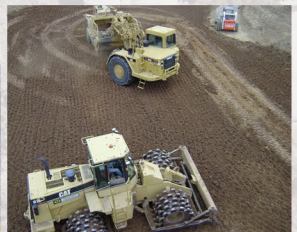
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US DOE TO FUND  
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# 3D PRINTING

## MATERIALS RESEARCH

The 3D printing industry, like many others, is increasingly pumping out sustainability initiatives to decrease both our carbon footprint and our use of synthetic polymers.

The US Department of Energy's (DOE) Office of Fossil Energy and Carbon Management (FECM) recently announced almost \$7 million in funding to support seven projects focused on developing coal waste-based materials for additive manufacturing and researching coal-derived graphite materials. By enabling better use of coal waste products, the project is ultimately intended to accelerate the country's goal of transitioning to 100% renewable green energy by the year 2035.

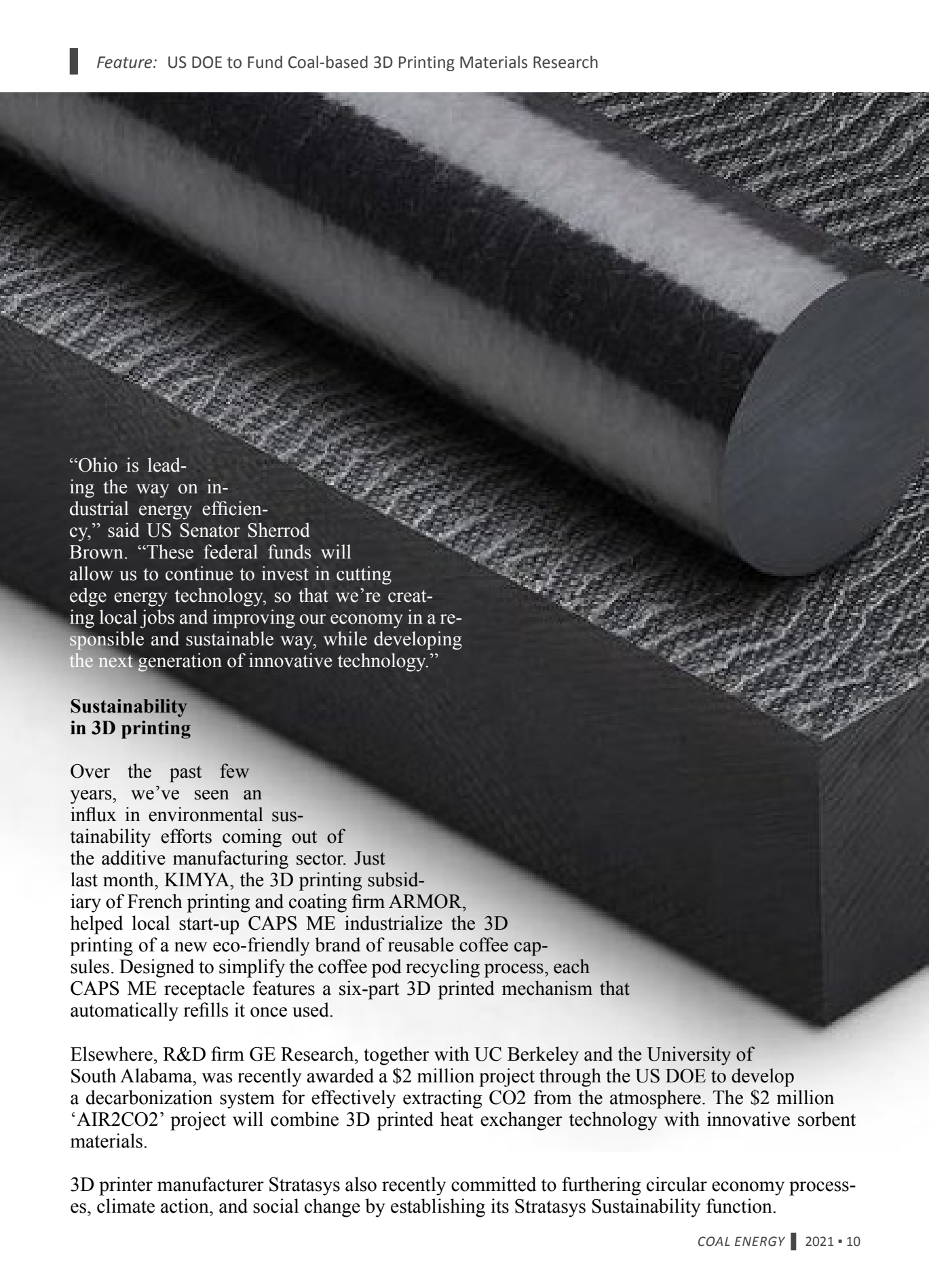
## \$7 million for seven projects

Overseen by the National Energy Technology Laboratory's (NETL) Carbon Ore Processing Program, the seven sustainability projects will aim to research and develop novel technologies to better utilize coal waste products such as tailings and ash. The organizations involved will either develop new filaments for 3D printing, or develop sustainable graphite-based materials for applications such as batteries and fuel cells.

### The seven selected projects are as follows:

- 'Coal-Enhanced PEEK Filament Production for Additive Manufacturing in Industrial Services' – Baker Hughes Energy Transition.
- 'Fused Deposition Modeling Additive Manufacturing of Carbonized Structures Via Waste-Enhanced Filaments' – Ohio University.
- 'Coal Waste-Enhanced Filaments for Additive Manufacturing of High-Temperature Plastics and Ceramic Composites' – Semplastics.
- 'Lab-scale Production of Coal-Derived Graphene Particle Bonded Filaments' – University of Delaware.
- 'Utilization of Carbon Supply Chain Wastes and Byproducts to Manufacture Graphite for Energy Storage Applications' – Ohio University.
- 'Molded Graphite Products Synthesized from Waste Coal' – Touchstone Research Laboratory.
- 'Advanced Processing of Coal and Coal Waste to Produce Graphite for Fast-Charging Lithium-Ion Battery Anode' – University of North Dakota Energy & Environmental Research Center.





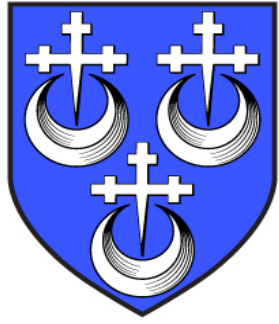
“Ohio is leading the way on industrial energy efficiency,” said US Senator Sherrod Brown. “These federal funds will allow us to continue to invest in cutting edge energy technology, so that we’re creating local jobs and improving our economy in a responsible and sustainable way, while developing the next generation of innovative technology.”

### **Sustainability in 3D printing**

Over the past few years, we’ve seen an influx in environmental sustainability efforts coming out of the additive manufacturing sector. Just last month, KIMYA, the 3D printing subsidiary of French printing and coating firm ARMOR, helped local start-up CAPS ME industrialize the 3D printing of a new eco-friendly brand of reusable coffee capsules. Designed to simplify the coffee pod recycling process, each CAPS ME receptacle features a six-part 3D printed mechanism that automatically refills it once used.

Elsewhere, R&D firm GE Research, together with UC Berkeley and the University of South Alabama, was recently awarded a \$2 million project through the US DOE to develop a decarbonization system for effectively extracting CO<sub>2</sub> from the atmosphere. The \$2 million ‘AIR2CO<sub>2</sub>’ project will combine 3D printed heat exchanger technology with innovative sorbent materials.

3D printer manufacturer Stratasys also recently committed to furthering circular economy processes, climate action, and social change by establishing its Stratasys Sustainability function.



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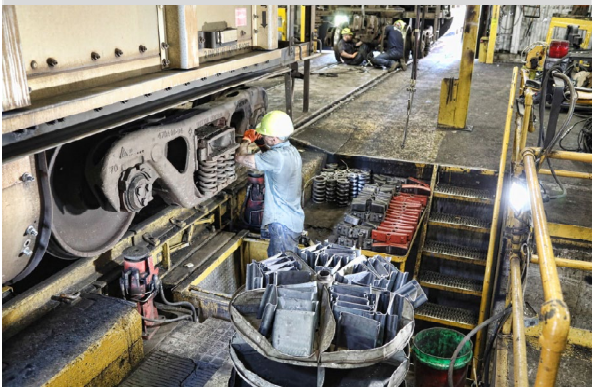


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# Don't Sabotage Energy Reliability and Affordability /

October 03, 2021 by Rich Nolan (president and CEO of the National Mining Association)



The energy transition is happening. But how it proceeds, at what speed, and with what guard rails remains to be seen. The importance of managing this transition carefully, responsibly, and not sacrificing the reliability and affordability of our power supply can't be overstated.

Unfortunately, included in the House Reconciliation bill now working its way through Congress is a \$150 billion proposal that could turn already emerging reliability and affordability concerns into a full-blown crisis.

This proposal is an incentive program on steroids that aims to reshape the nation's electricity mix in just nine short years. Sen. Joe Manchin of West Virginia, likely the key vote on whether the plan, as proposed, becomes law, has already expressed deep reservations. He has said, **“We are going to leave ourselves in a situation by 2030 that we are not going to have reliabil-**

**ity.”**

At a recent Senate Energy and Natural Resources Committee hearing with the Federal Energy Regulatory Commission, which regulates the nation's electricity markets, Manchin's concerns were hardly put to rest. In fact, two commissioners warned the proposed path forward would make energy cost increases and reliability issues “inevitable.” Commissioner James Danly went so far as to say the proposal drops an **“H-bomb”** into the middle of electricity markets, later adding, **“consequences will be profound, disruptive, and incalculable.”**

Danly is hardly the only energy regulator, expert, or policymaker to express concern over the speed of the energy transition and the threat it poses to a grid unprepared for it. The CEO of the North American Electric Reliability Corporation, which directly oversees the reliability of the grid, warned of generating capacity

shortfalls this summer and added, “I know that operators and planners are working very, very hard to preserve reliability, but they’re continually asked to do so and manage your grid under more and more challenging conditions.”

Following tragic blackouts in Texas this past February, rolling blackouts in California and much of the Western U.S. this summer and last, the reliability of the nation’s grid is already showing signs it needs shoring up, not a push over the edge.

Poor planning and a failure to value dispatchable fuel diversity and security provided by the nation’s mix of coal, nuclear, and natural gas plants is screaming out for caution. Anyone unconvinced of the potential danger of racing ahead with an accelerated transition need only look across the Atlantic.

Europe’s accelerated pivot away from traditional sources of power to heavily subsidized renewable energy, and overreliance on natural gas as a bridge fuel, is spiraling towards economic catastrophe. There are well-founded concerns Europe won’t have the energy supplies it needs to keep the lights on, homes warm, and industry operating this winter.

Tight energy supplies have already meant record natural gas and electricity prices. Wholesale electricity prices in Germany have jumped 60 percent this year. In Spain, electricity prices are double what they were just two years ago before the pandemic shaved power demand. And in Britain, rising fuel prices, buffeted by weeks of low wind generation, have meant utilities have already raised electricity rates twice this year.

The alarm that is sounding to proceed with caution and ensure energy policy doesn’t sabotage the affordability and reliability of our energy supply is deafening. Now, more than ever, energy policy is in desperate need of careful planning and thoughtful debate. Hitting the accelerator on a policy that undercuts grid reliability while driving up energy costs, especially on those that can least afford them, is the exact opposite of building back better. As we still fight to emerge from the pandemic and the economic turmoil it has wrought, the last thing Americans need is an energy crisis of our own making.

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# PRESS RELEASES

## America's Power Statement on FERC's Approval to Allow Coal-Supply Chain Vote Within MISO's Advisory Committee / By America's

Power / October 6, 2021

Washington, D.C. – Today, the Federal Energy Regulatory Commission (FERC) approved a proposal from the Midcontinent Independent System Operator (MISO) to give voting rights to the recently created Affiliate Sector within MISO's Advisory Committee. By providing a vote to the Affiliate Sector, currently made up by entities representing coal producers, electricity generators, railroads, barge operators and suppliers to the coal industry, along with major industrial users and chambers of commerce, MISO's Management, Board of Directors, and other stakeholders have helped to ensure the unique perspective of traditional dispatchable power sources are heard as part of the MISO stakeholder process.

America's Power issued the following statement by Michelle Bloodworth, President and CEO:

"We are pleased that FERC approved MISO's proposal to provide voting rights to the Affiliate Sector because it recognizes the importance of eventually ensuring the entire coal supply chain has a full and equal voice in the grid operator's

stakeholder process. MISO's coal fleet, which provides reliable dispatchable power across the 15 states within their service territory, is the largest in the country, representing nearly one fourth of the nation's coal fleet," said Michelle Bloodworth, President and CEO of America's Power. "We commend MISO's Management and Board of Directors for taking this step and recognizing the need to hear from our unique voice as they contemplate the reforms necessary to ensure their grid remains both resilient and reliable and energy remains affordable in this time of transition away from traditional dispatchable sources. America's Power looks forward to working with the other 20 members of the Affiliate Sector to respectfully encourage MISO to pursue policies that properly value the attributes of their coal fleet and the entire coal supply chain because of the important role they play in supporting the reliability and resilience of the electric grid," continued Ms. Bloodworth.

\*\*\*

*America's Power is a partnership of industries involved in producing electricity from coal.*



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# DOE Invests Nearly \$7 Million to Put Coal Wastes to Work, Creating Products for a Clean Energy Economy / October 5, 2021

WASHINGTON, D.C. – Today, the U.S. Department of Energy’s (DOE) Office of Fossil Energy and Carbon Management (FECM) announced nearly \$7 million in funding for seven projects that will develop coal-based filaments or resins for additive manufacturing and advance research and development (R&D) of coal-derived graphite. This investment supports the development of new and safe uses for coal-wastes, which in turn will spur the creation of good-paying jobs in frontline communities as the nation transitions to 100 percent clean electricity by 2035.

In order to extract the full economic value from coal wastes in a sustainable way, innovation is needed. The National Energy Technology Laboratory’s (NETL) **Carbon Ore Processing Program** seeks to address and deliver solutions to this challenge by supporting novel technologies that produce valuable products from coal waste-derived sources through laboratory- and pilot-scale R&D.

The projects selected today, to be managed by NETL’s Carbon Ore Processing Program, will use materials derived from coal wastes like tailings and ash for additive manufacturing via 3D printing and

to produce graphite that is used to manufacture batteries, fuel cells and energy storage devices. These applications align with the goals of the Biden-Harris Administration to expand and develop existing and new environmentally sound and safe uses for coal waste and deploy these advanced technologies to help support economically distressed power plant and coal communities.

“West Virginia coal has powered the American economy for decades, and today’s funding announcement will advance efforts to use coal-waste in developing valuable products, supporting our environmental objectives and the coal value chain. West Virginia’s abundant coal resources have proven attributes that make it a prime feed-stock for high-end valuable products and we need to ensure we are investing the resources needed to harness the full value of this important natural resource in the cleanest and most efficient way possible. Doing so has the potential to provide new economic opportunities and revitalize traditional energy producing communities who have been hit the hardest by the energy transition,” said **U.S. Senator Joe Manchin, Chairman of the Senate Energy and Natural Resources Committee.**



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“Ohio is leading the way on industrial energy efficiency,” said U.S. Senator Sherrod Brown. “These federal funds will allow us to continue to invest in cutting edge energy technology, so that we’re creating local jobs and improving our economy in a responsible and sustainable way, while developing the next generation of innovative technology.”

“The Energy & Environmental Research Center at the University of North Dakota is working to find innovative ways to help North Dakota’s lignite coal producers meet the increasing demands for lithium-ion batteries,” said U.S. Senator Kevin Cramer. “I’m grateful their work to support this vital sector of our energy industry is receiving the backing of the Department of Energy with today’s award.”  
 “Given North Dakota’s abundant lignite resources, this funding to EERC will help advance new research and develop additional ways to utilize coal-based products to help meet growing demand for lithium-ion batteries,” said U.S. Senator John Hoeven.

“Developing a market for coal-based products is vital for the future of our coal communities, and can provide a vital lifeline for miners and their families,” said U.S. Representative David B. McKinley, P.E. “I’m especially proud to see Touchstone on the leading edge of this work. Their research has exciting potential in everything from aerospace to building materials. This funding is vital to continue their important work.”

“West Virginia’s coal miners have worked hard to keep the lights on and power this country for generations. Research and development of advance coal technologies is important not only to the future of coal, but also to the opportunities that are available for West Virginians. Touchstone has been a leader in revolutionizing new technology that reduces waste from coal facilities, which was why I was proud to advocate on behalf of this project last August. Coal remains the lifeblood of West Virginia’s energy economy, and this funding will help us continue to grow and strengthen this important sector,” U.S. Senator Shelley Moore Capito said.

**The selected projects are as follows:**

- *Coal-Enhanced PEEK Filament Production for Additive Manufacturing in Industrial Services — Baker Hughes Energy Transition LLC (Houston, Texas)*
- *Fused Deposition Modeling Additive Manufacturing of Carbonized Structures Via Waste-Enhanced Filaments — Ohio University (Athens, Ohio)*
- *Coal Waste-Enhanced Filaments for Additive Manufacturing of High-Temperature Plastics and Ceramic Composites — Semplastics EHC (Oviedo, Florida)*
- *Lab-scale Production of Coal-Derived*

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- *Molded Graphite Products Synthesized from Waste Coal — **Touchstone Research Laboratory** (Triadelphia, West Virginia)*
- *Advanced Processing of Coal and Coal Waste to Produce Graphite for Fast-Charg-*

*ing Lithium-Ion Battery Anode — **University of North Dakota Energy & Environmental Research Center** (Grand Forks, North Dakota)*

FECM funds research, development, demonstration and deployment projects to decarbonize power generation and industrial sources, to remove carbon dioxide from the atmosphere and to mitigate the environmental impacts of fossil fuel use. To learn more, visit the **FECM website**, sign up for FECM news announcements and visit the **NETL website**.

## Navajo Company Takes Over Operation Of Coal Mine It Owns /

October 1st, 2021 at 07:10 am

FARMINGTON, N.M. (AP) — A Navajo Nation company is taking over the operation of a coal mine it owns in northwestern New Mexico.

The Navajo Transitional Energy Co. has owned the Navajo Mine since 2013 but had contracted with a subsidiary of the North American Coal Corp. to run it.

Clark Moseley, the company's chief executive, said the Navajo company will take over on Friday.

The mine that feeds the adjacent Four Corners Power Plant has nearly 400 employees — 85% of whom are Native American. Moseley said the Navajo Transitional Energy Co. will retain the workforce.

The company is one of the largest coal producers in the United States as the resource increasingly is falling out of favor. The company owns three coal mines in Montana and Wyoming, and a share of the Four Corners Power Plant near Farmington, New Mexico.



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# NMA Statement on Senate Natural Resources FERC Hearing, Stressing the Need for Caution in Energy Transition /

September 28, 2021

WASHINGTON, D.C. – The National Mining Association (NMA) issued the following statement on today’s Senate Committee on Natural Resources Full Committee Hearing to Review Administration of Laws Within the Federal Energy Regulatory Commission’s (FERC’s) Jurisdiction.

During the hearing FERC commissioners and members of Congress discussed flaws with our current energy market design, along with the incredible challenges associated with maintaining the reliability of the power system and protecting consumers from paying unreasonable prices for electricity.

**Rich Nolan, NMA President and CEO:**

“While it is encouraging to hear commissioners and senators echoing many of the reliability concerns industry has warned of for years, at the very same moment, as part of reconcili-

ation, proposals are being contemplated in the House that will only exacerbate the crisis. By increasing royalty rates and other fees, making lease terms less favorable, and through other penalties proposed for the coal industry, Congress will be adding additional competitive obstacles to the very fuel that can offer price and availability stability. Congress must act decisively to require adequate planning for the grid and incentivize the maintenance of traditional resources of power capable of 24/7 operations – the Clean Electricity Payment Program does just the opposite. Incentivizing the transition of our grid to one based on variable power before the required infrastructure to support such a system is even permitted or built is a predictable catastrophe. Congress must change course and support the reliability and affordability of electricity for Americans.”

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# Leaders in Mine Safety and Technology Honored by NMA and NIOSH /

September 14, 2021

LAS VEGAS – The National Mining Association (NMA) will gather today at MINExpo INTERNATIONAL® 2021 to honor outstanding achievements in mine safety and technology.

## Safety

The NMA's Sentinels of Safety Award recognizes coal and mineral mining operations in 10 categories for recording the most hours in a calendar year without a single lost-time injury. A minimum of 4,000 hours is required for award consideration. The award categories reflect the safety accomplishments of both small and large mines.

Forty American mining operations – 12 coal mines and 28 mineral/metal mines – will be honored with the award recognizing performance in 2019 and 2020.

“We are pleased to be able to come together once again in-person to celebrate these great accomplishments in safety,” said Rich Nolan, NMA president and CEO. “The Sentinels of Safety Award acknowledges outstanding achievements in safety and, if ever there were a time to do so, it is now. When the pandemic hit, many industries shut down or stayed home. But the demand for mined materials for virtually every global supply chain never stopped and our nation's miners remained focus on delivering for every American. The industry has come together to double-down on our safety efforts, learn about and discuss best practices with each other, and keep our miners as safe as possible throughout this pandemic; there is a great deal to celebrate in those efforts.”

Initiated in 1925 by then Commerce Secretary Herbert Hoover, a former mining engineer, the Sentinels of Safety Award program remains the nation's most prestigious recognition of mine safety and has helped foster a strong safety commitment on the part of U.S. mines.

**Note: all recipients marked with an asterisk\* are members of the NMA.**

**Recipients for 2020 include the following:**

### Large Group Category

- Large Coal Processing, No. 7 Mine, Warrior Met Coal, Inc.\* Brookwood, Ala.
- Large Metal/Nonmetal Mill, Freeport-McMoRan Chino Mines Company, Freeport-McMoRan Inc.\* Bayard, N.M.
- Large Surface Coal, San Miguel Lignite Mine, NACG Texas, Inc. Christine, Texas

- Large Underground Coal, Century Mine, Belmont County Coal Resources, Inc.\* Beallsville, Ohio
- Large Underground Metal, Cortez District, Nevada Gold Mines LLC\* Crescent Valley, Nev.
- Large Bank or Pit, Tabasco Pit, Upper Valley Materials, LLC Penitas, Texas
- Large Dredge, Briggs Plant, Fordyce Holdings Inc. Victoria, Texas
- Large Open Pit, Goldstrike Mine, Nevada Gold Mines LLC\* Carlin, Nev.
- Large Quarry, Pennsuko Quarry, Titan Florida LLC Medley, Fla.
- Large Underground Nonmetal, Intrepid Potash – East, Intrepid Potash – New Mexico, LLC Carlsbad, N.M.

### Small Group Category

- Small Coal Processing, Buckskin Mine, Buckskin Mining Company Gillette, Wyo.
- Small Underground Metal, Eagle Mine, Eagle Mine, LLC Champion, Mich.
- Small Bank or Pit, Odessa Sand, Stone, Gravel, Lavette Development Corp. Ithaca, N.Y.
- Small Dredge, Riverside Plant #11, Holiday Sand & Gravel Lenexa, Kans.
- Small Metal/Nonmetal Mill, Carmeuse – Portage Operation, O-N Minerals Portage Company, LLC Portage, Ind.
- Small Open Pit, L R Chapman Inc., L R Chapman Inc. Lewisport, Ky.
- Small Quarry, Yard 99 – Ashkum, VCNA Prairie LLC Ashkum, Ill.
- Small Surface Coal, Barrackville Refuse Pile, LP Mineral LLC Barrackville, W.Va.
- Small Underground Coal, Genesis Mine, Kentucky Land Resources, Inc.\* Centertown, Ky.
- Small Underground Nonmetal, Rich Hill Underground Mine & Plant, Hanson Aggregates Pennsylvania LLC Connellsville, Pa.

Last year's ceremony was postponed due to the pandemic; winners will be recognized at this year's event. Winners from 2019 were:

### Large Group Category

- Large Surface Coal, Kosse Strip, Luminant Mining Company\* Kosse, Texas
- Large Coal Processing, MC #1 Mine, M-Class Mining LLC Franklin County, Ill.
- Large Metal/Nonmetal Mill, North Shore

Mining Company, North Shore Mining Company Silver Bay, Minn.

- Large Underground Coal, Leer Mine, ACI Tygart Valley, LLC\* Grafton, W.Va.
- Large Underground Metal, Cortez District Underground, Nevada Gold Mines LLC\* Crescent Valley, Nev.
- Large Bank or Pit, Vista Sand, Vista Proprietary & Logistics Granbury, Texas
- Large Dredge, Briggs Plant, Fordyce Holdings Victoria, Texas
- Large Open Pit, Boron Operations, US Borax, Inc.\* Boron, Calif.
- Large Quarry, Tower Rock Stone – St. Genevieve FA, Tower Rock Stone Company Sainte Genevieve, Mo.
- Large Underground Nonmetal, Mississippi Lime Company – St. Genevieve, Mississippi Lime Co. Sainte Genevieve, Mo.

### Small Group Category

- Small Surface Coal, Highwall Miner #1, Ramaco Resources LLC\* Verner, W.Va.
- Small Coal Processing, Black Thunder, Thunder Basin Coal Company LLC\* Wright, Wyo.
- Small Underground Metal, Eagle Mine, Eagle Mine LLC Champion, Mich.
- Small Bank or Pit, U.S. Aggregates – Swisher Plant, Heritage Aggregate LLC Indianapolis, Ind.

- Small Dredge, Tarburton Pit, Pennsy Supply Inc. Kent, Del.
- Small Metal/Nonmetal Mill, Chattanooga Quarry, Martin Marietta Materials Chattanooga, Tenn.
- Small Open Pit, Edgar Minerals Inc., Edgar Minerals Inc. Hawthorne, Fla.
- Small Quarry, Kinkaid Stone Company, Kinkaid Stone Company Ava, Ill.
- Small Underground Coal, Access Energy, Deane Mining LLC Deane, Ky.
- Small Underground Nonmetal, Springfield Pike Mine & Plant, Hanson Aggregates Pennsylvania LLC Connellsville, Pa.

### Technology

In addition, on behalf of the U.S. National Institute of Occupational Safety and Health (NIOSH), the NMA will also recognize winners from this and last year with NIOSH's annual Mine Safety and Health Technology Innovation Awards. Honorees are selected due to the significant advancements they have made to enhance mine safety by applying technology or improved processes in innovative ways.

### The following companies will be recognized for 2021:

- Coeur Mining\* will be recognized for developing and utilizing technology to solve



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the exposure and risks associated with the COVID-19 pandemic.

- Matrix Design Group\* will be recognized for combining multiple technologies to improve proximity detection for battery scoops in underground coal mines.

The following companies will be recognized for 2020:

- Freeport-McMoRan\* will be recognized for developing the Haul Truck Op-

erator Scorecard, pairing multiple existing sensor technologies on haul trucks with big data technology to detect operator behaviors that fall outside of established safe operating practices.

- Matrix Design Group\* will be recognized for developing a system that uses artificial intelligence (AI) and machine learning to prevent collisions of mobile surface equipment, as well as collisions involving machines and workers.

## Dominion to partner on solar project in Virginia coalfields /

September 13, 2021

RICHMOND, Va. (AP) — A global conservation nonprofit and Virginia’s largest electricity utility announced plans Monday to develop what they say will be a large-scale solar project on former surface mines in the southwest Virginia coalfields.

Dominion Energy Virginia plans to repurpose about 1,200 acres (486 hectares) of the former Red Onion surface mine and surrounding properties for the 50-megawatt Highlands Solar project in Wise and Dickenson County, the company said in a news release with its project partner, The Nature Conservancy.

The project will be developed within The Nature Conservancy’s Cumberland Forest Project, a land conservation initiative launched in 2019, and adjacent areas.

Brad Kreps, director of The Nature Conservancy’s Clinch Valley Program, said in a statement the hope is the project will develop a model that can be replicated in other coal mining regions across the U.S.

Construction would tentatively begin in 2024 or 2025, subject to review and approval from state regulators.

The Nature Conservancy announced a similar initiative two months ago with two solar energy firms. Taken together, the utility-scale solar projects within the Cumberland Forest Project will cover nearly 1,700 acres (688 hectares) and generate an estimated 120 megawatts of solar energy, according to the news release.

Southwest Virginia has long been in search of economic development opportunities to boost the region facing population loss and a steep decline in coal

mining jobs. Solar energy, though more expensive to develop in remote, mountainous areas, has been seen as one possibility.

“Southwest Virginia has long been an energy leader, and the pursuit of solar projects on former mined lands represents an exciting new chapter and important opportunity for the region’s economic diversification,” Virginia Secretary of Commerce and Trade Brian Ball said in a statement.

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The project would also bring an unspecified increase in local tax revenues, the companies said.

Dominion Energy Virginia faces a 2045 deadline under sweeping clean energy legislation passed in 2020

to produce 100% of its electricity from carbon-free sources. Consumer advocates have warned customers will be looking at significant rate increases under the legislation.

## Oklahoma sues federal agency over coal mining oversight /

July 19, 2021

OKLAHOMA CITY (AP) — Oklahoma is suing the U.S. Department of the Interior over the federal agency’s plan to strip Oklahoma of its jurisdiction to regulate coal mining on tribal reservations, Gov. Kevin Stitt announced Monday.

The lawsuit, filed last week in federal court in Oklahoma City, names as defendants U.S. Secretary of the Interior Deb Haaland, the Office of Surface Mining Reclamation and Enforcement and that agency’s acting director, Glenda Owens.

The U.S. Department of the Interior notified the state earlier this year it planned to strip Oklahoma of its jurisdiction to regulate surface coal mining within the Muscogee Nation reservation following last year’s U.S. Supreme Court’s McGirt decision, which

determined the tribe’s reservation in eastern Oklahoma was never disestablished by Congress.

“The Department of the Interior and other defendants in this case are dead wrong about their decision,” Stitt said in a statement. “They are attempting to unlawfully federalize mines that have been regulated by Oklahoma for almost 40 years by ignoring the clear limitations in the McGirt decision.”

Stitt claims that the decision applies only to criminal jurisdiction.

The U.S. Department of the Interior and the Office of Surface Mining Reclamation and Enforcement didn’t immediately respond to a request for comment on the lawsuit.

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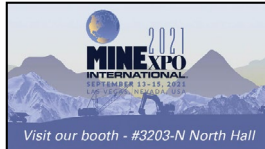
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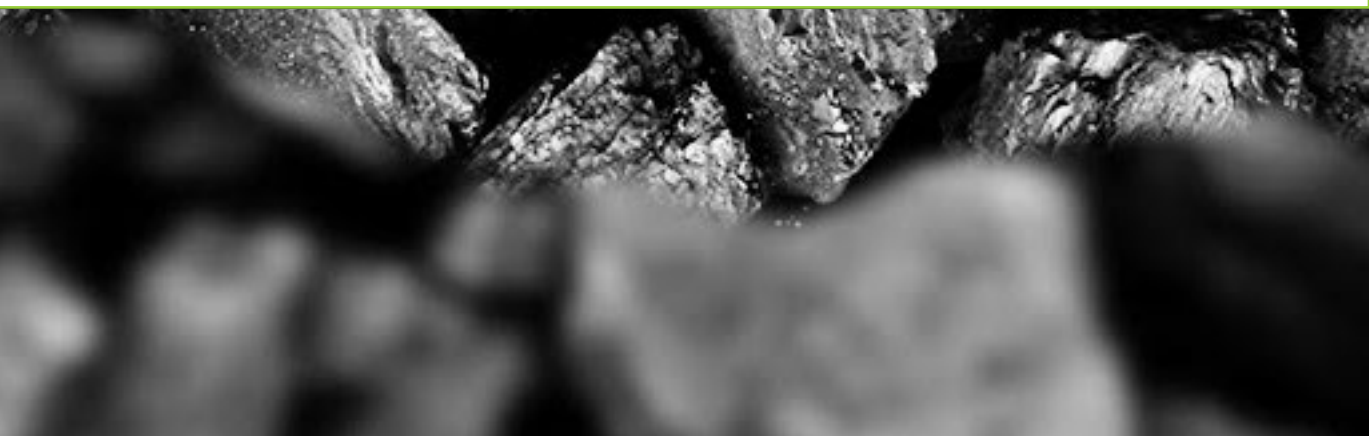


*World News:*

# **Modest Clean Coal Investment will Cut ASEAN Emissions /**

15 September, 2021 / Source: WCA

*By Christopher Demetriou*



A new report by the ASEAN Centre for Energy (ACE), and the World Coal Association (WCA), has found that ASEAN countries will require approximately 234 GW of new coal capacity by 2040 to meet growing energy demand, but with modest investment in clean coal technologies there is capacity to significantly cut emissions.

Analysis compiled in the just-released report, *Clean Coal Technology in ASEAN*, indicates that investment of USD\$8.7 billion would incentivise the coal industry to deploy ultra-supercritical technologies such as High Efficiency Low Emissions (HELE), Carbon Capture Utilisation and Storage (CCUS) and Pollution Control Technology.

This investment would reduce CO<sub>2</sub> emissions by 500 million tonnes cumulatively by 2040, equivalent to approximately 25 million tonnes of CO<sub>2</sub> per year.

ACE CEO, Dr Nuki Agya Utama, says since coal will continue to play a crucial role in providing reliable and affordable energy in the ASEAN region well into the future, this report offers comprehensive qualitative and quantitative support for the accelerated development of clean coal technologies. (CCT) in the Association of Southeast Asian Nations (ASEAN) region.

***“The report provides a comprehensive analysis of the energy security and sustainable development opportunities which clean coal technologies can facilitate in the transition towards sustainable and lower emission development.”***

WCA CEO, Michelle Manook, says the Report validates the need for industry, governments, and the international finance and investment communities to coalesce around the creation of dedicated and diverse financial support for clean coal projects.

***“Given ASEAN’s continued reliance on coal, and the wealth of independent climate science which confirms its ongoing role, the time has come to lay the groundwork for a clean coal future. Clean coal technology is proven, available and essential to delivering Paris climate change targets.”***

The Report identifies nascent clean coal development in the region which suggests that CCUS will become an integral part of decarbonisation. This includes:

- Singapore’s plan to draw on increased international collaboration to develop CCUS (outlined in its recently published *Long-Term Low-Emissions Development Strategy*).
- Japan’s proposed Asia CCUS Network which will provide opportunities for knowledge exchange, experience sharing, and capacity building.
- Indonesia’s development of the Gundih CCS pilot project, and a new proposal for CO<sub>2</sub>-enhanced oil and gas recovery.
- Malaysia’s high-level participation in capacity development, storage assessments and legal and regulatory workshops.

***For further information about clean coal technology in the ASEAN, or to download the report, please visit :***  
<https://www.worldcoal.org/clean-coal-technologies-in-the-asean/>  
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# What Makes Consol Energy (CEIX) a Good Fit for "Trend Investing" /

OCTOBER 7, 2021

By Zacks Equity Research

Most of us have heard the dictum "the trend is your friend." And this is undeniably the key to success when it comes to short-term investing or trading. But it isn't easy to ensure the sustainability of a trend and profit from it.

Often, the direction of a stock's price movement reverses quickly after taking a position in it, making investors incur a short-term capital loss. So, it's important to ensure that there are enough factors -- such as sound fundamentals, positive earnings estimate revisions, etc. -- that could keep the momentum in the stock going.

Investors looking to make a profit from stocks that are currently on the move may find our "Recent Price Strength" screen pretty useful. This predefined screen comes handy in spotting stocks that are on an uptrend backed by strength in their fundamentals, and trading in the upper portion of their 52-week high-low range, which is usually an indicator of bullishness.

There are several stocks that passed through the screen and Consol Energy (CEIX) is one of them. Here are the key reasons why this stock is a solid choice for "trend" investing. A solid price increase over a period of 12 weeks reflects investors' continued willingness to pay more for the potential upside in a stock. CEIX is quite a good fit in this regard, gaining 70.1% over this period.

However, it's not enough to look at the price change for around three months, as it doesn't reflect any trend reversal that might have happened in a shorter time frame. It's important for a potential winner to maintain the price trend. A price increase of 29.4% over the past four weeks ensures that the trend is still in place for the stock of this coal company. Moreover, CEIX is currently trading at 95.7% of its 52-week High-Low Range, hinting that it can be on the verge of a breakout.

Looking at the fundamentals, the stock currently carries a Zacks Rank #2 (Buy), which means it is in the top 20% of more than the 4,000 stocks that we rank based on trends in earnings estimate revisions and EPS surprises -- the key factors that impact a stock's near-term price movements.

Another factor that confirms the company's fundamental strength is its Average Broker Recommendation of #1 (Strong Buy). This indicates that the brokerage community is highly optimistic about the stock's near-term price performance.

So, the price trend in CEIX may not reverse anytime soon.



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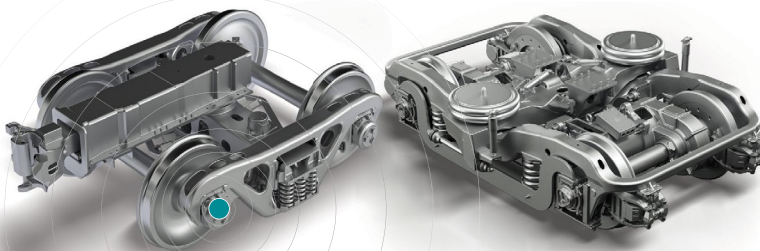
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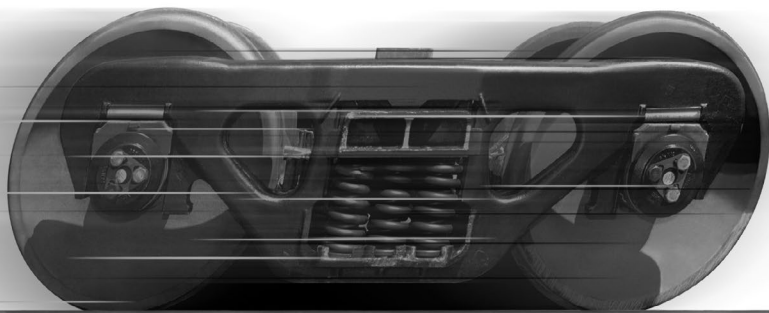
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<b>CH2M Hill</b>	<b>14</b>	<b><a href="http://www.ch2mhill.com/power">www.ch2mhill.com/power</a></b>
<b>Comet Industries</b>	<b>15</b>	<b>N/A</b>
<b>Consolidated Terminals LC</b>	<b>19</b>	<b><a href="http://www.ctlconline.com">www.ctlconline.com</a></b>
<b>Elgin Separation Solutions</b>	<b>25</b>	<b><a href="http://www.elginseparation.com">www.elginseparation.com</a></b>
<b>The Hilliard Corporation</b>	<b>38</b>	<b><a href="http://www.hilliardcorp.com">www.hilliardcorp.com</a></b>
<b>Freight Car America</b>	<b>6</b>	<b><a href="http://www.freightcaramerica.com">www.freightcaramerica.com</a></b>
<b>Fly Ash Direct</b>	<b>IBC</b>	<b><a href="http://www.flyashdirect.com">www.flyashdirect.com</a></b>
<b>Irwin Car and Equipment</b>	<b>24</b>	<b><a href="http://www.irwincar.com">www.irwincar.com</a></b>

Jabo Supply Corporation	16	<a href="http://www.jabosupply.com">www.jabosupply.com</a>
Martin Engineering	21	<a href="http://www.martin-eng.com">www.martin-eng.com</a>
McDonald Farm Enterprises, Inc	22	<a href="http://www.mcdonaldfarmsinc.com">www.mcdonaldfarmsinc.com</a>
Progress Rail	28	<a href="http://www.progressrail.com">www.progressrail.com</a>
Scantech	41	<a href="http://www.scantech.com.au">www.scantech.com.au</a>
Son Haul Inc	23	<a href="http://www.son-haul.com">www.son-haul.com</a>
Terra Source Global	13	<a href="https://terrasource.com">https://terrasource.com</a>
Utter Construction, Inc	7	<a href="http://www.utterconstruction.net">www.utterconstruction.net</a>
White Oak Resources LLC	18	<a href="http://www.whiteoakresources.com">www.whiteoakresources.com</a>



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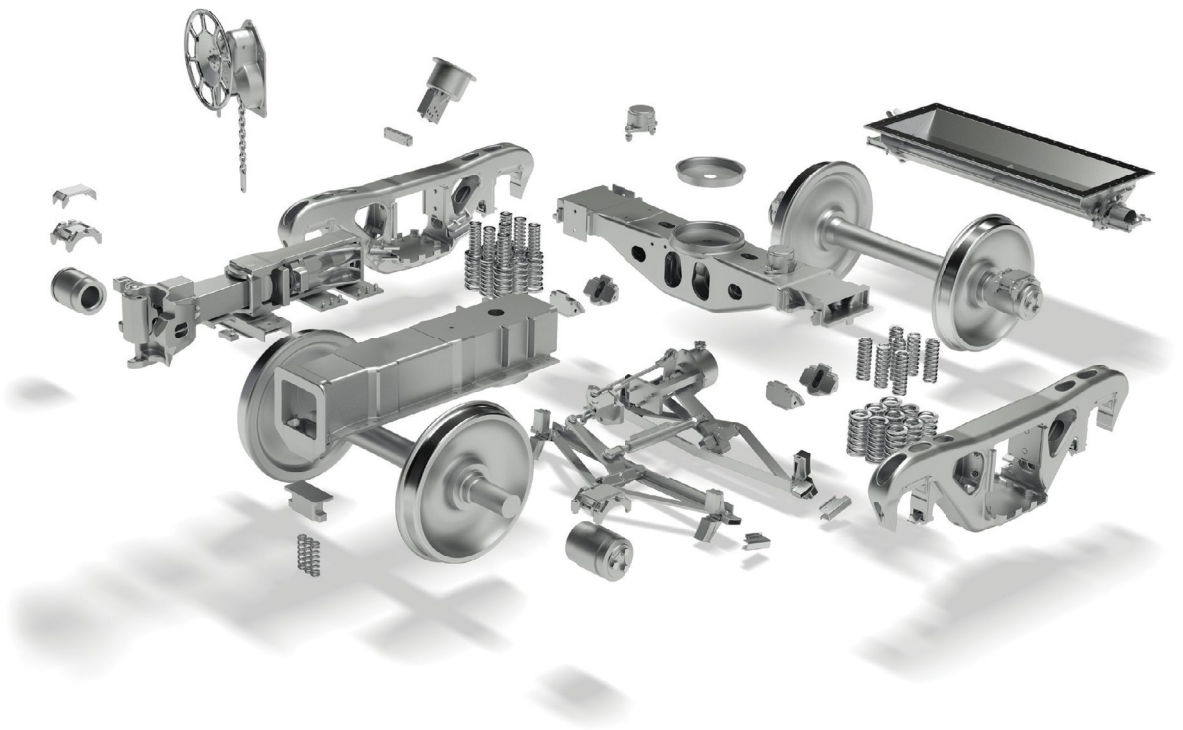


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