

coal

Issue 2 • 2019

ENERGY

From the Mine to the Utility

2018 MINER'S
MEMORIAL

FINAL ACE RULE

WORLD NEWS:

SNAPSHOTS ACROSS THE GLOBE:

JAPAN & TURKEY



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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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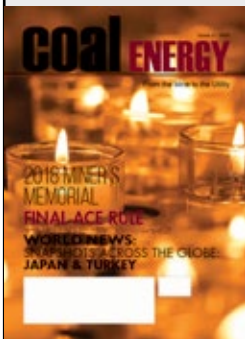


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letter from THE PUBLISHER



JULY 2019

Dear readers,

Welcome to Issue 2, 2019 of *Coal Energy*.

Coal Energy serves two distinct purposes.

The first is to be an easy quick review source for companies that are members of one or more of the coal associations and groups. The four main coal groups/associations include American Coal Council, National Coal Transportation Association, American Coal Ash Association and RMEL Utility League. If you are a member of one or more of these groups or are considering membership, *Coal Energy* can give you a comparison and membership lists so that you can best decide which association(s) fit your networking and marketing needs. Our goal is to provide a simple overview to briefly inform you saving you time and research on each individual association. We also include association events and some brief association news so that members of more than one group can have a summary of what is going on across the industry associations. 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.

The second purpose of *Coal Energy* is to provide a memorial for coal related industry deaths. Each year we publish a section or separate issue dedicated to the fallen miners in our industry.

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 eleven brave souls that lost their lives in 2018. Without these courageous miners, the coal industry would not exist. We are extremely thankful to our sponsors who have made this dedication possible.

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 EPA's ACE rule. In our world news department, we analyze Turkey and Japan as we feature WCA's global snapshots.

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.

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

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,

Maria Martonick

President

Martonick Publications, Inc.



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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

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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.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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LEONARD GRIFFITH

*April 1, 1965 ~
February 6, 2018*



Leonard W. Griffith, age 52 years, a resident of Valley Bend, passed away Tuesday, February 6, 2018. He was born April 1, 1965 at Baltimore, MD a son of the late William L. Griffith, Sr. and the late Shirley Anne Daff Griffith. On August 27, 1988 at Dailey, he was married to Phyllis Joanne Dulaney Griffith who survives at Valley Bend. Also surviving are two sons, Troy E. and Brett W. Griffith, both of Valley Bend and a special son, Andrew John Torres of Jacksonville, NC; a daughter, LeaAnne Dulane Griffith of Valley Bend. Two brothers, William L. Griffith, Jr. of Sebring, FL and Edward M. Griffith and Jennifer of Buckhannon, WV; two sisters, Brenda A. Osborn and husband Bill and Rhonda L. Tharp all of Wyandotte, MI and his Godchildren, Acadia, Zydrunas, Natanas and Aricelli Gaver and Evan and Jillian Morgan also survive. Leonard was a 1984 graduate of Pickens High School and was employed at Arch Coal Company in mine maintenance at the time of his death. He was a member of the BBS Steering Team of Arch Coal, one of the founders of Cheat Mountain Basketball League and a member of the Pickens Presbyterian Church. Leonard's gifts to the world were solid love and friendship you could count on. In basketball, he was as likely to assist as he was to score. And for his family, he made everyone feel the favorite. Anyone who was lucky enough to know him had a friend forever.

ROBERT ALLEN GROSTEFON

December 9, 1957 ~ September 12, 2018

Robert Allen "Bob" Grostefon, 60, Bicknell, passed away Wednesday, September 12, 2018 at Sidney and Lois Eskenazi Hospital in Indianapolis. Bob was born December 9, 1957, in Logansport, IN, the son of Nicholas Eugene Grostefon and Erna Mae (Crabtree) Masters. He married Angela Sue Cox on April 28, 2012. He was working at Peabody Coal Mine. He was a member of the Mariah Creek Christian Church. Bob was an avid outdoorsman. Bob is survived by his wife, Angela Grostefon of Bicknell; daughters, Nikki Nichole Grostefon of Indianapolis, Heather

Crane of Albion, IL, Tonya (Jonathan) Babbs of Bedford and McKenzie Grostefon of Plainfield; sons, Shannon (Ashley) Crane of Lockhart, TX, C.J. Thompson of Mitchell, IN and Jerry Thompson of Plainville, IN; thirteen grandchildren; brothers, Richard Grostefon of Winamac, IN, Nicholas Eugene Grostefon II of Vincennes and Kevin (Alyse) Grostefon of Vincennes; and sister, Kimberly (Gary) Lukens of Bruceville. He was preceded in death by his parents; son, Shawn Allen Grostefon; and daughter, Patricia Lynn Grostefon.



JAMES ALBERT "JIMMY" WHITLOCK

*November 02, 1979 ~ February 21,
2018*



James Albert "Jimmy" Whitlock, 38, of Smithers left this adventure called life and went home to be with his maker on February 21, 2018.

He was preceded in death by his dad, Albert Mitchell "Mitch" Whitlock. Who we are sure met him at the gates with a big grin on his face.

He was a highwall miner operator, a devoted dad, a jokester, an amazing friend, a loving son, the coolest brother, a jack of all trades and quite the philosopher. Not necessarily in that order. He enjoyed so many things about life. Among those are spending time with his kids, music, Harley's, hunting and fishing, invent-

ing things on the fly and debating any topic of your choice. He had the biggest heart and never knew a stranger.

He leaves behind his two greatest loves in life, his son James Mitchel Whitlock and a daughter Alivia Nichole Whitlock. He will be dearly missed by his mother Rebecca (Siers) Whitlock, sister Lisa Sigmon, and his girlfriend Jessica Knight along with countless family and friends.

Jimmy would hope that you will do a random act of kindness for some needful person.

RONALD "RON" RAY TAYLOR

August 12, 1974 ~ June 5, 2018



Ronald "Ron" Ray Taylor, 43, a resident of Junior, passed from this life Tuesday, June 5, 2018, in Ruby Memorial Hospital as a result of injuries sustained in a coal mining accident.

Ron was born Monday, August 12, 1974, in Elkins, a son of Ronald Marshall Taylor and Helen Lloyd. On March 28, 1997, in Virginia, he married the former Crystal Renee Howard who survives.

Also left to cherish Ron's memory are two children, Brandon Taylor and Alexandria Taylor, both of Junior, one sister, Connie McCollam and husband, Doug of Mill Creek, nieces and nephews, Doug and Sean McCollam, Matthew, Sarah, Jason, Paul, and Kyle Howard, Ashley Basil, Adam and Levi Workman, Shaun, Scotty Jr., and Timmy Powell, and Anna Daniels,

several great nieces and nephews, four sisters-in-law, Sherry Powell and husband, Scott, Marcia Tumblin and husband, Jeff, Pam Howard and companion, Stan Wegman, and Patty Howard and companion, Scott Daniels, and his coal mining family. Ron was preceded in death by two bother-in-laws, Randy and Curtis Howard.

Ron attended the schools of Randolph County and worked as a coal miner for Carter – Roag Coal Company. He enjoyed hunting, fishing, camping, shooting guns, and riding four-wheelers. He was a kind and caring man with a great sense of humor and loved by everyone who knew him. He loved his boxer dogs. Ron was an excellent provider for his family who he loved above all others.

HUBERT "BUBBY" GRUBBS JR.

*September 24, 1988 ~
March 28, 2018*



Hubert "Bubby" Grubbs, Jr, 29 of Harlan passed away on Wednesday, March 28, 2018 from injuries sustained in a coal mining accident. Bubby was born September 24, 1988 in Harlan, KY to Hubert and Martha Stewart Grubbs, Sr. He was a 10 year coal miner.

He is preceded in death by his infant son, Damon Parker Grubbs; grandparents, Mird and Delilah Stewart; Harmon and Virginia Grubbs; mother-in-law, Sandy Napier; a host of aunts and uncles; nephew, Cody Skidmore.

Besides his parents he is survived by his wife, Mandie Grubbs; father-in-law, Tom Napier; brothers, Dennis Grubbs and Angela Robbins, John Ben (Laura) Swanson, Steve "Green Bean" (Melissa) Adams, Steven (Na-

talie) Lewis, Chris "Critter" (Ashley) Daniels, Josh (Vanessa) Stewart, Todd (Jenny) Middleton, and Tony Irvin; sisters, Jennifer Grubbs and Neil Irvin, and Gail Couch; nieces, Brandy Grubbs, Alyssa Irvin, Toni Girl Irvin, Melinda Irvin, and Amber Irvin; nephews, Gavin Grubbs, Aspen Johnson, and Caleb Skidmore.

Hubert's wife, Amanda Grubbs, says she just wants people to remember the kindness her husband had for others. They had been married for five years."Just his good heart and how, just, open he was to be kind and loving to everybody that he met," Amanda said.

Grubbs was a coal miner with more than 10 years of experience. He had both his surface mine and underground mining certificates.

MICKY EDWARD COOK

June 12, 1980 ~ December 11, 2018

Micky Edward Cook, age 38, of Nauvoo, passed away on Tuesday, December 11, 2018.

Mr. Cook was preceded in death by Arthur Fletcher Kimbrell, Julia Ann Kimbrell, Elmer Cook and Lucille Cook.

He is survived by his Wife-Amy Loretta Cook; Mother-Janice Ann Cook; Father-Tommy Edward Cook; Sons-Conner Edward Cook and Cooper William Cook; Sister-Jana Nikol Sprouse (Matt); Brother-Brett Shane Cook (Lauren Pellegrino); Brother-in-law-Josh Ingle (Cari Beth); Nephews and Nieces-Nate Sprouse, Nikolas Sprouse, Jaci Cook, Breeson Cook, Tegan Cook, Brady Ingle and Blake Ingle.



NEVIN J. HOSTETTER

November 6, 1983 ~ December 20, 2018



Nevin J. Hostetter, 35, of Central City, went to be with the Lord on December 20, 2018. Born November 6, 1983 in Manheim, PA, he was a son of Calvin and Eileen (Kurtz) Hostetter of Casselman.

He is preceded in death by his maternal grandfather Harry Kurtz. Nevin is survived by his parents; wife of 14 years, Cassandra (Knepper) Hostetter; children Michaela, Andra, and Weston, all at home; siblings Craig of Rockwood, Nathan and wife Tracy of Rockwood, Jessica and husband Shane Kreiger of Newville, Doyle and wife Emily of Rockwood, Troy and wife Karisa of Northern Cambria, Kari of Somerset, Trevor of Rockwood, and Tara and husband Nathan Evans of Bruceton Mills, WV; maternal grandmother Fern Kurtz of Pine Grove; paternal grandparents Dale and Thelma Hostetter of Annville; 5 nephews; and 3 nieces.

Nevin was a 2002 graduate of Rockwood High School. He then served in Iraq with the U.S. Marine Corps, Battalion 2-5 during the 2003-2004 "Operation Iraqi Freedom". He was employed by AK Coal of Friedens after previous employment by Grannas Brothers Road Construction. He was a gunsmith, and enjoyed hunting, and working with firearms. Nevin was a loving father, wonderful husband, and man of God. He will be greatly missed by all who knew him.



KAMERON D. RANKIN

*November 29, 1990 ~
September 11, 2018*



Kameron D. Rankin, 27, of New Bethlehem, died Tuesday, September 11, 2018, in a mining accident.

Born November 29, 1990, in DuBois, he was a son of Douglas C. and Tracy D. (Stitt) Rankin.

He married Charline M. (Anthony) Rankin on September 5, 2015. She survives.

Mr. Rankin worked in the Kocjancic mines near Brockway. He was the owner of the Fitness Down Under Gym in New Bethlehem since 2012.

He loved sports, hunting, camo and tinkering with things. He loved his dogs, loved life and he loved his family. Anyone that knew him loved him; he was to the point and blunt.

He is survived by his parents, Doug and Tracy Rankin of Rimersburg; his wife, Charline, of New Bethlehem; a sister, Tristen Best and her husband, Dustin, of Butler; a brother, Garret Rankin and his wife, Mandy, of New Bethlehem; his grandmother, Florence Rankin of New Bethlehem; and 14 nieces and nephews, Emery Best, Kerrigan Best, Brogan Best, Nick Hetrick, Maggie Rankin, Zoe Rankin, Tanner Davis, Conner Davis, Margaret Davis, Adalyn Adams, Kaian Ruffner, Madelin Durci, Noah Durci and Donovan Durci.

He was preceded in death by his maternal grandparents, Jack and Linda Stitt; paternal grandfather, Marshall Rankin; and an uncle, David Stitt.



ROGER WILLIAM HERNDON

*March 1, 1985 ~
October 17, 2018*



Roger William Herndon, 33, of Bingham Ridge, Charmco, passed away on Wednesday, October 17, 2018 following a sudden accident. Born on March 1, 1985, at Ronceverte, he is the son of William "Bill" Herndon and Mary Avis Herndon.

Roger is preceded in death by his paternal grandparents, Frank and Imogene Herndon; maternal grandparents, Roger and Mary Avis.

Roger enjoyed hunting and fishing

and was an Auger helper with his dad in the coal mines.

Survivors include his parents, Bill and Mary Herndon of Bingham Road, Charmco; companion, Kelly Jo Thomas of Rainelle; daughter, Aubrey Herndon of home; 3 sons, Franklin Herndon of home, Bransen Herndon of Ronceverte, Logan Herndon of Ronceverte; brother, Christopher Avis of Rainelle; grandfather, Forrest Brown of Charmco; extended family and a host of friends and co-workers.

JASON MICHAEL WILLIAMS

*September 22, 1983 ~
March 16, 2018*



Jason Michael Williams, 34, of Bloomfield passed away Friday March 16, 2018.

Born September 22, 1983 in Linton, Indiana the son of Charles Williams and Glenda (Patton) Wells.

Jason worked at Sunrise LLC Coal Mine, he was an electrical engineer supervisor and was a member of ABATE.

Surviving relatives include his mother Glenda Wells, Natalie Williams, their children, Jadon Williams, Destiny Williams and Chelsie Gooley, his sisters, Jessica (Daniel Thomas) Drake, Karen and family and Cherra Monroe and family, one brother, Chris Williams and family, his nieces and nephews, Megan, Gwendelyn, Keirstyn, Braylen, Max, Breleigh, Miranda, Jacob, Haven and Danny, his maternal grandparents, Estel and Connie Patton and family, several aunts, uncles, cousins and his coal mine family.

Jason was preceded in death by his father, his step dad John Simpson and his best friend Chris Tresner.

CALEB J BROWN

July 5, 1993 ~ December 30, 2018


Caleb Josiah Brown was born on July 5th, 1993 in Longview. He grew up in the small town of Vader and attended Toledo High School.

On December 29th he was killed in a workplace incident in Centralia. Caleb leaves behind the love of his life, Brittney; their 3 year old son, Jason; his parents Micheal and Cheryl Brown; two brothers, Micheal (his partner Karolina) and Noah Brown; as well as many other wonderful friends and family. Caleb had a fascinating mind. He was kind, compassionate, non-judgmental, and loving.

He loved people not despite of their flaws, but because of them, and he never turned down an opportunity to give or receive a hug.

Caleb loved and was so proud of his family. He was an amazing father and absolutely head over heels in love with his partner, Brittney. He enjoyed watching movies, going on road trips, and a perfectly brewed pot of coffee; but was most often found in the company of his loved ones, enjoying the ins and outs of a long, meaningful conversation.





EPA Finalizes Affordable Clean Energy Rule, Ensuring Reliable, Diversified Energy Resources while Protecting our Environment

WASHINGTON (June 19, 2019) /

EPA Press Office (press@epa.gov)

Today, the U.S. Environmental Protection Agency (EPA) issued the final Affordable Clean Energy (ACE) rule – replacing the prior administration’s overreaching Clean Power Plan (CPP) with a rule that restores the rule of law and empowers states to continue to reduce emissions while providing affordable and reliable energy for all Americans.

Today’s actions are the culmination of a review of the CPP, which was done in response to President Trump’s Executive Order 13873 - Promoting Energy Independence and Economic Growth. The actions also follow challenges from a large number of states, trade associations, rural electric co-ops, and labor unions who argued that the CPP exceeded EPA’s authority

under the Clean Air Act, and an unprecedented stay of the CPP by the Supreme Court in 2016.

“Today, we are delivering on one of President Trump’s core priorities: ensuring the American public has access to affordable, reliable energy in a manner that continues our nation’s environmental progress,” said EPA Administrator Andrew Wheeler. “Unlike the Clean Power Plan, ACE adheres to the Clean Air Act and gives states the regulatory certainty they need to continue to reduce emissions and provide a dependable, diverse supply of electricity that all Americans can afford. When ACE is fully implemented, we expect to see U.S. power sector CO₂ emissions fall by as much as 35 percent below 2005 levels.”

The ACE rule establishes emissions guidelines for states to use when developing plans to limit carbon dioxide (CO₂) at their coal-fired power plants. Specifically, ACE identifies heat rate improvements as the best system of emission reduction (BSER) for CO₂ from coal-fired power plants, and these improvements can be made at individual facilities. States will have 3 years to submit plans, which is in line with other planning timelines under the Clean Air Act.

Also contained within the rule are new implementing regulations for ACE and future existing-source rules under Clean Air Act Section 111(d). These guidelines will inform states as they set unit-specific standards of performance. For example, states can take a particular source's remaining useful life and other factors into account when establishing a standard of performance for that source.

ACE will reduce emissions of CO₂, mercury, as well as precursors for pollutants like fine particulate matter and ground-level ozone:

- **In 2030, the ACE rule is projected to:**
 - Reduce CO₂ emissions by 11 million short tons
 - Reduce SO₂ emissions by 5,700 tons
 - Reduce NO_x emissions by 7,100 tons
 - Reduce PM_{2.5} emissions by 400 tons
 - Reduce mercury emissions by 59 pounds
- **EPA projects that ACE will result in annual net benefits of \$120 million to \$730 million, including costs, domestic climate benefits, and health co-benefits.**
- **With ACE, along with additional expected emissions reductions based on long-term industry trends, we expect to see CO₂ emissions from the electric sector fall by as much as 35% below 2005 levels in 2030.**

More information, including a pre-publication version of the Federal Register notice and fact sheets, are available at

<https://www.epa.gov/stationary-sources-air-pollution/affordable-clean-energy-rule>

FACT SHEET

The Affordable Clean Energy Rule (ACE)

ACTION

- On Wednesday, June 19, 2019, EPA issued the Affordable Clean Energy rule (ACE), an effort to provide existing coal-fired electric utility generating units, or EGUs, with achievable and realistic standards for reducing greenhouse gas (GHG) emissions.
- This action was finalized in conjunction with two related, but separate and distinct rulemakings:
 1. *The repeal of the Clean Power Plan (CPP).*
 2. *Revised implementing regulations for ACE, ongoing emission guidelines, and all future emission guidelines for existing sources issued under the authority of Clean Air Act (CAA) section 111(d).*
- ACE provides states with new emission guidelines that will inform the state's development of standards of performance to reduce carbon dioxide (CO₂) emissions from existing coal-fired EGUs — consistent with EPA's role as defined in the CAA.

PROMULGATING ACE AND ESTABLISHING EMISSION GUIDELINES

- ACE establishes heat rate improvement (HRI), or efficiency improvement, as the best system of emissions reduction (BSER) for CO₂ from coal-fired EGUs.
- Heat rate is a measure of the amount of energy required to generate a unit of electricity.
- By employing a broad range of HRI technologies and techniques, EGUs can more efficiently generate electricity with less carbon intensity.
- An improvement to heat rate results in a reduction in the emission rate of an EGU (in terms of CO₂ emissions per unit of electricity produced).
- The BSER is the best technology or other measure that has been adequately demonstrated to improve emissions performance for a specific industry or process (a "source category"). In determining the BSER, EPA considers technical feasibility, cost, non-air quality health and environmental impacts, and energy requirements.
- The BSER must be applicable to, at, and on the premises of an affected facility.

- ACE lists six HRI “candidate technologies,” as well as additional operating and maintenance practices.
- **The six candidate technologies are:**
 - *Neural Network/Intelligent Sootblowers*
 - *Boiler Feed Pumps*
 - *Air Heater and Duct Leakage Control*
 - *Variable Frequency Drives*
 - *Blade Path Upgrade (Steam Turbine)*
 - *Redesign/Replace Economizer*
- For each candidate technology, EPA has provided information regarding the degree of emission limitation achievable through application of the BSER as ranges of expected improvement and costs.
- States will establish unit-specific “standards of performance” that reflect the emission limitation achievable through application of the BSER technologies.
- These technologies, equipment upgrades, and best operating and maintenance practices were determined to comprise the BSER because they can be applied broadly and are expected to provide significant HRI without limitations due to geography, fuel type, etc.
- ACE recognizes that EPA’s statutory role is to determine the BSER and the degree of emission limitation achievable through application of the BSER, and that the states’ role is to develop plans that establish unit-specific standards of performance that reflect application of the BSER.
- The CAA provides that states establish the standards of performance and explicitly directs EPA to allow states to consider “the remaining useful life of the source” and other source-specific factors in establishing standards of performance.
- States will evaluate applicability to their existing sources of the six candidate technologies and improved operating and maintenance practices and take into consideration source-specific factors in establishing a standard of performance at the unit level.
- States will submit plans to EPA that establish standards of performance and include measures that provide for the implementation and enforcement of such standards.
- The plan submissions must explain how the state applied the BSER to each source – and how the state took other factors into consideration – in setting unit-specific standards. These plans are due in three years.

BACKGROUND

- ACE is promulgated under EPA's authority in section 111 of the CAA.
- CAA section 111(d)(1) requires EPA to prescribe regulations under which states submit state plans for existing sources. This rulemaking's legal interpretation more appropriately balances federal and state responsibilities as they are defined in the CAA.

STAKEHOLDER INPUT

- The advance notice of proposed rulemaking (ANPRM) for ACE received 270,000 public comments.
- The ACE proposal – which EPA issued in August 2018 – received 500,000 public comments and more than 200 people provided oral testimony at an October 1, 2018, public hearing in Chicago.

FOR MORE INFORMATION

Additional fact sheets along with copies of the final rule and accompanying Regulatory Impact Analysis are on EPA's website at <https://www.epa.gov/stationary-sources-air-pollution/affordable-clean-energy-rule>

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PRESS RELEASES

Arch and Peabody to combine U.S. PRB and Colorado assets in highly synergistic joint venture to unlock approximately \$820 million in synergies / ST. LOUIS, June 19, 2019 /PRNewswire/

- JV synergies projected to average approximately \$120 million per year over initial 10 years, with NPV of approximately \$820 million
- Optimal combination expected to create one of lowest-cost thermal coal suppliers in U.S. to strengthen competitiveness against natural gas and renewables and create value
- JV ownership to be 33.5% Arch and 66.5% Peabody; Peabody to serve as operator
- Centerpiece combines two adjacent and highly productive U.S. coal mines into single, lower-cost complex

Arch Coal, Inc. (NYSE: ARCH) and Peabody Energy Corporation (NYSE: BTU) today announced that they have entered into a definitive agreement to combine the companies' Powder River Basin and Colorado assets in a highly synergistic joint venture aimed at strengthening the competitiveness of coal against natural gas and renewables, while creating substantial value for customers and shareholders.

The joint venture is expected to unlock synergies with a pre-tax net present value of approximately \$820 million.¹ Average joint venture synergies are projected to be approximately \$120 million per year over the initial 10 years.² The joint venture will be 33.5 percent owned by Arch and 66.5 percent owned by Peabody.

"We are excited about this transaction's potential to enhance the value of Arch's top-tier thermal coal assets," said Arch Chief Executive Officer John W. Eaves. "This new joint venture should allow us to realize the full potential of our valuable assets in the Powder River Basin and Colorado and benefit our customers in the process. The significant operating synergies

will enhance the competitiveness of these assets and also enable us to continue to generate long-term, sustainable returns for our shareholders. We look forward to completing this transaction in a timely manner."

"The Peabody/Arch joint venture is an extraordinary example of industrial logic targeted to strengthen the competitive position of our products and create significant value for multiple stakeholders in a low-cost combination with exceptional physical synergies," said Peabody President and Chief Executive Officer Glenn Kellow. "The transaction unites two strong, culturally aligned workforces with a commitment to core values such as safety and sustainability. We believe this joint venture allows us to offer enhanced products and security of supply for customers, increased value for shareholders, greater efficiencies for railroads, long-term opportunities for employees and strength for the communities in which we operate."

Governance of the joint venture will consist of a five-member board of managers appointed by Arch and Peabody. Each party

will have voting rights in proportion to its ownership percentages, with certain items requiring supermajority approval. As the operator, Peabody will manage all activities including the marketing of coal. Arch and Peabody will share profits, capital requirements and cash distributions of the joint venture in proportion to ownership percentages.

Among other assets, the joint venture will combine two productive and adjacent U.S. coal mines – Arch's Black Thunder Mine and Peabody's North Antelope Rochelle Mine (NARM), which share a property line of more than seven miles – into a single, lower-cost complex.

Aggregated synergies are expected to enable the joint venture to significantly reduce costs well beyond what each company could achieve alone. A lower cost structure enables coal to better compete against other energy sources for electricity generation and create value. Expected substantial synergies include, among others:

- Optimization of mine planning, sequencing and accessing otherwise isolated reserves;

- Improved efficiencies in deployment of the combined equipment fleet;
- More efficient procurement and warehousing;
- Enhanced blending capabilities to more closely meet customer requirements;
- Improved utilization of the combined rail load out system and other rail efficiencies;
- Reductions in long-term capital requirements; and
- Leveraging of shared services.

Underpinning the combination, Peabody has the lowest cost position among major Powder River Basin (PRB) producers and Arch has some of the highest-quality coal in the PRB. Arch is contributing its low-cost, higher-margin West Elk Mine that enhances Peabody's Twentymile Mine in Colorado. Further PRB synergies are expected from the integration of the Caballo, Rawhide and Coal Creek mines, which have some of the best overburden-to-coal ratios in the world. Together with Black

Thunder and NARM, the PRB assets represent five of the 10 most productive mines in the United States. The inclusion of the Colorado assets will lead to additional synergies and offer the ability to better serve domestic customers while preserving seaborne coal optionality.

The combination of assets from two recognized companies is expected to advance continued responsible mining and reclamation for decades to come, benefiting all stakeholders.

"In addition to enhancing the competitiveness of our western thermal coal platform, this move represents an excellent fit with our well-defined strategy for long-term value creation and growth," Eaves said. "While we expect our thermal coal assets to contribute significantly to our overall financial performance well into the future, we plan to focus our future growth and all of our projected growth capital on our core coking coal segment. Earlier this year, we announced plans to develop a second, world-class, High-Vol

A longwall mine on the Leer reserves in northern West Virginia, and will continue to evaluate additional investments on this 200-million-ton reserve base over time. Looking ahead, we anticipate continued, favorable market dynamics in global coking coal markets, and view our premier coking coal portfolio as the centerpiece of our strategy to drive exceptional, long-term returns."

At the same time, Arch plans to drive forward with its highly successful capital return program. Since launching the program in May 2017, Arch has returned \$725.6 million to shareholders via buybacks and dividends. As part of this program, Arch has bought back 8.1 million shares, or nearly one third of its initial shares outstanding, through March 31, 2019. "With our strong and increasingly valuable coking coal portfolio and continuing contributions from our thermal coal assets, we remain sharply focused on generating high levels of free cash that we can use to fuel our robust and ongoing capital return program," Eaves said.



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Arch and Peabody will continue to operate the assets independently until closing of the transaction. Closing is subject to regulatory approval and the satisfaction of customary closing conditions. Upon closing, Arch and Peabody will each contribute its active Powder River Basin and Colorado mines, as well as related assets and liabilities, into the joint venture. Each company expects to proportionally consolidate the joint venture within their respective financial statements.

In 2018, on a combined basis, the assets shipped 206.0 million tons of coal. The assets are operated by a workforce of approximately 3,300, with combined proven and probable reserves totaling 3.4 billion tons as of December 31, 2018.

U.S.-based Arch Coal, Inc. is a top coal producer for the global steel and power generation industries. Arch operates a streamlined portfolio of large-scale, low-cost mining complexes that produce high-quality metallurgical coals in Appalachia and low-emitting thermal coals in the Powder River Basin and other strategic supply regions. For more information, visit www.archcoal.com.

Peabody is the leading global pure-play coal company and a member of the Fortune 500, serving power and steel customers in more than 25 countries on six continents. The company offers significant scale, high-quality assets, and diversity in geography and products. Peabody is guided by seven core values: safety, customer focus, leadership, people, excellence, integrity and sustainability. For further information, visit PeabodyEnergy.com.

Credit Suisse and Lazard are acting as financial advisers to Peabody for the transaction. Cravath, Swaine & Moore LLP and Akin Gump Strauss Hauer & Feld LLP are acting as legal advisers to Peabody. Goldman Sachs & Co. LLC is acting as financial adviser to Arch. Latham & Watkins LLP and Baker Botts LLP are acting as legal advisers to Arch.

Forward-Looking Statements:

This press release contains "forward-looking statements" – that is, statements related to future, not past, events. In this context, forward-looking statements often address our expected future business and financial performance, and often contain words such as "expects," "aims," "anticipates," "intends," "plans," "believes," "seeks," or "will." Forward-looking statements by their nature address matters that are, to different degrees, uncertain. For us, particular uncertainties arise from our ability to complete the joint venture transaction in a timely manner; including obtaining regulatory approvals and satisfying other closing conditions; from our ability to achieve the expected synergies from the joint venture; from our ability to successfully integrate the operations of certain mines in the joint venture; from our emergence from Chapter 11 bankruptcy protection; from changes in the demand for our coal by the domestic electric generation and steel industries; from legislation and regulations relating to the Clean Air Act and other environmental initiatives; from competition

within our industry and with producers of competing energy sources; from our ability to successfully acquire or develop coal reserves; from operational, geological, permit, labor and weather-related factors; from the Tax Cuts and Jobs Act and other tax reforms; from the effects of foreign and domestic trade policies, actions or disputes; from fluctuations in the amount of cash we generate from operations, which could impact, among other things, our ability to pay dividends or repurchase shares in accordance with our announced capital allocation plan; from our ability to successfully integrate the operations that we acquire; and from numerous other matters of national, regional and global scale, including those of a political, economic, business, competitive or regulatory nature. These uncertainties may cause our actual future results to be materially different than those expressed in our forward-looking statements. We do not undertake to update our forward-looking statements, whether as a result of new information, future events or otherwise, except as may be required by law. For a description of some of the risks and uncertainties that may affect our future results, you should see the risk factors described from time to time in the reports we file with the Securities and Exchange Commission.

¹ Synergies of approximately \$820 million represent the combined net present value of estimated pre-tax synergies projected over standalone life-of-mine plans assuming third-party price assumptions and a 10 percent discount rate.

² Average combined synergies of approximately \$120 million per year projected over initial 10 years.

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Arch's Black Thunder Mine Honored with 2018 Wyoming DEQ Reclamation Award / ST. LOUIS, July 9, 2019

Arch Coal, Inc. (NYSE:ARCH) announced today that Thunder Basin Coal Company's Black Thunder Mine has been honored by the Wyoming Department of Environmental Quality with its 2018 Wyoming DEQ Reclamation Award.

"This is a great honor for the men and women at the Black Thunder Mine, and a testament to their deep and abiding commitment to protecting and enhancing the natural environment during every step of the mining process," said Paul A. Lang, Arch's president and chief operating officer. "We applaud the exceptional efforts of the entire Black Thunder team, and commend them for the tremendous example they are setting for the global mining industry."

Black Thunder was honored for all aspects of its reclamation efforts, with a particular focus on those activities that go "far above and beyond" the regulatory requirements. Such activities include improvements to sage grouse habitat, support of raptor populations, investigations into the migration patterns of the burrowing owl, and advanced monitoring to confirm the productivity improvements on reclaimed lands, to name a few.

"The reclamation is and will continue to be a bright spot for ranchers, Wyoming wildlife and nature lovers long after mining has been complete," the DEQ said in announcing the award. "The reclaimed lands will continue to encourage the growth of Wyoming's economy through mining, ranching, and wildlife habitat."

As further evidence of its industry-leading environmental stewardship practices, the Black Thunder Mine recently surpassed 10 years of operation without a single environmental violation. Black Thunder is the nation's second largest coal mine, and recently surpassed 3 billion tons of coal shipped during its mine life.

U.S.-based Arch Coal, Inc. is a top coal producer for the global steel and power generation industries. Arch operates a streamlined portfolio of large-scale, low-cost mining complexes that produce high-quality metallurgical coals in Appalachia and low-emitting thermal coals in the Powder River Basin and other strategic supply regions. Thunder Basin Coal Company produced nearly 80 million tons of coal in 2018 and employs more than 1,200 people in Wyoming. For more information, visit www.archcoal.com.

U.S. Department of Labor Announces Upgraded Data System to Assist Mine Operators in Ensuring Compliance with Mine Safety and Health Regulations

/ June 12, 2019 / WASHINGTON, DC

The U.S. Department of Labor's Mine Safety and Health Administration (MSHA) has completed a major upgrade to its primary data system – the Mine Data Retrieval System (MDRS) – bringing increased functionality and more intuitive navigation to this widely used feature.

The MDRS offers a variety of tools to help operators monitor their compliance with MSHA regulations. The system provides access to comprehensive mine location, status, ownership, employment, production, accident/inspection/violations history, and health sampling data. Additionally, MSHA's compliance assistance calculators – Pattern of Violations (POV), Significant and Substantial Rate, and Violations per Inspection Day can be accessed. The MDRS gateway is the most visited page on the agency's website, www.msha.gov. All the standard reports previously provided are still available, but now MSHA-wide statistical reports providing real-time data are also tied to the MDRS. Furthermore, the new system provides

advanced search capabilities where users can select entire industries, multiple mines, and ownership groups. The platform also allows users to export datasets into either Excel or PDF for further analysis.

"The new Mine Data Retrieval System will simplify the process for operators and others to obtain key data points and compare the safety of their mines with industry standards," said MSHA Assistant Secretary David G. Zatezalo.

The upgrade has been in the works for more than a year and was guided in part by input from stakeholders, including mine operators and associations, who participated via three webinars. A beta version was run side-by-side with the original platform on the agency homepage as MSHA gathered feedback and refined the system.

The new MDRS is now the exclusive gateway to this real-time data, posted prominently on www.msha.gov.

MSHA will continue to seek feedback and improve the MDRS to assist all stakeholders and the general public in monitoring the safety and health of the nation's miners.

The Office of Compliance Initiatives (OCI) is part of the Department of Labor's Office of the Assistant Secretary for Policy, and fosters a compliance assistance culture within the Department designed to complement its ongoing enforcement efforts. This office focuses on helping enforcement agencies more effectively use online resources to deliver information and compliance assistance to help the American people. In August 2018, OCI launched **Worker.gov** and **Employer.gov** to provide information about workers' rights and the responsibilities of job creators toward their workers.

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Release Number: 19-998-NAT

Official Statement of Mr. Robert E. Murray, Chairman, President and Chief Executive Officer of Murray Energy Corporation, Relative to the Trump EPA's Issuance of the Affordable Clean Energy Rule / June 19, 2019

Murray Energy Corporation ("Murray Energy") applauds the Trump EPA for issuing the Affordable Clean Energy Rule, effectively repealing and replacing the disastrous and illegal Obama Clean Power Plan ("CPP"). All of Murray Energy's coal operations will benefit from this new rule, because it sets reasonable carbon dioxide emission standards that do not force the premature retirement of more coal-fired generating units.

Murray Energy was the very first party to file a lawsuit challenging the Obama Clean Power Plan ("CPP") in the case before the federal D.C. Circuit styled Murray Energy Corporation v. U.S. Environmental Protection Agency, D.C. Circuit Case No. 14-1112. After years of expensive litigation, Murray Energy was joined in the case by twenty-nine (29) states. The cases were consolidated in the case styled West Virginia v. U.S. Environmental Protection Agency, D.C. Circuit Case No. 15-1363. On February 9, 2016, the U.S. Supreme Court stayed implementation of the CPP, pending further judicial review. This was the first time in American history that the U.S. Supreme Court has intervened to stay, or temporarily block, an agency's regulation before a lower court heard legal challenges to it, which speaks to the absurdity and illegality of the Obama CPP.

America enjoys an abundant resource of proven coal reserves. Coal is a critical component of America's energy resources and continued operation of America's coal-fired electricity generation fleet is absolutely vital to ensuring reliable, efficient and cost-effective supplies of electricity to the nation.

For over a century, coal-fired generation has been the safe, reliable, low-cost, and fuel-secure source of electricity in America, providing the baseload generation, as well as the capacity, reserve, and ancillary services that are absolutely necessary to maintain the integrity and reliability of our Nation's power grids. The historical fleet of coal-fired generating units, particularly in the Midwest, has served the economy well, providing as much as eighty to ninety percent (80 – 90%) of in-state generation in many states over the years. Coal-fired generation has also served the commercial, manufacturing and industrial sectors of this Country, providing low-cost, reliable, high capacity and peak demand services that are absolutely necessary for American manufacturers to operate and to compete in the global marketplace.

Over the years, coal-fired generation has been less susceptible than other sources to both short-term and long-term fuel price variation and supply. Coal-fired

COAL STORAGE

Building silos, conveyors, and controls for handling coal is an area of expertise for Borton.



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(Converse County, Wyoming)



(Louden, Tennessee)

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generation has been the constant through the years of the Arab oil embargo, the natural gas shortages of the 1970's and 1980's, the ensuing volatility in natural gas prices thereafter, nuclear power regulatory challenges, and extreme weather conditions, most recently the 2014 Polar Vortex and 2018 Bomb Cyclones. Indeed, during the Polar Vortex, the PJM Interconnection, covering all or part of thirteen (13) states, came within 700 megawatts of a major system disruption and the cost of producing electricity in the Midwest and mid-Atlantic area rose above \$1,000 per megawatt-hour for the first time in American history.

During the 2018 Bomb Cyclones, the consequence of lack of fuel diversity was seen in New England ISO (NE ISO) pricing. Comparing the first half of January 2018 to the first half of January 2017, natural gas prices (Algonquin hub) were up from an average of \$5.60 per MMBtu in 2017 to \$22.78 per MMBtu in 2018, a 307 percent increase. Power prices (Mass Hub) were up from an average of \$41.80 per megawatt-hour to \$147.74 per megawatt-hour, a 253 percent increase.

Also relevant was the over 7000 percent increase in use of oil for power generation as a result of supply constraints on natural gas due to the lack of storage and pipeline capacity. Dual fuel gas and oil plants had to switch to oil to meet load. Pricing was also up in PJM West, which had an average energy price of \$119.53 per megawatt-hour in the first half of January 2018. The average energy price and price increases were higher in NE ISO than PJM West because the coal generation in PJM increased by about 10 percent in the first half of January 2018 which significantly reduced the increased generation required from oil.

There is no question that had it not been for the coal capacity in PJM, MISO and elsewhere the power prices would have been significantly higher. The new Affordable Clean Energy Rule helps to ensure that these coal-fired and nuclear power plants can continue to operate when we need them most, without the demagoguery of the Obama CPP, but instead, by using common sense to develop an energy policy for the United States of America.

Contura Announces Completion of Successful Refinancing Through \$561.8 Million Term Loan Credit Facility / BRISTOL, Tenn., June 17, 2019

Terms of the New Facility Increase the Company's Capital Return Flexibility

Contura Energy, Inc. (NYSE: CTRA), a leading U.S. coal supplier, today announced the completion of its refinancing process through a previously disclosed five-year, \$561.8 million senior secured term loan facility. The new facility offers Contura more flexibility to return capital to shareholders by allowing for unlimited restricted payments while the company's total leverage ratio is 3.0x or less and there is no default.

The interest rate for the new term loan facility is LIBOR plus 700 basis points (bps) for the first two years after closing, increasing to LIBOR plus 800 bps thereafter, with a LIBOR floor of 2.00%.

Proceeds from the transaction will be used to repay all outstanding amounts under the company's Amended and Restated Credit Agreement entered into on November 9, 2018 and to pay related fees, costs and expenses associated with the new term loan facility.

As previously announced, Contura's board of directors also recently adopted a capital return

program that permits the company to return to stockholders up to an aggregate amount of \$250 million of capital. The capital return program does not have a fixed expiration date, and returns of capital may take the form of share repurchases, dividends or a combination thereof. Any share repurchases may be made from time to time through open market transactions, block trades, privately negotiated transactions, tender offers, or otherwise. Any returns of capital under the program will be at the discretion of the board and are subject to market and business conditions, levels of available liquidity, the company's cash needs, restrictions under agreements or obligations, legal or regulatory requirements or restrictions, and other relevant factors.

Cantor Fitzgerald Securities is acting as administrative agent and collateral agent for the new term loan facility.

About Contura Energy

Contura Energy (NYSE: CTRA) is a Tennessee-based coal supplier with affiliate mining operations across major coal basins in Pennsylvania, Virginia

and West Virginia. With customers across the globe, high-quality reserves and significant port capacity, Contura Energy reliably supplies both metallurgical coal to produce steel and thermal coal to generate power. For more information, visit www.contura-energy.com.

Forward-Looking Statements:

This news release includes forward-looking statements. These forward-looking statements are based on Contura's expectations and beliefs concerning future events and involve risks and uncertainties that may cause actual results to differ materially from current expectations. These factors are difficult to predict accurately and may be beyond Contura's control. Forward-looking statements in this news release or elsewhere speak only as of the date made. New uncertainties and risks arise from time to time, and it is impossible for Contura to predict these events or how they may affect Contura. Except as required by law, Contura has no duty to, and does not intend to, update or revise the forward-looking statements in this news release or elsewhere after the date this release is issued. In light of these risks and uncertainties, investors should keep in mind that results, events or developments discussed in any forward-looking statement made in this news release may not occur.

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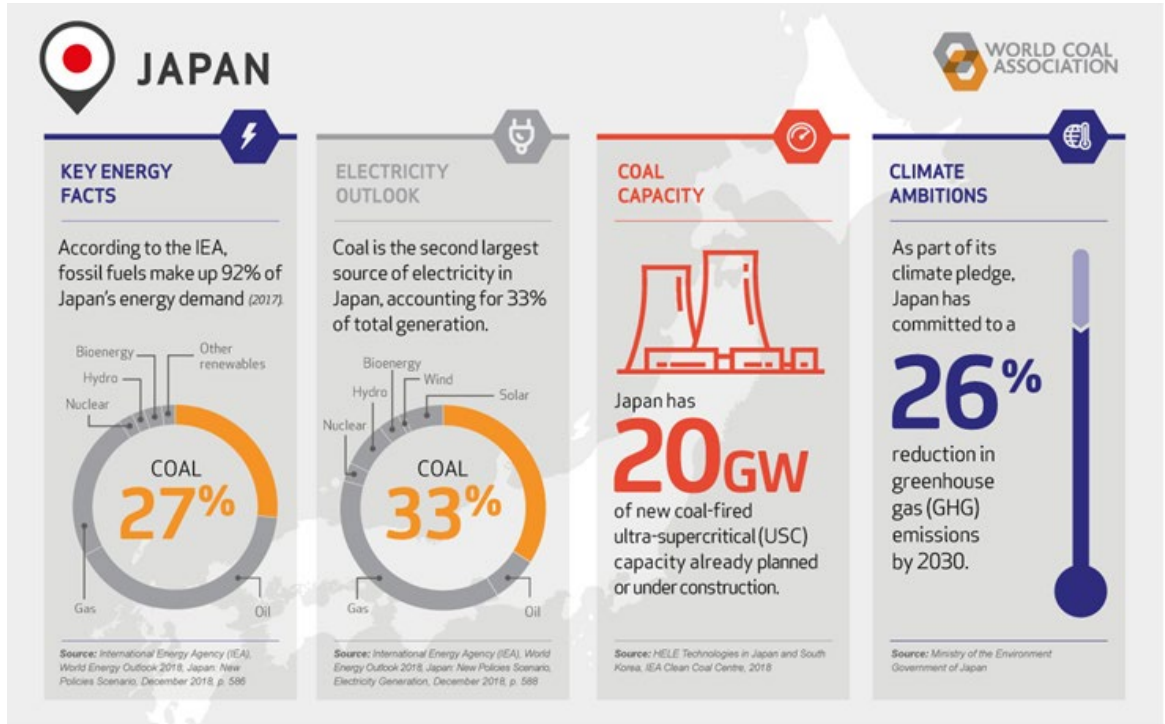


World News: **JAPAN**



Coal still plays a fundamental role in providing baseload electricity and acting as a critical building block for many economies.

In the first of our snapshot series exploring coal's role in countries across the globe, we take a look at Japan – the third-largest economy in the world and home to more than 120 million people.



KEY ENERGY FACTS

- Given the size of its economy and advanced manufacturing sectors, Japan remains the world's **fifth-largest** energy consumer.
- In 2017, fossil fuels made up 92% of the country's **energy demand**.

ELECTRICITY OUTLOOK

- In 2017, coal was the second largest **source of electricity** accounting for 33% of total generation.
- Japan's 2018 **Basic Energy Plan** recognises coal as an important, reliable and low-cost baseload power source.
- Japan has **20 GW** of new coal-fired ultra-supercritical (USC) capacity already planned or under construction.

LOW-CARBON TECHNOLOGY LEADERSHIP

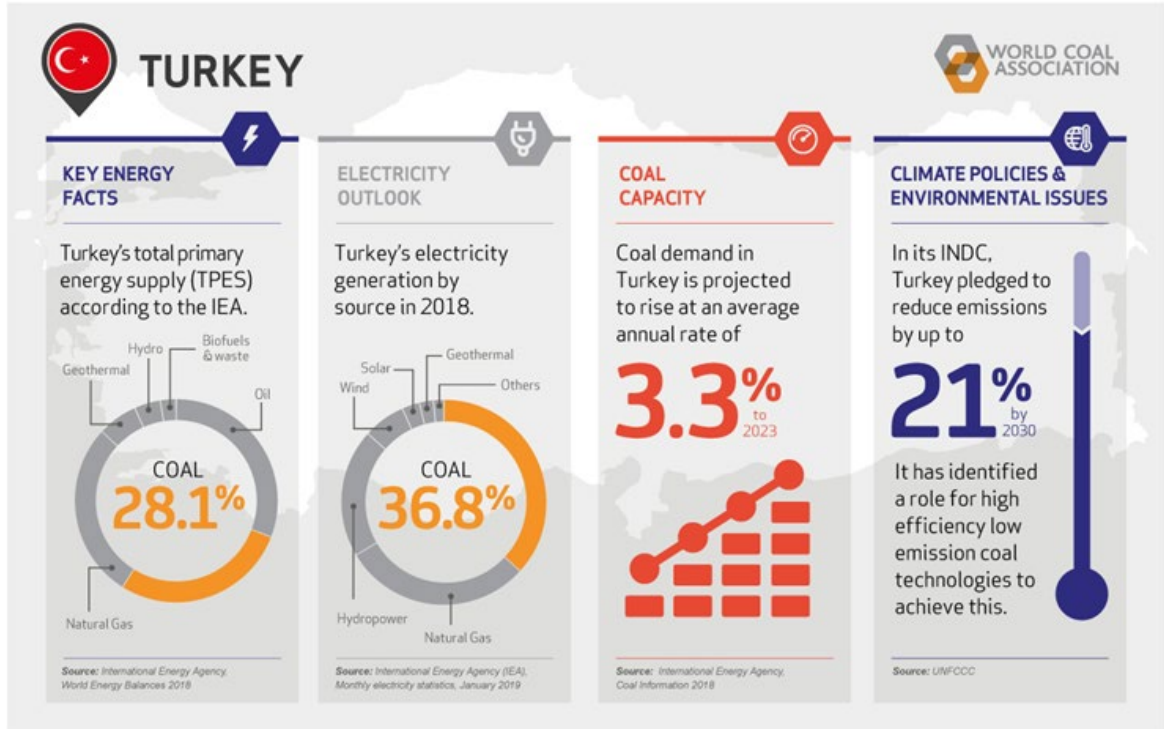
- As part of its **climate pledge**, Japan has committed to a 26%-reduction in greenhouse gas (GHG) emissions by 2030.
- Japan has some of the most advanced power plants in the world. Unit 2 at J-POWER's Isogo Thermal Power Station has a gross thermal efficiency of 45%.
- The Japanese government **intends** to support the deployment of high efficiency low emission (HELE) coal technologies overseas.
- Since 2008, the country has **engaged** in several activities to promote carbon capture use and storage (CCUS): 1) the large-scale **Tomakomai** demonstration project; 2) various R&D projects; 3) surveys for potential CO2 storage sites.
- The **Basic Energy Plan** promotes the development and deployment of low-carbon technologies including CCUS and IGCC to meet GHG national emissions targets.



World News: **TURKEY**



In the second of our snapshot series exploring coal's role in countries across the globe, we take a look at Turkey – a transcontinental country with around 82 million people and a rapidly expanding economy.



KEY ENERGY FACTS

Turkey is the 18th largest energy consumer in the world.

According to the IEA, the country's total primary energy supply (TPES) is 31% oil, 28.1% coal, 28.1% natural gas, 4.2% hydro, 6.3% geothermal, 2.3% biofuels and waste.

Fossil fuels account for over 87% of the country's energy mix.

ELECTRICITY OUTLOOK

Last year, Turkey's electricity generation by source was 36.8% coal, 29.8% natural gas and 32.9% renewables.

Coal was the largest single source for power generation.

COAL CAPACITY AND FORECASTS

Turkey is the biggest user of coal-fired power among countries in the Middle East, with the

capacity of existing plants estimated to be 18.5 GW.

Coal demand in Turkey is projected to rise at an average annual rate of 3.3% to 2023. Coal production is also projected to increase from 22 to 28 Mtce (Megatons of Coal Equivalent) through to 2023.

CLIMATE POLICIES AND ENVIRONMENTAL ISSUES

Although its energy needs are mostly met by fossil fuels, Turkey accounts for only 0.83% of global emissions.

Emissions per capita have historically been much lower than EU and OECD average levels.

In its INDC, Turkey pledged to reduce emissions by up to 21% by 2030 and has identified a role for high efficiency low emission coal technologies to achieve this.

Author/ Source : World Coal Association

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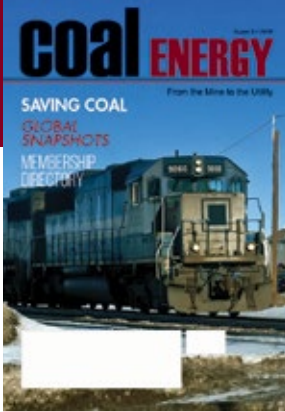


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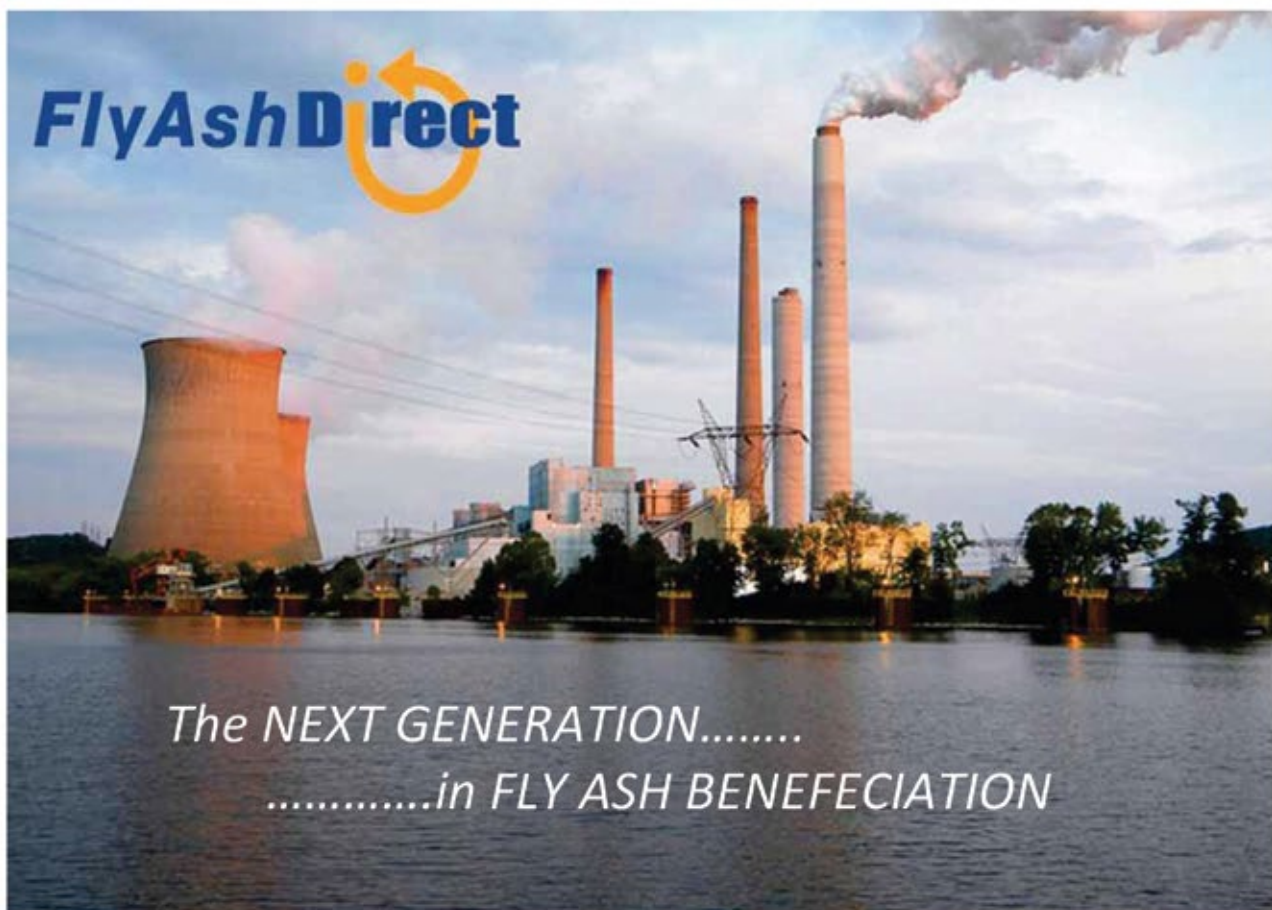
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