

Eastern Coal Council Celebrates 30th Anniversary

WV Governor Joe Manchin

Joe Manchin, Governor West Virginia and Chair Elect, Southern States Energy Board addressed conference attendees during the Eastern Coal Council's 30th annual conference.

"The recession is a golden opportunity to save the nation's economy from destruction," West Virginia Gov. Joe Manchin said.

Carbon legislation soon up for debate in Congress could

"make shambles out of this economy" by drastically increasing the price of energy, Manchin said, and all who see the need for coal should rally while economic concerns appear to trump environmental concerns in politics.

"This country is not going to be a world power without energy that is dependable and reliable, and that comes from coal," Manchin said, adding that he is "fighting the good fight" for



Joe Manchin

the economy.

He said the nation can only worsen its social ills by substantially increasing the cost of living for those who can least afford it, and sending jobs overseas to where energy is cheap and industry, therefore, better able to compete.

Coal, he said, must be used as a bridge until a "fuel of the future" is found. And politicians, he said, must realize the danger of environmental regulation

that could cost America its industrial might.

"Now is the time to bring the facts out. If you want to win this war, the economy trumps everything right now and we've got a golden opportunity," Manchin said. "As soon as this economy turns around, I guarantee you the environment will trump us and we're dead."

Manchin also defended mountaintop removal, a method

ManchinCont. Page 18

Secretary Chu Announces \$2.4 Billion in Funding for CC&S Projects

U.S. Secretary of Energy Steven Chu recently announced, at the National Coal Council's spring meeting, that \$2.4 billion from the American Recovery and Reinvestment Act will be used to expand and accelerate the commercial deployment of carbon capture and storage (CCS)

technology. The funding is part of the Obama Administration's ongoing effort to develop technologies to reduce the emission of carbon dioxide, a major greenhouse gas and contributor to global climate change, into the atmosphere while creating new jobs.

"To prevent the worst effects of climate change, we must accelerate our efforts to capture and store carbon in a safe and cost-effective way. This funding



Steven Chu

will both create jobs now and help position the United States to lead the world in CCS technologies, which will be in increasing demand in the years ahead," said Secretary Steven Chu.

The Department is posting Notices of Intent to issue this funding, supporting the following initiatives:

Clean Coal Power Initiative: \$800 million will be used to expand DOE's Clean Coal

Power Initiative, which provides government co-financing for new coal technologies that can help utilities cut sulfur, nitrogen and mercury pollutants from power plants. The new funding will allow researchers broader CCS commercial-scale experience by expanding the range of technologies, applications, fuels, and geologic formations that are tested.

Industrial Carbon Capture Funding for CCS Cont. Page 18

Capito & Roe Cautious About Carbon Bills in Congress

The Eastern Coal Council recently celebrated its 30th anniversary by hosting its annual conference in Kingsport, TN. The meeting dealt with the latest news from Washington, the coal industry and an update on carbon, capture and storage technology, as well as other clean coal technologies.

U. S. House of Representatives Shelley Moore Capito (WV) and Phil Roe (TN) discussed the American Clean



Shelley Moore Capito



Phil Roe

India, which are not worried about carbon controls as their countries are experiencing rapid economic growth, and hurt the United States' coal industry. This carbon tax will increase electricity bills drastically for individuals who can least afford it. "This is an issue that is extremely important to the productivity of our communities to the individuals to the job base to the manufacturers

Capito & Roe Cont. on Page 9

The Future of Clean Coal

Kenneth Nemeth, Executive Director, Southern States Energy Board, recently addressed the 30th annual conference attendees co-spon-

and technologies, the Southern States Energy Board enhances economic development and the quality of life in the South." SSEB's membership is 16



Kenneth Nemeth

He addressed economic prosperity for the U. S. and what's energy role got to do with it? Americans Quality of Life is driven by economic prosperity, which is fueled by affordable and dependable energy resources. The challenge is aligning the energy industry to succeed in a carbon-constrained "Hot, Flat, and Crowded", economy, by creating jobs, attracting financial investment, promoting regional revitalization and re-industrialization. Can this be done without coal? "We're in the end game here", as members of Congress debate legislation that would cap emissions of carbon dioxide. Now the time has hit," said Nemeth. He recalled when there was fear of global cooling caused by the burning of fossil fuel in the early 1970s, and then the late 1970s, when it was global warming, not cooling, that was the concern. He said the market and the need for energy, not the latest political bandwagon on climate trends, should

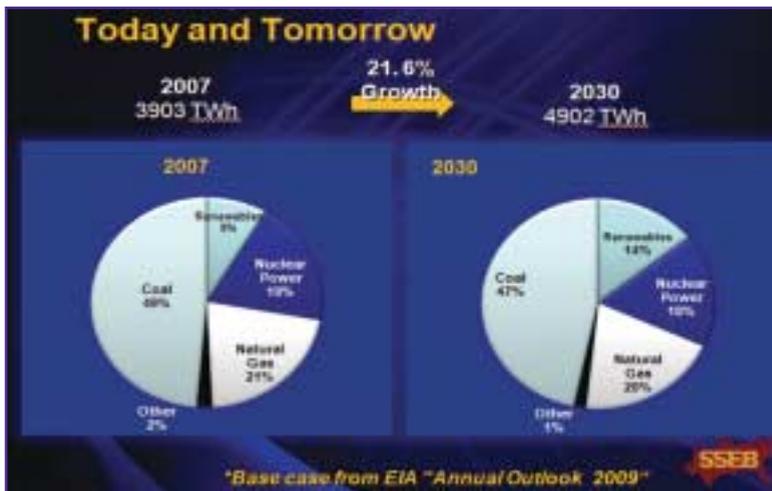
determine the nation's energy future. Are we tearing down our energy infrastructure today, or are we building it up? Congress will determine that shortly. According to some members of Congress, we want to reduce our carbon dioxide by 80 percent by 2050. That means the average American, who today produces over 20 tons per year will need to decrease his/her CO2 to about four tons per year. "When did we last emit about 4 tons of carbon dioxide a year? And the answer is when the Pilgrims landed on Plymouth Rock," Nemeth stated.

Ken talked about the number of coal fired power plants in the

United States. In 2007 there were 617 facilities burning coal to generate electricity. Of these facilities, 476 were coal fired power plants and 141 were industrial, commercial and insti-

skilled labor in power plant engineering, procurement, project management, construction activities

- Impact of Coal Ash Spill in TVA plant (Kingston)

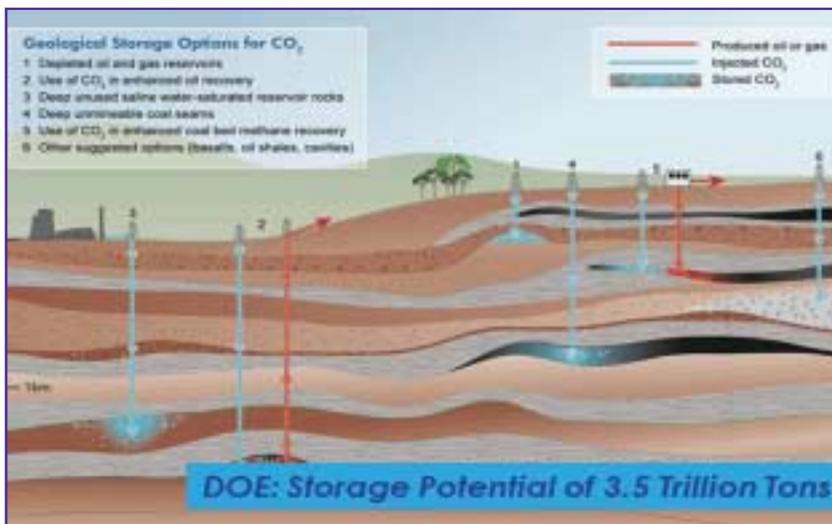


Electricity Generation

sored by the Eastern Coal Council and Southern States Energy Board. SSSB was established in 1960 and expanded its Mission in 1978:

States and Two Territories, and is chaired by a Governor from one of its member states.

Kenneth Nemeth talked about the future of clean coal and



Electricity Demand is Outpacing Generation Growth

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Coal Leader

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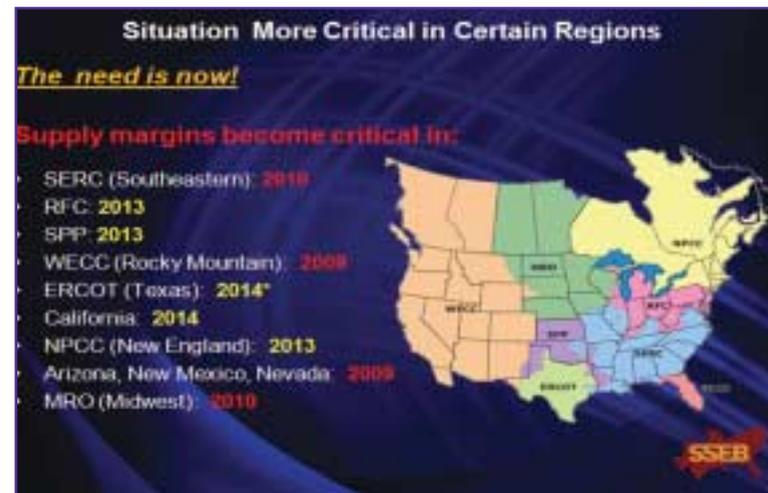
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Electricity: Critical in Certain Regions

tional facilities, where most of the electricity generated was consumed on site. Today 110 coal-fired projects are underway (52 progressing / 58 announced: 64,000 MW)

- Coal Plant construction is lagging. – Actual or Planned

- Impact of March 09 EPA Ruling on Mountaintop Removal Mining
- EPA suit against WestarEnergy (KS) for Air Pollution violations
- Michigan Governor call for 45% reduction in coal, gas &



Electricity Demand is Outpacing Generation Growth

(2002 Report)

- Plan for 2007 = 36,000 MW
- Actual 2007 = 4,500 MW
- What's causing the delays and cancellations?
- Regulatory Uncertainty, Climate Change Economics, escalating costs,
- Backlog of plants in queue
- 1990-2007 this country averaged building 1000 MW/ year in U.S. We haven't built enough new generation and companies are unsure about which technology to use in building additional generation.

Our skilled resources have been reduced- scarcity of

oil-fired power by 2020

- NV Energy – February announcement delaying coal plant "until CCS is commercially feasible"
- Recent completions- – Wygen II (Wyoming) 90 MW – Weston (Wisconsin) 500 MW

However, new plants face tremendous obstacles. The environmental groups oppose new generation being built and they oppose new power lines being built. There's delays in the permitting process, etc. It is likely this country could face brown/blackouts shortly. *cl*

Funding for CCS

Cont. from Page 1

Projects will be required to complement and build upon the existing characterization base created by DOE's Regional Carbon Sequestration Partnerships, looking at broadening the range and extent of geologic basins that have been studied to date. The goal of this effort is to accelerate the determination of potential geologic storage sites.

Geologic Sequestration Training and Research: \$20 million will be used to educate and train a future generation of geologists, scientists, and engineers with skills and competencies in geology, geophysics, geomechanics, geochemistry

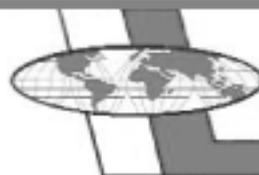


and reservoir engineering disciplines needed to staff a broad national CCS program. This program will emphasize advancing educational opportunities across a broad range of minority colleges and universities and will use DOE's University Coal Research Program as the model for implementing the program.

The funding from the Recovery Act is a direct investment in CCS-related infrastructure encompassing a diverse portfolio of research and demonstration among electric power and industrial facilities, academic institutions, and other organizations operating across the United States. DOE's Recovery Act projects will stimulate private sector infrastructure investments due to the significant amount of cost sharing that will occur in all large-scale projects to be selected for implementation.

These combined public and private investments will establish a proving ground for creating a safe, reliable, widely-available, environmentally-responsible, and affordable CCS infrastructure.

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Coal Leader Education News

Alpha Natural Resources Awards Nearly \$100,000 in First Round of High School Scholarship Initiative

Forty-eight high school graduates in five states - including eight from Wise, Russell, Scott and Dickenson counties in Southwest Virginia - will collectively receive up to \$392,000 in college tuition over the next four years, courtesy of a High School Scholarship Program initiated earlier this year by Alpha Natural Resources, Inc. (NYSE: ANR).

The Wise, Russell, Scott and Dickenson county recipients are:

- Kelsey Addington of Castlewood (Castlewood High), \$1,500 Sons & Daughters Scholarship;
- Jacob Arwood of Buffield (Rye Cove High), \$2,500 Engineering Scholarship;
- Autumn Chisenhall of Wise (J.J. Kelly High), \$1,500 Sons & Daughters Scholarship;
- Andrew Dye of Honaker (Honaker High), \$1,000 Career & Technical Scholarship;
- Manisha Kotay of Saint Paul (Powell Valley High), \$1,500 Sons & Daughters Scholarship;
- Travis Lawson of Duffield (Rye Cove High), \$1,000 Career & Technical Scholarship;
- Ruey Shyang Lin of Wise (J.J. Kelly High), \$2,500 Engineering Scholarship; and
- Meghan Mullins of Clintwood



(Clintwood High), \$1,500 Sons & Daughters Scholarship.

The scholarship winners were honored at an Alpha awards ceremony and dinner held in several states. The winners were selected by an independent educational support organization from more than 300 applicants drawn from 90 schools located in Alpha's geographic footprint, which includes Western PA, Eastern KY, Southwest VA, Northeast TN and Southern and Central WV.

Alpha's scholarship initiative for high school seniors is one of the largest in the U.S. mining industry. During the first 10 years of the scholarship program, more than 500 students

will receive college tuition assistance, which represents an estimated \$4 million commitment on the part of Alpha.

"This is just another step in Alpha's vision to support our youth and build our nation's next generation of leaders," says Michael Quillen, Alpha's chairman and CEO. "These scholarship winners are among our finest and brightest young people, and they deserve recognition and financial assistance as they begin their academic careers. Our new program was created specifically to tap into this group of students who are poised to make a difference."

Alpha's High School Scholarship Program strength-

ens the company's already-strong tradition of supporting academic performance and scholarship at the higher-education level. Since 2003, Alpha has donated more than \$1.2 million to college foundations, most of which has been used for scholar-

ship purposes.

Alpha's High School Scholarship Program opens in January of each academic year to high school seniors at schools located in Alpha's geographic footprint. Students may apply for four types of tuition funding, all of which can be renewed annually for four years of study if recipients maintain a consistent academic record.

The program consists of the following scholarship categories:

- General Scholarship of \$1,000 per year for high school seniors who live in Alpha's geographic footprint;
- Sons & Daughters Scholarship of \$1,500 per year for children of Alpha

employees;

- Engineering Scholarship of \$2,500 per year for high school seniors in Alpha's geographic footprint interested in pursuing engineering degrees; and

- Career & Technical Scholarship of \$1,000 per year for high school seniors in Alpha's geographic footprint who plan to pursue a career and technical education.

Students can apply for and receive more than one scholarship if they meet the specified eligibility and performance criteria.

Alpha's High School Scholarship Program is administered by Scholarship America, the nation's largest private sector scholarship and educational support organization. Recipients are chosen based on several factors, including their academic record, demonstrated leadership and participation in school and community activities, unusual personal or family circumstances and outside appraisals. For scholarships to be renewed annually, winning students are expected to maintain a 2.5 grade point average (on a 4.0 scale).

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CEDAR of Southern West Virginia, Inc.

Coal Education Development and Resource (CEDAR) recently completed their eighth year in southern West Virginia. Over the eight-year period, CEDAR has provided 351 teachers with approximately \$74,700 in grant money to utilize in their classroom teaching about the many benefits coal has to offer. 7,730 students have been involved in these coal study units in Mingo, Logan, Boone, McDowell, and

Wyoming counties.

At the eighth Regional Coal Fair, 261 projects were on display from students in K-12 grades that demonstrated their understanding of how coal is formed, mined, and transported, as well as how the industry affects their daily lives. Over the eight-year period, 2,091 projects have been represented at the regional level. A total of \$45,640 in cash prizes has been awarded to students for

performance and \$10,074 in cash prizes has been awarded to the school coal fair coordinators (teacher designated by school principal). Exhibits were entered in seven categories: Art, English/Literature, Math, Music, Science, Social Studies and Technology/Multi Media. Each category is split into three grade levels (K-4), (5-8), and (9-12). In addition to the cash prizes awarded, the students gained a hands-on education in

coal and found pride in their strong coal heritage.

Approximately 1,200 visitors toured the projects at the Harless Community Center in Gilbert during the Coal Fair. Bus tours were scheduled from the participating counties to tour the projects on display. Governor Joe Manchin commemorated CEDAR Fair Week by officially declaring it Coal Education Week in the Mountain State. Steve Leer,

Arch Coal Chairman and CEO, addressed the Tug Valley Mining Institute meeting during the coal fair week.

CEDAR of Southern West Virginia, Inc. is an all volunteer, not for profit corporation which began as a partnership between the coal industry, business community, and educators, created with the purpose of improving the image of the coal industry.

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Coal Leader Coal Industry News

James J. Markowsky Nominated Assistant Secretary Fossil Energy at DOE

President Barack Obama announced his intent to nominate James J. Markowsky, as Assistant Secretary for Fossil Energy, Department of Energy.

James J. Markowsky is currently a consultant in the energy and electric power generation area, a member of the National Research Council's Committee on America's Energy Future and a Member and the Chair of the National Academy of Engineering's Section 6 - Electric Power/Energy Systems Committee.

Previously, Markowsky was the President of Research and Development Solution, LLC, from 2004 - 2005 where he was involved in providing technical support services, including R&D technology planning and analysis; R&D project planning and analysis; and R&D operations and process engineering, design and analysis to DOE's National Energy Technology Laboratories. Before that he was executive vice president of power generation, at American Electric Power Service Corporation (AEP), where his responsibilities included providing overall administrative, operational, and technical direction for the AEP System's 21,000MWe coal and 800 MWe hydro power generating facilities. Markowsky's career with AEP extended from 1971 - 2000, and his other positions included; executive vice president of engineering and construction, senior vice president and chief engineer, vice president - mechanical engineering, assistant vice president - mechanical engineering, AEP Sloan Fellow, and section manager.

Markowsky received several awards including the Washington Coal Club's Lifetime Achievement Award in 2002 and has 26 publications in the area of power generation and fossil energy. He earned

degrees from: Massachusetts Institute of Technology - MS in Industrial Management -1981; Cornell University - Ph.D. in 1971 and MS in 1970, both in Mechanical Engineering; and Pratt Institute - Bachelor of Mechanical Engineering -1967.

CONSOL Executive Receives Distinguished Alumnus Award

Bart J. Hyita, CONSOL Energy Inc.'s (NYSE:CNX) chief operating officer - coal, has received the John E. Willson Distinguished Alumnus Award from the University of Utah's Mining Engineering Program.

The award was established in 2000 to recognize a graduate of the university's engineering program, who has set a high standard by his or her accomplishments in the mining industry.

Hyita is a 1981 graduate of the University of Utah and is a native of Dragerton, Utah. He began his career with CONSOL Energy. in 2001, as vice president - coal operations support. He was promoted to senior vice president - operations and planning. and then became senior vice president - administration and planning. Hyita moved into his current position in 2007. He is responsible for production, technical support and planning for all CONSOL coal operations.

Progress Energy Focused on Fundamentals

Progress Energy (NYSE: PGN) Chairman, President and CEO Bill Johnson told shareholders recently that the company is managing the business well through turbulent economic times and is excelling in the fundamentals as it builds a bright future for its customers and shareholders. The company's board of directors also declared a dividend for the

250th consecutive quarter.

"Our company has a strong foundation and a bright future," Johnson said. "We have a clear strategic focus on the electric utility industry and we have two strong utilities."

His comments came at Progress Energy's annual meeting of shareholders in Raleigh. Johnson updated shareholders on how the company is navigating through a challenging business landscape while laying the groundwork for continued long-term success.

"Our company has a strong foundation and a bright future," Johnson said. "We have a clear strategic focus on the electric utility industry and we have two strong utilities."

His comments came at Progress Energy's annual meeting of shareholders in Raleigh. Johnson updated shareholders on how the company is navigating through a challenging business landscape while laying the groundwork for continued long-term success.

"We have a relentless daily focus on excelling in the fundamentals of our business," Johnson said. "Our employees are collaborating well to control costs and find efficiency improvements. We've had very good success in delivering on our financial commitments, and we're making smart investments in our future."

Progress Energy achieved its 2008 earnings goal despite the economic recession, and in December 2008 the company increased its dividend for the 21st year in a row.

"Sustainable dividend growth is a financial hallmark of our company, and a reputation we intend to build on," Johnson said.

The company's two utilities - Progress Energy Carolinas and Progress Energy Florida - provide retail electric service to 3.1 million customers in North Carolina, South Carolina and Florida.

Johnson emphasized that the company is implementing a balanced, flexible strategy to meet the future energy needs of its customers. That strategy combines aggressive energy

efficiency, innovative alternative and renewable energy, and advanced power plants including new nuclear generation.

He pointed out that the company also is making substantial investments in new and existing plants and transmission facilities at its two utilities.

"These are challenging times for our economy," Johnson said. "Our nation and industry face some big decisions on energy. But our company has a balanced, flexible plan to prepare us and our customers for a new energy future. I am confident we are on the right track."

Keith Richardson Appointed Sales Director -Americas Joy Mining Machinery

Keith Richardson has been appointed to the position of Sales Director - Americas and will be based out of the Joy global headquarters office in Warrendale, Pennsylvania.

Keith brings to this position an extensive amount of experience and knowledge in the underground mining and heavy equipment sectors. He most recently worked for Hitachi Construction Machinery in Cleveland, Ohio as Sr. Vice President of Major Accounts. From 1996 to 1998, he was Vice President and General Manager of Joy Mining Machinery's South East Region based out of Duffield, Virginia. Prior to this, Keith worked in various sales, marketing and general manager roles for MECO International in Johannesburg, South Africa and for American Longwall in Pittsburgh, Pennsylvania.

In Keith's role on the Joy Americas Leadership Team, he will be responsible for driving growth while increasing service and aftermarket share for the Americas Region. He will also be responsible for supporting each of the Joy Operational Excellence initiatives:

Manufacturing, Engineering, Supply Chain and Service.

Keith holds both a B.Sc. in Mechanical Engineering and M.Sc. Materials Engineering from Newcastle upon Tyne Polytechnic, England.

Caterpillar Receives United States EPA's Clean Air Excellence Award

Caterpillar Inc. (NYSE: CAT) has been awarded the Environmental Protection Agency (EPA) Clean Air Excellence Award for its D7E track-type tractor with electric drive. The electric drive system is the first of its kind in this application, designed to maximize efficiency and productivity while conserving natural resources.

The diesel-electric drive technology uses a diesel engine to drive an electric generator that powers two AC electric drive motors. The D7E track-type tractor (bulldozer) increases dozing efficiency by 25 percent, reduces fuel consumption by 10 to 30 percent, and reduces criteria and greenhouse gas emissions. The total emissions reductions, from productivity increase and fuel savings, per hour are: 10 percent for CO, 20 percent for NOx and HC, 51 percent for PM and 23 percent for CO2.

"Caterpillar is committed to improving the sustainability of our customers, our industry and our shared environment," said Tana Utley, Caterpillar's Chief Technology Officer, who accepted the award at a ceremony in Washington, DC. "We are proud of the D7E and the significant improvements in fuel efficiency and productivity it will provide our customers, ultimately helping them cut costs and reduce emissions. This accomplishment proves technology can improve both customer value and sustainability. Technology unleashes the power of 'and', which makes sustainable progress possible." The award was established in 2000 at the recommendation of the Clean Air Act. *cl*



Bart Hyita



Keith Richardson

Third Largest Coal Company Created

Alpha Natural Resources announced the signing of a definitive merger agreement with Foundation Coal Holdings to combine the two companies, creating America's third-largest coal company.

The combination will create a new U.S. leader in both thermal and metallurgical coal that will be in a prime position to supply the needs of electric power plants and steel producers in North America and around the world. The combination should also lead to enhanced opportunities for employees, business partners and very importantly, the communities where we have significant economic ties. A few key facts:

- Alpha and Foundation together had combined production of approximately 93 million tons of coal in 2008, compared with Alpha's 23.5 million tons.
- Our new family will be about 6,700 people strong, working in a network of 59 mines, 14 preparation plants and several regional offices.
- The new organization will

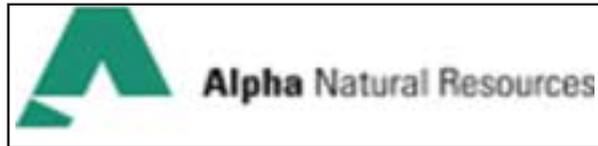
have more than 2.3 billion tons of coal reserves with a 25-year life, spread throughout Northern and Central Appalachia in the east, the Powder River Basin in the West, and the Illinois Basin in the Midwest.

• We will be one of America's most diversified coal suppliers, with a truly national footprint.

We are excited to embark on a transaction that we believe will leverage the core strengths and expertise of both companies. There is no question that we plan to continue our historically high level of philanthropic and economic development support and high level of involvement in community activities. Furthermore, we expect that a stronger, more competitive company is more likely to offer expanded job opportunities. Today's merger is about growth, and although there may be some overlap of administrative functions from the merger, currently we do not expect personnel reductions in front-line positions at either company as a result of this

transaction.

Alpha Natural Resources and Foundation Coal Announce Successful Amendment of Foundation Credit Agreement



- 94% voting in favor demonstrates strong bank support for the merger
- Amendment eliminates capital expenditure limitation and increases accordion feature of the revolver
- Consent to amend the Foundation Credit Agreement



marks an important step towards completion of the merger of Alpha Natural Resources and Foundation Coal

As part of the Amendment, Alpha and its subsidiaries will be included as guarantors of the amended Agreement. The Amendment will eliminate an

existing covenant that limits annual capital expenditures and will provide for an increase in the Agreement's accordion feature from \$100 million to \$200 million, raising the potential revolver to a total of \$700 million. The Amendment will provide participating lenders an increased interest rate of London Interbank Offered Rate (LIBOR) plus 325 basis points on the utilized portion of the facility compared to the current interest rate of LIBOR plus 125 basis points.

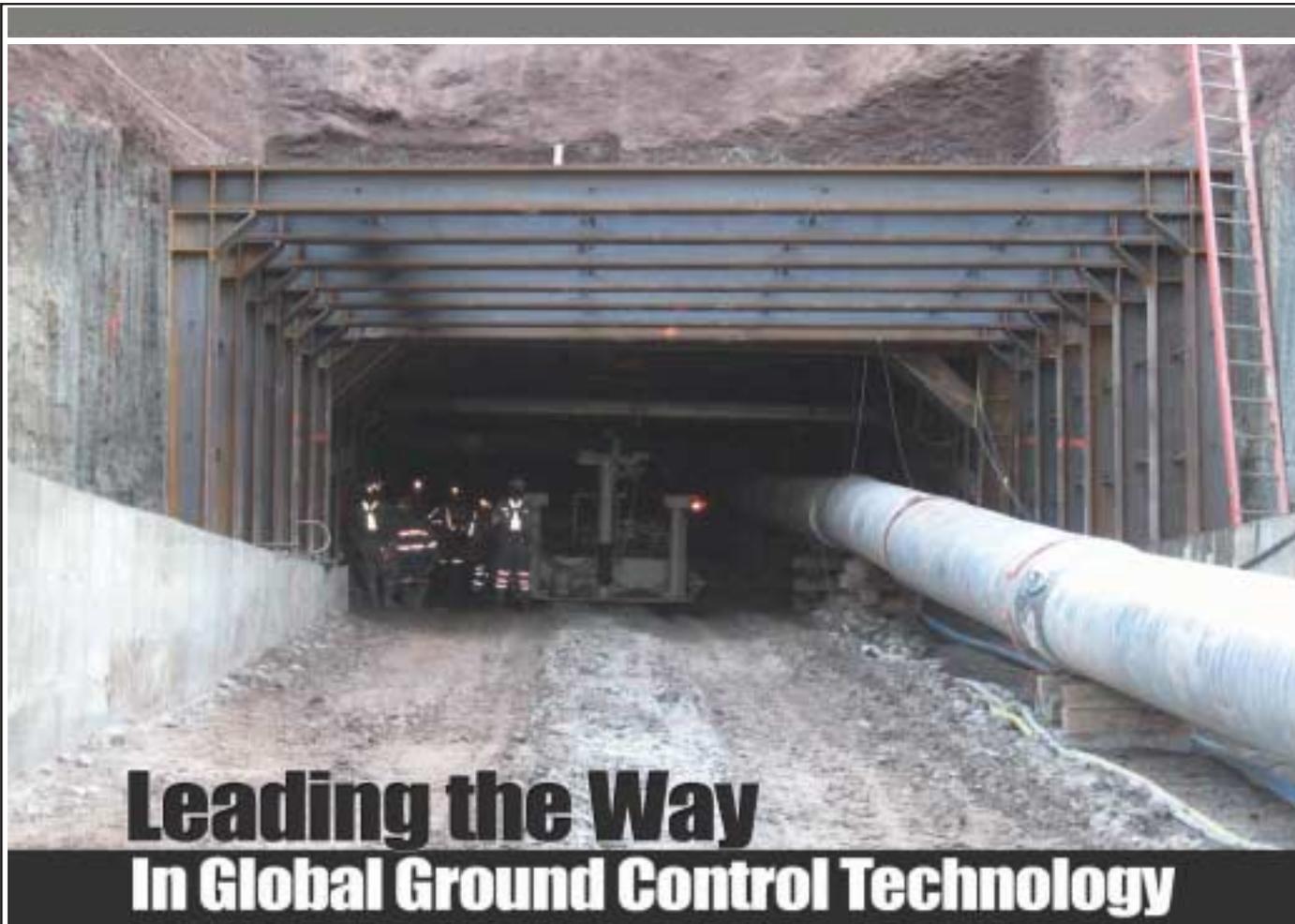
The terms of the Amendment will not become operative until the Alpha/Foundation merger closes, Alpha terminates its existing credit facilities, and the amendment fee is paid to consenting lenders. The closing of the merger is not dependent on the Amendment becoming

operational or on any other financing condition.

Alpha is a leading supplier of high-quality Appalachian coal to the steel industry, electric utilities and other industries. Approximately 88 percent of the company's reserve base is high Btu coal and 83 percent is low sulfur, qualities that are valued by electric utilities that use steam coal. Alpha is also the nation's largest supplier and exporter of metallurgical coal. Alpha and its subsidiaries currently operate mining complexes in four states, consisting of 50 mines supplying 10 coal preparation and blending plants. Alpha and its subsidiaries employ more than 3,600 people.

Foundation is a major U.S. coal producer operating mines and associated processing and loading facilities in PA, WV, and WY. Through its subsidiaries Foundation Coal employs approximately 3,000 people and produces approximately 70 million tons of coal annually.

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The Pennsylvania Crusher Mountaineer Sizer is designed for primary or secondary sizing of coals, industrial minerals and ores with minimum fines. The Mountaineer Sizer has demonstrated its ability to size product very accurately while producing extremely low fines and operating at low speed. It also uses relatively low horsepower, resulting in reduced equipment wear and energy costs as well as low noise levels.



The Mountaineer Sizer employs standard drive components rather than custom reducers and couplings resulting in considerably less expense for the user. Low headroom, as low as 40 inches, enables system designers to provide compact plant layouts.

Built extremely rugged and capable of high capacities, its crushing chamber is equipped with heavy duty liners, and all side liners are reversible to maximize parts life.

The Mountaineer Sizer is best applied for reduction ratios of 4:1, and is offered in various many lengths and center distances, enabling this product line to accept input sizes as large as 1 meter (40") and to produce output sizes as small as 95% -50 mm (2"). The Sizers are direct driven through a gearbox, and a fluid coupling is provided for tramp iron protection. The slowly turning rotor crushes materials primarily by shear, resulting in minimum fines.

Rotors are provided in either pick or segmented tooth designs to suit the specific application needs of the end user.

Pennsylvania Crusher has 7,000 crushers installed in more than 80 countries. With 30 crusher models and 2 feeder models, each available in different sizes and configurations, users can choose from more than 400 crushing and feeding solutions.

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Carbon Recycling: An Alternative to Carbon Capture and Storage

By: **Rowan Oloman**
Freelance Writer

Carbon capture and storage (CCS) is being hailed as the answer to the globe's most pressing question: what to do with the 27 billion metric tons of carbon dioxide emitted yearly from the burning of fossil fuels? Touted as the most promising interim solution to deal with the greenhouse gas responsible for global warming, CCS still remains unproven, costly and will not be commercially available for another 10-20 years. Meanwhile scientists are exploring alternatives to CCS by capitalizing on CO2 as a commodity instead of treating it as a waste.

27 billion tons of CO2 is already a hefty number but energy-related carbon dioxide emissions are projected to reach 43 billion metric tons per year by 2030, an increase of 60%. A new report by the International Energy Agency (IEA) estimates that growing energy demands from emerging giants like China and India, coupled with a lack of cost-effective alternatives to fossil fuels means that by 2050, 77% of the world's power will still be derived from fossil fuels.

"We will require immediate policy action and a technological transition on an unprecedented scale," IEA Executive Director Nobuo Tanaka said in Tokyo after releasing the report. Carbon capture and storage (CCS), the process of capturing carbon dioxide and storing it in deep geological formations, in the ocean or as mineral carbonates, is being promoted by the IEA and others as the most promising technology to deal with fossil-fuel derived emis-

sions. Not negating the role of alternative energies, the IEA is merely realistic about the enduring use of fossil fuels and the urgent need to deal with the resulting carbon dioxide.

On May 15th, 2009 U.S. Secretary of Energy Steven Chu announced at the National Coal Council that \$2.4 billion from the American Recovery and Reinvestment Act will be used to expand and accelerate the commercial deployment of carbon capture and storage (CCS) technology, including financing to train a generation of engineers and geologists to work in the field.

Chu said "To prevent the worst effects of climate change, we must accelerate our efforts to capture and store carbon in a safe and cost-effective way". Governments in Europe, Australia, Canada and China are also strongly investing in the technology.

Nevertheless, several massive hurdles still stand in the way of full-scale CCS deployment.

UK consulting firm McKinsey figures that adding CCS to the next generation of European power plants could lift their price by up to \$1.3 US billion each. Their thorough analysis (www.mckinsey.com) shows that the typical cost of a demonstration project is likely to be in the range of \$80-\$120 US per tonne of CO2 sequestered.

Legally, there are concerns over whether CO2 transport and long-term storage present human or ecosystem related risks and who is ultimately responsible if a leak occurs. While progress is underway in some countries, no country has yet developed the comprehen-



Rowan Oloman

sive, detailed legal and regulatory framework that is necessary to effectively govern the use of CCS.

In fact, no full-scale CCS project that captures and sequesters carbon dioxide from a coal-fired power plant as of yet exists. The IEA is hopeful that 10 full-scale demonstration plants will be up and running globally by 2015 meaning it may be 10 to 20 years before CCS technology is readily available.

So why expensively transport and store the CO2 underground when it could be profitably recycled post-capture?

Researchers and start-up companies are now investigating a wide range of CO2 conversion methods.

"The market is open for innovation," states Larry Kristof, CEO of Mantra Energy (www.mantraenergy.com), a company gaining international recognition in the field of carbon recycling. "It is likely that governments will soon legally mandate carbon capture from industrial plants and there needs to be a cost-effective way to implement it," says

Kristof.

Mantra's technology, named the electro-reduction of carbon dioxide (ERC), aims to take CO2 directly from industrial waste gases and convert it to formate salts and/or formic acid, both valuable chemicals used in a variety of industrial applications. Formic acid also has the potential to play a leading role in fuel cell development, both as a direct fuel and as a fuel storage material for on-demand release of hydrogen.

The ERC technology could provide a net revenue of up to US\$700 per tonne of CO2 recycled, with an ROI previously forecast at 20% per year, depending on local costs.

Compared with CCS, the ERC provides a positive return on investment, not an unrecoverable cost. Plus a demonstration ERC unit could be installed at a client's premises within a year and a commercial plant within 2 years, much faster than for CCS.

In a speech to the United States Senate Margie Tatrow, Director of Fuel and Water Systems at Sandia National Laboratories, a US Department of Energy run research center formed to develop science-based technologies that support national security, advocates that carbon recycling is the way of the future.

"We must act now to stimulate this area of research and development. Other countries are exploring reuse and recycling of CO2 and it would be unfortunate if the U.S. became dependent on imported technology in this critical area," say Tatrow.

Carbon recycling options

being developed globally vary considerably. The range includes the biochemical conversion of CO2 into algal biofuel, the thermochemical conversion into methanol and the biocatalytic or solar photocatalytic conversion of CO2 to fuels. Each has its own set of advantages and disadvantages and some are more believable than others.

At this stage, what sets Mantra and a handful of others apart is that it has a publicly disclosed patent application, backed up by several technical articles in reputable journals and has already established market interest for their products.

As fear of climate change grips the globe, businesses and governments are desperate to find an answer to our CO2 problem. Relying solely on CCS is an incredibly risky and in many places unworkably expensive solution. More imaginative thinking shows us that the 27 billion metric tons of CO2 per year may actually represent a business opportunity.

A budding industry, carbon recycling for profit offers an exciting and viable alternative to carbon capture and storage programs. Without a doubt, as a portfolio of solutions will have to be developed to address climate change, carbon recycling is destined to be at the forefront.

Rowan Oloman is a freelance writer living in Vancouver, Canada. She holds a Masters degree in Environmental Management from the University of New South Wales and a BA in Environmental Geography from the University of Sydney. Rowan works as the director of several international conservation projects and as a researcher for green tech solutions. *cl*

OhioAmerican Energy Prep Plant Receives Safety Award

OhioAmerican Energy, Inc.'s Star Ridge Coal Preparation Plant received the Pacesetter Award for Mine Safety from the West Virginia Council of the Joseph A. Holmes Safety Association. The award recognizes the Star Ridge preparation plant's record of 545 days without a lost-time accident and was presented during the West Virginia council's annual meeting recently. OhioAmerican Energy, Inc. is an independent operating subsidiary of Murray

Energy Corporation.

The Joseph A. Holmes Safety Association was named in honor of the first administrator of the U.S. Bureau of Mines, which was created in 1910 and was a precursor of the Mine Safety and Health Administration (MSHA). The Holmes Safety Association includes national, state and local councils, all working to prevent fatalities and injuries and to improve health and safety in all phases of mining –

efforts strongly supported by MSHA.

"Star Ridge Prep Plant recognized for incident rate of 0.0 during more than 41,000 man-hours"

"Recognizing safe mining operations through awards such as this is one of the most effective ways to demonstrate that solid safety practices pay off," said Michael A. Davis, deputy assistant secretary for

operations at MSHA. "Employees of the Star Ridge Preparation Plant successfully worked more than 41,000 hours in 2008 without any accidents or injuries, and MSHA is pleased to acknowledge that achievement."

The Star Ridge Preparation Plant processes approximately two million tons of coal annually from OhioAmerican Energy's Redbird West surface mine to produce steam coal for American Electric Power's

Cardinal Generating Station in Brilliant.

"The Star Ridge prep plant is a small facility so it is vital that everyone does his part to maintain the safety of operations at all times," said Star Ridge plant manager Chris Brown. "We're very proud to receive this award because it demonstrates the emphasis we put on safety not only at the Star Ridge plant, but at OhioAmerican Energy and at all Murray Energy facilities." *cl*

Capito and Roe

Cont. from Page 1

and really to the lifeblood of our singular state but also to the region," Capito said. "We have been supplying the energy and the resources for this country to be powered that we're now going to be penalized because that's where we happen to live and have developed or have used our resources to power this country and move it to the economic prosperity we have."

In 2007 approximately 32 percent of domestic energy production was from coal (solar and wind combined produced 0.5 percent); 22.4 percent of the energy consumed in the U.S. was derived from coal (0.38 percent of energy consumed was from solar and wind); and over 50 percent of energy used by electric power sector is derived from coal. The Democratic leaders' plan involves taxing emissions from coal to flip those percentages

On April 17, 2009, the Environmental Protection Agency (EPA) alleged six

greenhouse gases are a threat to public health:

- carbon dioxide (CO₂)
- methane (CH₄)
- nitrous oxide (N₂O)
- hydrofluorocarbons (HFCs)
- perfluorocarbons (PFCs)
- sulfur hexafluoride (SF₆)

Some scientists believe these gases, some of which are emitted from human activity and some of which are naturally occurring, are causing global temperatures to rise.

Representative Roe discussed the effects of the cap and trade, and who stands to win and who stands to lose. There will be an average increase of \$3,100 per household if all costs estimated in an MIT study are passed on to consumers. Three million manufacturing jobs will be lost;



CO₂ Emissions by U. S. Regions

and 800,000 jobs lost total (Heritage). \$5 trillion in GDP will be lost over 20 years (Heritage), and the United States will decrease in competitiveness with China and India (not required to lower emissions).

The winners will be the Wall Street traders, companies that can manipulate energy markets (Enron lobbied for cap-and-tax), and producers of more expensive forms of energy.

The losers will be the general public - ratepayers (Higher Electricity Costs), commuters (Higher Gasoline Costs), manufacturing businesses (energy-intensive industries that rely primarily on coal), and coal producers.

Congressman Roe said he felt

coal was being targeted because it's the largest domestic energy base; it provides the largest share of domestic energy production; it's the smallest imported percentage of domestic energy sources; and, coal generated energy is inexpensive. The drawback is coal combustion creates more carbon dioxide than other forms of energy.

Both Capito and Roe stressed the importance of explaining to the public that their electricity rates and gas prices will increase if cap-and-tax is passed; make an economic connection - at a time of a historic recession, this Bill eliminate 3 million or more jobs; and, Contact legislators - particularly in Southeast, Midwest and mid-Atlantic, where coal is most prevalent, asking them vote no on American Clean Energy and Security Act of 2009.

cl

Tug Valley Mining Institute Awards Annual \$15,000 in scholarships

Tug Valley Mining Institute (TVMI) recently named and awarded the six 2009 scholarship recipients. The two top \$6,000 scholarship awards went to Dakota Farley from Belfry High School and Issac Picklesimer from Williamson High School. Four \$750 scholarship awards went to John Vance, Man High School; Chelsea Phillips, Tug Valley High School; John Price, Burch High School; and Erica Hatfield, Williamson High School.

The guest speaker was Lt. Gen. Robert H. Foglesong, and he provided an inspirational

speech directed toward the scholars regarding the educational journey they are starting. He encouraged the scholars to invest in themselves now with education so that they could be the leaders and decision makers of tomorrow. Hi-Tech Construction sponsored the meeting and has been a long time supporter of the scholarship program.

Over the last fourteen years, TVMI has awarded 84 (eighty-four) students \$160,000 in scholarship monies. The TVMI scholarship is open to students from Mingo, Logan, Pike, and Martin counties. cl



Pictured from left to right: Ray Scites, TVMI Treasurer; John Vance, Man High School; Chelsea Phillips, Tug Valley High School; Erica Hatfield, Williamson High School; John Price, Burch High School; Issac Picklesimer, Williamson High School; Dakota Farley, Belfry High School; John Goroncy, TVMI President; and Lt. Gen. Robert H. Foglesong.

Arch Coal's Black Thunder Mine Surpasses One Year - 2.5 million Employee-hours with Zero Lost Time Safety Incidents

Thunder Basin Coal Company's Black Thunder mine near Wright, Wyoming, surpassed 365 days and 2.5 million employee-hours without a single lost-time safety incident recently.

During that time, Black Thunder's 1,200 employees have produced more than 8 percent of the annual U.S. coal supply from this world-class mine in the Powder River Basin of Wyoming.

"This record safety achievement is a real tribute to the men and women of Black Thunder," says Ken Cochran, president and general manager of Thunder Basin. "The employees have each made a personal commitment to safety and are really working together to eliminate all incidents and

injuries every day of every year."

This achievement exceeds the mine's previous safety record of 1.7 million employee-hours worked without a lost-time incident during 2001, which earned Black Thunder the Sentinels of Safety Award in recognition for operating the safest surface mine in the United States.

In 2007, Thunder Basin was the first of Arch Coal's subsidiaries to adopt a behavior-based safety process to target at-risk behaviors. The Thunder Basin SABERS (Safety Actions Bring Employees Real Satisfaction) process includes peer-to-peer observations and problem-solving leadership.

"Through our SABERS initiative, employees are empow-

ered to be the primary drivers in the safety process," says Thunder Basin's Safety Manager Tim McCreary. "This level of individual engagement is helping drive our safety performance to the next level."

St. Louis-based Arch Coal, Inc. (NYSE:ACI) is one of the largest U.S. coal producers. Through its national network of mines, Arch supplies cleaner-burning, low-sulfur coal to fuel roughly 6 percent of the nation's electricity. Arch attained an overall safety record in 2008 that was three times better than the national coal industry average, representing the company's best year on record as measured by total incident rate and lost-time incident rate. cl

2009 Bluefield Coal Show

September 16, 17, and 18, 2009

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Coal Haulers Can Now Get Liability Coverage from Progressive

Wouldn't it be great if you could get the truck insurance you need for your coal hauling business from an established and experienced countrywide industry leader? Thanks to Progressive Commercial, now you can.

"Until recently, liability coverage for coal hauling truckers and businesses were typically only available through small, regional providers," said Ken Bowman of Progressive's Commercial Auto Group. "Now, with our physical damage and liability coverage, they'll be protected with the same superior customer service and in-house claims service that have helped make Progressive the number one truck insurer in the country."

New coverages include:

- Bodily Injury/Property Damage Liability which provides coverage, up to the dollar limits you select when you buy

a policy, for vehicle-related accidents in which you cause injury or damage to someone else's person or property. Claims paid out under this coverage can include the other person's medical bills as well as repairs to the other person's property, like a coal lifter. Split limits and combined single limits are available up to \$1 million.

- General Liability which provides coverage, up to the limits you select when you buy a policy, for injuries or damage you cause as a result of business activities not directly related to operating a vehicle. Claims paid out under this coverage can include medical bills for injuries sustained by someone slipping or falling in your warehouse, or repairs to another company's mine equipment due to damage caused by your workers. Limits of up to \$1 million for each occurrence and \$2 million total are available.

These coverages are now available in AL, CO, IL, IN, KY, OH, PA, TN, UT, and WA. By the end of the year they'll also be available in MD, O., MS, ND, N.M., TX, VA., and WY.

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at service centers located in major metropolitan areas throughout the United States. Progressive companies offer consumers choices in how to shop for, buy and manage their auto insurance policies. Progressive offers its products, including personal and commercial auto, motorcycle, boat and recreational vehicle insurance, through more than 30,000 independent insurance agencies throughout the U.S. and online and by phone directly from the Company. Private passenger auto products and prices are different when purchased directly from Progressive or through independent agencies. To find an agent or to get a quote, go to <http://www.progressive.com>.

The Common Shares of The Progressive Corporation, the Mayfield Village, Ohio-based holding company, are publicly traded at NYSE:PGR. *d*

Coal Prep 2009 Marks 26th Annual Event With Largest Show Ever

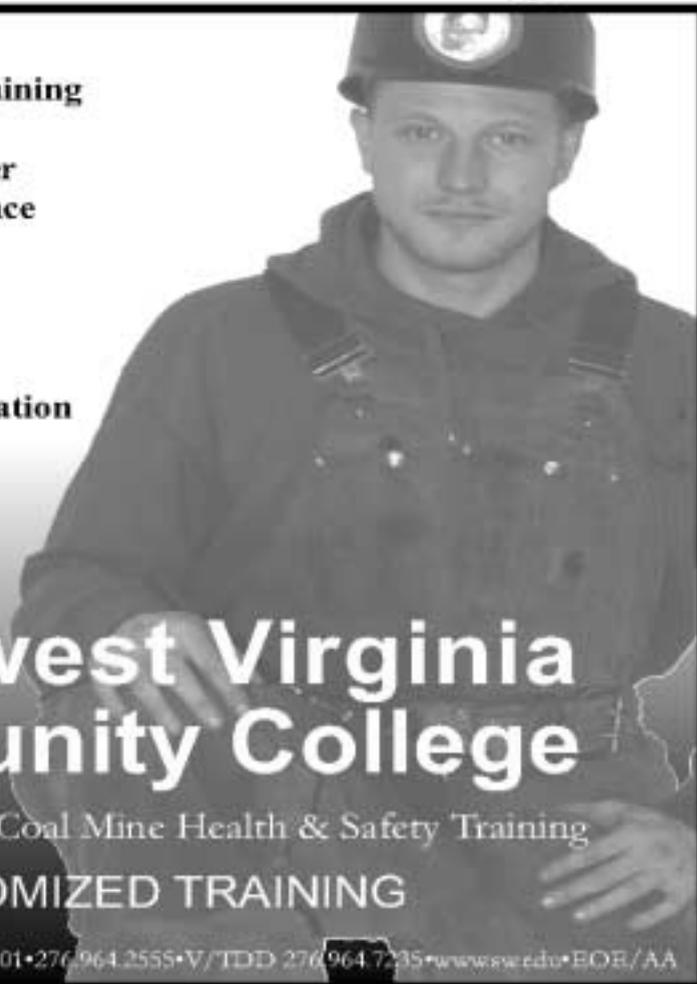
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Coal Prep 2009 brought the worldwide coal processing community together completing its 26th year with its largest number of exhibitors. The

"Opportunities, Leads, and Fresh Ideas at Coal Preparation Industry's Leading Event"

annual Coal Processing Exhibition and Conference (www.coalprepshow.com) expanded upon its tradition of providing cutting-edge education and generating high-volume traffic on the exhibit floor, as well as offering the unique networking opportunities which make it the industry's leading event.

Nearly 3,000 coal prepara-

tion professionals gathered to see the latest products and technologies from over 250 leading suppliers of coal processing equipment and services, reflecting a 14% increase in the number of exhibiting companies over last year. International participation included attendees from India, Australia, China, Russia, Ukraine, South Africa, and other countries involved in coal preparation. Early feedback from exhibitors has been that attendees at Coal Prep 2009 were not only present in greater numbers than in previous years, but were also of a higher quality than for past shows. Jeffrey Rader Corporation executive Dan Moore's assessment of Coal Prep echoes the perspective of many exhibitors who return to exhibit every year: "The quality of the leads, and continuing attendance growth are just two of the reasons Jeffrey Rader Corporation returns to exhibit year after year." *d*

DOE Establishes National Carbon Capture Center to Speed Deployment of CO2 Capture Processes

The U.S. Department of Energy has announced the creation of a new National Carbon Capture Center (NCCC) to develop and test technologies to capture carbon dioxide (CO2) from coal-based power plants. Managed and operated by Southern Company Services Inc., the center is expected to focus national efforts on reducing greenhouse gas emissions through technological innovation.

Southern Company will establish and manage the NCCC at the Power Systems Development Facility (PSDF) in Wilsonville, Ala. The NCCC will meet a critical need of the Energy Department by serving as a test center for emerging carbon capture technologies. The center will enable testing and analysis at a scale

large enough to provide meaningful data under real operating conditions. The project not only promises advancements in technology, but it is expected to create or sustain nearly 170 jobs that will last the duration of the 5-year project.

"The management of CO2 from coal-fired processes is considered by many to be the single most important component required for successful development of advanced coal-fired power systems," said Dr. Victor K. Der, Acting Assistant Secretary for Fossil Energy. "The creation of a national research center focused on carbon capture from fossil-fueled power plants bolsters U.S. efforts to reduce greenhouse gas emissions while taking advantage of America's vast coal resources."

While DOE has been vigorously pursuing carbon capture and storage technologies for many years, the focus on carbon capture is new for the PSDF. Established by DOE with cooperation from Southern Company, the PSDF has established a consistent record of testing, development and scale-up of numerous advanced coal-based power generation technologies, many of which are now entering commercial deployment.

With an existing coal gasifier and combustor already in place, the facility offers a unique opportunity for conducting large-scale research and development for CO2 capture technologies from coal-based power generation. Processes that have been studied at laboratory- or bench-

scale under ideal conditions can be quickly deployed to the NCCC for testing and evaluation under conditions that would be expected at a commercial coal-based power plant. Moreover, the center can work with technology developers the world over to harness the innovations needed to create high-performing CO2 capture technologies that can be cost-effectively deployed by power generators.

A major benefit of the NCCC will be its flexibility. The facility will offer multiple slip-stream capabilities for testing candidate processes, with the ability to investigate different ranks of coal, biomass, and other fuels. In addition, multiple projects can be tested in parallel with a wide range of testing equipment. Long-term testing will

also be available to establish the durability and reliability of new technologies.

Technology development at the NCCC will include both pre- and post-combustion CO2 capture. The pre-combustion CO2 capture component will be located at the PSDF, and the post-combustion component will be developed at Plant Gaston, an Alabama Power coal-fueled generating plant adjacent to the PSDF.

In addition to DOE and Southern Company, current participants in the NCCC project include American Electric Power, Luminant, the Electric Power Research Institute, Arch Coal, Peabody Energy, and RioTinto. The center anticipates adding more partners as its work progresses.

Davey Bickford Signs Nordex Explosives as a Daveytronic® Digital Blasting System Distributor for Ontario and Quebec

Davey Bickford Canada, Inc. is partnering with Nordex Explosives Ltd. to enhance the level of local support and technical services offered to mining and quarry operations throughout Ontario and Quebec. As a new Davey Bickford distributor, Nordex Explosives now offers its customers the Daveytronic® Digital Blasting System, offering unprecedented detonator accuracies and reliability for improved blast performance.

"Nordex Explosives has a rich history of providing superior support and partnering with mining and quarry customers to solve challenging blasting problems throughout its Ontario and Quebec territory," says Greg LeClaire, president of Davey

Bickford Canada, Inc. "Our high accuracy electronic blasting technology will allow Nordex to offer an expanded array of blasting solutions for its customers."

Located in the heart of Canada's mining industry, Nordex Explosives has offered a hands-on approach to providing solutions to tough blasting applications for 40 years.

In addition to distributing Daveytronic®, Nordex manufactures a full line of emulsions, ANFO and specialty products. Headquartered in Mississauga, ON, the distributor has a main production facility near Kirkland Lake, ON, three satellite customer service locations and six

storage facilities.

The company owns and operates a fleet of delivery and bulk explosive service vehicles.

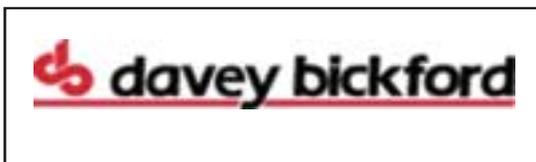
"The addition of Daveytronic® to our line gives us a full suite of

and enhanced vibration control."

The Daveytronic® III Digital Blasting System is the third generation of blasting technology from Davey Bickford, offering

ing a new generation of detonator with increased programming flexibility, accuracy and operating safety. Employing user-friendly Windows™ and com-

patible with most blasting software, the system's versatile Daveytronic® 2D software allows the technician to design a blast pattern and then configure and simulate a firing sequence, ensuring optimum blast performance prior to field implementation.



products, so we can offer our customers an ever broader set of value added solutions," says John Kozak, president & CEO of Nordex Explosives, Ltd. "By delivering a high level of accuracy, Daveytronic® detonators offer better fragmentation, more consistent blast performance

The Daveytronic® Wireless Blasting System allows blasting technicians to remotely detonate single or multiple shots away from the pattern, significantly improving safety during the blast.

Through a world-wide distribution network, Davey Bickford offers unsurpassed technical support, blasting pattern consultation and program implementation for the high-accuracy Daveytronic® Digital Blasting System. The product line includes the Daveytronic® detonator, blasting machine, field programming unit, Wireless Blasting System and blast design software, Daveytronic® 2D.

2009 Virginia Governor's Cup Mine Rescue and Safety Contest

Governor Timothy M. Kaine presented trophies to the winning mine rescue teams at the 24th Annual Governor's Cup Mine Rescue and Safety Contest held at Southwest Virginia Community College in Richlands, VA.

Sixteen mine rescue teams from Virginia participated in the 24th annual Governor's Cup Mine Rescue and Safety Contest recently. The rescue and safety competition is co-sponsored by the Virginia Mining Association; Virginia Department of Mines, Minerals and Energy; and the federal Mine Safety and Health Administration.

Governor Tim Kaine and several of his cabinet members attended the contest in conjunction with other stops in the region during Cabinet Community Day.

Teams competed in timed and judged exercises involving scenarios where they were expected to enter a simulated mine, determine conditions, construct ventilation controls, and locate and extract accident victims.



Governor's Cup/First Place Team: Jewell Smokeless Coal Corporation – Red Team

Teams were judged on their thoroughness in recording mine conditions on a map as they advance into the simulated mine, and their ability to identify and respond to hazards that pose dangers to the team and/or trapped miners.

DMME and MSHA personnel

served as judges.

The winners were:

- Governor's Cup/First Place Team: Jewell Smokeless Coal Corporation – Red Team
- Second Place Team: Jewell Smokeless Coal Corporation – Blue Team
- Third Place Team: Maxxim Shared Services Blue Team

• Best New Team : Cumberland Resources – Maroon Team
Virginia Mining Association's Mine Safety Art and Essay Contest Winners were also recognized and awards presented by Governor Kaine.

Students grades K through 7 from each school in the 7 coal-field counties were invited to

submit an art or essay under the theme "In mining, safety comes first because—". Governor Kaine presented the certificates and awards to the winners of the Art and Essay Contest. Students from Buchanan, Russell, and Wise Counties participated in the contest. Award winners are:

Buchanan County

• First Place: Timmy H. Justus Hurley Elem/Middle

Teacher: Judy L. Dotson
Second Place: Jerry R. Osborne and J. M. Bevins
Second (Tie) Bradley Keen
J. M. Bevins

Teacher: Carlene Stiltner
Russell County

First Place: Morgan Hamm
Elk Garden Elementary

Teacher: Christie Bowman

Second Place: Alyssa Brooke Ratliff, Elk Garden Elementary

Teachers: Christie Bowman

Wise County: First Place: Ashley Vanover, Coeburn

Primary Teacher: Brenda

Thompson: Second Place:

Kiarra Gibson Coeburn

Primary: Teacher: Brenda

Thompson. *cl*

Headwaters Resources Forms New Division to Serve Expanding Coal Ash Disposal Market

Headwaters Resources, South Jordan, UT, America's largest marketer of coal combustion products, recently announced the formation of a division focused on coal ash management and disposal services.

"Many people who know us as a prominent marketer of coal ash for beneficial uses are not aware that our company also has a long history providing ash management and disposal services," said Bill Gehrman, president of Headwaters Resources. "As the complexity of managing coal ash increases, Headwaters Resources offers the vision, experience,

and capabilities to create comprehensive disposal and marketing programs for utilities and industrial facilities of all sizes. This new division expects to provide valuable tools for complying with changing disposal regulations, while developing options for increasing the safe beneficial use of coal ash."

The U.S. Environmental Protection Agency has announced plans to strengthen regulation of the disposal of coal ash and several states have undertaken similar efforts. Increased regulation of ash disposal may require coal users to assess their ash management strategies and change certain



Bill Gehrman

operations.

"Headwaters Resources offers a full suite of capabilities

for assessing ash management programs and implementing high quality disposal and marketing operations," said Gehrman. "From permitting to construction and operations, this division intends to tailor services to the needs of individual utilities."

For example, Gehrman said, Headwaters Resources plans to draw on extensive experience conducting landfill operations and pond cleanouts, converting disposal operations from wet to dry handling, designing and managing systems for handling flue gas desulphurization materials, deploying systems for improv-

ing coal ash quality, and more. With ongoing projects at 103 utility locations and approximately 20 million tons of coal combustion products under management annually, Headwaters Resources is the largest manager of coal ash resources in the United States. Headwaters Resources is also responsible for more than half of the nation's total sales of coal fly ash for use in concrete applications – an important contributor to reducing greenhouse gas emissions associated with concrete construction.

For more information about Headwaters Resources, visit www.flyash.com. *cl*



Wednesday, September 16 -18, 2009
Brushfork Armory-Civic Center
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BUCYRUS Developing the Power Chain

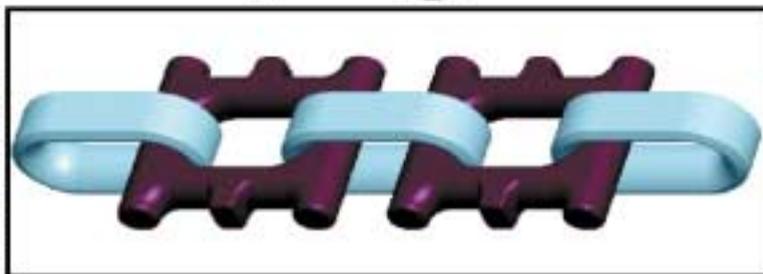
Over the last 15 years, the drive power installed in mining equipment has doubled, with production now reaching 5,100 tons/hour and more. Despite this huge increase in cutting rates, face conveyor service life has been tripled through the use of CST drives and advances in line pan, machine frame, chain and sprocket design.

As longwall cut & load speeds increase, face conveyors have to keep pace. This means longer, more powerful conveyors with greater drive power, resulting in thicker chains and larger chain sprockets. Wear can be a major problem, as uncontrolled wear leads to high cost maintenance and effort, and unplanned longwall downtime as the result of chain failure.

Early chains were based on the conventional chain produc-

tion method of cutting to length, bending and welding of round steel bar. But Bucyrus was early to develop flat chains such as the 42x146 and the 48x144/160 – but these, too, still suffered from the standard wear patterns. This was the result of surface pressures of 2000 N/mm² between the chain and the chain sprocket. Despite the use of high-strength steel and hardened chain pockets, some working panels could not be completed without replacement of both chain and chain sprocket.

One approach to solving this problem is to increase the contact surface, thus reducing surface pressure and wear. This led to the development of the Power Chain. Modern chain



production methods are used for the Power Chain 42x140. These involve hot-forming of chain links, combining the use of round-steel and forged elements, or rolled profiles and forged elements.

The vertical link (shown grey) has a 42 mm diameter and is rolled to form a semicircular cross-section, thus offering greater link surface area.

The horizontal links (shown burgundy) are forged, with a 42 mm link surface area. The leading edge – normally round in a conventional chain – is flat,

offering a larger contact surface area for drive sprocket. The central area for securing the flight bar has a key that engages a slot on the flight bar.

This design almost halves surface pressure at contact points. The Power Chain is currently available in three sizes namely 34x110 mm, 42x140 mm and size 52x175 mm. The latter is designed to be used with up to 3x 1,200 kW (3x 1,608 hp). Another Power Chain is under development which will be suitable for up to 3x 1,800 kW (3x 2,412 hp). It completed testing in November 2007. Power Chains are currently being prepared for sever-

al installations in Australia and the United States.

The arc-shaped broad cross-section of the flight bars allows a low-profile line pan, while the special shape of the chain provides a large running surface. This drastically reduces surface pressure and wear at chain joints – resulting in significantly longer service life of chain and drive sprocket than conventional systems. Reduced contact pressure also means minimum friction and lowest power requirements.

The Power Chain features a patented method for attaching the flight bar and higher chain breaking force to allow greater loading of conveyor, increasing conveying capacity. The Power Chain can be retrofitted to existing face conveyors to increase their capacity and service life.

d

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New low-profile MARTIN® Door

To improve conveyor maintenance, Martin Engineering has introduced an updated, low-profile version of its industry-standard inspection and access door.

Installed to allow inspection and maintenance access inside belt conveyor transfer chutes and other enclosures, the improved MARTIN® Door features a low profile that minimizes dust accumulation on the door and frame while providing a dust-tight seal.

The slim new MARTIN® Door allows safe, secure inspection of critical areas without the need for specialized tools. The new door offers the option of an integral yet removable steel screen to protect personnel from being struck by material cast out of the enclosure when the door is open.

The top of the handle of the new door stands less than 2 inches (50 mm) above the wall, providing minimal area where material can accumulate.

The new MARTIN® Door is available in five standard sizes. Available in painted mild steel or 304 stainless steel, the door is installed by bolting or welding its frame to the wall of the structure. A lockable latch is available. More information visit martin-eng.com. d

A Call for Transparency in Lobbying

The Fund has proposed shareholder "Proposal 9," which, if adopted by the shareholders, would require Caterpillar management to, "at reasonable cost and excluding confidential information, report... on the Company's process for identifying and prioritizing legislative and regulatory public policy advocacy activities."

Caterpillar management opposes the proposal, saying it objects to the release of confidential company information to competitors, although the proposal specifically excludes a requirement that confidential information be released.

In its objection, Caterpillar also claims it lobbies for cap-and-trade "in part, to ensure that any climate change legislation passed by Congress does not

unfairly impact [Caterpillar] or its customers."

"This is disingenuous," said National Center for Public Policy Research President Amy Ridenour. "Caterpillar is doing far more than jockeying to make sure Caterpillar doesn't get hurt more than other American companies if climate change legislation passes. Caterpillar is actively working to make certain it passes. Without the legislation for which Caterpillar is lobbying, we wouldn't be talking about anyone -- including Caterpillar -- being hurt."

"There's no question that Caterpillar CEO James Owens understands his company is lobbying to increase prices on American families," added Ridenour. "In May, Owens, speaking in front of President

"Caterpillar CEO Commits to Pro-Cap-and-Trade Lobbying Course While Admitting Risk to USA and His Own Corporation; Says Stockholders Who Object Can Just Sell Their Stock."

"Should We Sell Our Stock in America, Too, Mr. Owens?"

Obama in the dual capacity as Caterpillar CEO and as a mem-

ber of Obama's President's Economic Recovery Advisory Board, expressed concern that energy price increases of \$100-\$1,000 per person per year -- not just the rich, every American -- expected to result from Congressional cap-and-trade proposals would be insufficiently high. Specifically, Owens said, "...if there's going to be a meaningful change in consumer behavior, [\$100 to \$1,000] seems like a pretty small range of numbers..." So no one from Caterpillar can pretend the company isn't lobbying Congress to intentionally raise energy prices -- during a recession, no less."

The Heritage Foundation has concluded that the adoption of the Waxman-Markey cap-and-trade proposal would, by 2035, raise direct energy costs for the

typical American family of four by \$1,500, kill 844,000 in an average year, and raise the national debt by 29 percent.

The full texts of Proposal 9 and Caterpillar management's response to it can be found online at <http://tw6.us/Mw> (PDF), on pages 28-29. This information is provided for informational purposes; the Free Enterprise Action Fund has no connection to the National Center for Public Policy Research.

The National Center for Public Policy Research is a free-market communications and research foundation established in 1982 and located on Capitol Hill. It receives support from over 80,000 individual contributors. Under 2 percent of its revenue is received from corporations. *d*

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Coal Leader Education News

Eleven High School Graduates Chosen as Arch Coal Scholars College Scholarship Program Celebrates 20 years

The Arch Coal Foundation recently announced that 11 recent high school graduates have been chosen as 2009 Arch Coal Scholars. The Arch Coal Scholars program honors outstanding scholastic achievement by the children of employees of Arch Coal, Inc. and its subsidiaries.

To celebrate the 20th year of the Scholars program, the Arch Coal Foundation increased the annual scholarship to \$2,000 - an increase of 25 percent - for each scholar to apply to an accredited college or university for up to four years.

"Arch Coal is pleased to have the opportunity to honor such an outstanding group of graduates," said Steven F. Leer, Arch Coal's chairman and chief executive officer. "These young scholars have distinguished themselves both inside and outside the classroom. They were chosen from a very impressive group of applicants, and they are to be commended for their

Fenner Dunlop Americas Receives MSHA 30CFR14 Approval FireBoss Underground Conveyor Belting

2009 Fenner Dunlop Americas announced recently that it has received MSHA 30CFR14 B.E.L.T. approval for its underground FireBoss conveyor belts. The underground product line was specifically

NAME:	PARENTS	HOME
Andrew Astin	Steve and Tami Astin	Delta, CO.
Cassity Clayton	Jay Clayton and John and Caroline Black	Gunnison, UT
Nicole Diedrich	John and Sheryl Diedrich	Spearfish, SD
Christopher Evans	James and Judy Evans	Verdunville, WV
LaTonya Everly	Terry and Wanda Everly	Mayking, KY
Jeremy Garlick	Robert and Janeen Garlick	Fairview, UT
Zachary Holcomb	Thurman and Deborah Holcomb	Big Stone Gap, VA
Denna Lawrence	Dennis and Diana Lawrence	Wright, WY
Emily Moore	Bob and Janet Moore	Gillette, WY
Lateisha Shepherd	David and Linda Shepherd	Levan, Utah
Laura Szczepan	Greg and Kim Szczepan	Fenton, MO

Arch Coal Scholars

accomplishments."

Arch Coal Scholars are selected on the basis of academic record, potential to succeed, leadership and participation in school and community activities, honors, a statement of educational and career goals, work experience and an outside appraisal.

This year's top Arch Coal Scholar, Andrew Astin, received the Kendra Bradley Washburn Memorial Scholarship. Astin was student body president, vice president of the National Honor Society, president of the

Key Club and Western Slope League 3A All-Conference football player at Delta High School, Delta, Colo. He will attend the University of Colorado this fall, where he plans to major in integrative physiology.

Students in Arch's extended family as they pursue their future goals."

Scholarship America, the

attend the University of Colorado this fall, where he plans to major in integrative physiology.

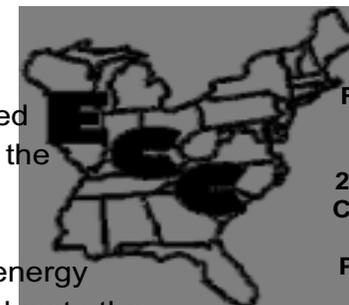
"We consider the scholarship program a wise investment in America's future," added Leer. "We are pleased and proud to assist some of the best and brightest

scholarship and educational support organization, administers all aspects of the scholarship competition for Arch Coal, including the independent selection process.

Arch Coal is a long-time supporter of educational excellence. Since its inception in 1989, the Arch Coal Scholars program has provided four-year scholarships to more than 200 new high school graduates. *cl*

Eastern Coal Council

For over 30 years, the Eastern Coal Council has served as a "chamber of commerce" for the energy industries. It informs the general public about coal and its importance to America's future energy plans, policies, and programs, educate the general public, elected officials (federal, states, and regional) about the importance of coal; to provide educational programs for teachers by co-sponsoring the *Project Coal To Electricity: Teaching Environmental Issues* program.



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We work heavily with natural gas and carbon capture and storage, too. The Eastern Coal Council is a membership organization of industries, businesses, educators, and elected officials who have joined together for the purpose of promoting coal, rail, and power through education and public awareness.

"Promoting Coal through Education & Public Awareness"



FENNER DUNLOP
CONVEYOR BELTING

developed to exceed the new B.E.L.T. standards, making worksites safer for underground conveying.

The new Fire Boss compounds were developed as key ingredients in Fenner Dunlop's fire retardant belting to significantly reduce fire propagation and smoke density. The self-extinguishing properties of Fire Boss aid in sustaining oxygen

Mining Support Team and newest division, Fenner Dunlop Conveyor Services, will provide recommendations and services to assist in belt selection, installation, maintenance and belt monitoring. Tracking and tagging techniques for compliance are now available to aid end-users in tracking conveyor belts that meet the new B.E.L.T. standard. *cl*

Joy's New Shearer Breaks 10 Million Ton Mark in China

Starting in April 2008 until the end of March 2009, Shenhua Energy's 7LS7 model JOY shearer had mined 10,269,915 tonnes (11.3 million tons). Ed Niederriter, Joy's Product Director Shearers, said, "We worked together with the customer to achieve these high production levels in the shearer's first year of operation and are proud of the results. We appreciated all the cooperation at the mine and look forward to producing even more in the future."

Shenhua / Shendong senior management commented, "We are very proud of the management and personnel at the Shang Wan Mine for their outstanding achievement. We would also like to extend our



appreciation to Joy for their cooperation and support to the mine and our company to make this achievement possible. We also look forward to our continued joint efforts and future success of both our companies."

This model of shearer, the

7LS7, is the first one of its kind to be designed and manufactured by Joy Mining Machinery. It is the largest and most powerful longwall shearer that went into production at one of the world's largest coal mining complex, Shenhua Energy Co., Ltd.'s Shendong Coal Branch operation.

The 7LS7 is Joy's response to a market requirement for a shearer that is capable of on-pass mining at seam heights and production rates never before attained in the industry. The 7LS7 was developed as a part of Joy's philosophy to offer a reliable, productive, engineered solution to meet the customer's need. Joy's Product Management Team focused on applications that

exceed 6 metres (20 feet) in height. In its first use at the Shang Wan Mine, the JOY Shearer has achieved all expectations.

Integral to the 7LS7's size and power is the JOY FACE-BOSS control system, the company's fully-integrated, logistical control link that monitors and controls every aspect of the longwall mining cycle, from shearer guidance to advancing of the shields, from cut sequence to power distribution and control.

Joy is committed to providing equipment and service solutions that align with our customer's expectations of Zero Harm, Most Productive Equipment and Lowest Cost Per Ton. *ed*

Manchin Cont. from Page 1

of strip mining that involves blasting away mountain peaks; he said the flat land it creates allows for development that his state and the region wouldn't have otherwise.

"If I say in West Virginia that we are basically using every bit of disturbed land to enhance the quality of life ... how in the world can a person look at me and say that's not responsible, you can't do that, you shouldn't because you're altering it,"

Manchin said.

"I have a piece of land that produces very little taxes if any, it takes 50 years before you can harvest the timber, and I've got no tax base for the school system... How can anybody tell me that's what's best for the people of West Virginia?"

Manchin praised coal companies for helping to clear the roads after "horrendous" flooding in the state over the past few days that he said was

caused not by extensive strip mining but by "an act of God." Manchin stated that President Barack Obama acknowledged that coal will be a major energy supplier for the next 30 years.

Manchin said he had asked the White House policymakers, "Do you believe coal will be used in the next 30 years," and no one said, "We can do without it."

"This country has from 150-200 years of coal reserves left,

said Governor Machin, but he doubted that coal would remain the dominant fuel for electricity.

The Governor urged the coal industry to remember "the economy trumps everything" and there's a very small window of opportunity for the industry to state its case in the creation of the carbon energy legislation. If pro coal officials do not speak up, when the economy improves, the anti coal environmentalists will get the upper

hand in public opinion.

Manchin said, "As for coal's role in energy and elsewhere in the nation's economy, can we make it better? I think so. Can we burn it cleaner? Yes. Can we do without it? Certainly not."

Coal Leader wishes to recognize Steve Hooks and Debra McCown for many of the ECC conference quotes and facts. ed

Funding CCS Cont. from Page 1

and Storage: \$1.52 billion will be used for a two-part competitive solicitation for large-scale CCS from industrial sources. The industrial sources include, but are not limited to, cement plants, chemical plants, refineries, steel and aluminum plants, manufacturing facilities, and petroleum coke-fired and other power plants. The second part of the solicitation will include innovative concepts for beneficial CO2 reuse (CO2 mineralization, algae production, etc.) and CO2 capture from the atmosphere. In addition, two existing industrial and innova-

tive reuse projects, previously selected via competitive solicitations, will be expanded to accelerate scale-up and field testing:

- Ramgen Modification (\$20 million): funding will allow the industrial-sized scale-up and testing of an existing advanced CO2 compression project with the objective of reducing time to commercialization, technology risk, and cost. Work on this project will be done in Bellevue, WA.
- Arizona Public Services Modification (\$70.6 million): funding will permit the

existing algae-based carbon mitigation project to expand testing with a coal-based gasification system. The goal is to produce fuels from domestic resources while reducing atmospheric CO2 emissions. The overall process will minimize production of carbon dioxide in the gasification process to produce a substitute natural gas (SNG) from coal. The host facility for this project is the Cholla Power Plant located in Holbrook, AZ.

Geologic Sequestration Site Characterization: \$50 million will fund a competitive solicita-

tion to characterize a minimum of 10 geologic formations throughout the United States.

Tom Borelli, director of the Free Enterprise Project of the National Center for Public Policy Research, is confronting Caterpillar Inc. management at the corporation's shareholder's meeting in Chicago Wednesday, asking the corporation to increase the transparency of its lobbying activities.

Borelli is zeroing in on Caterpillar's lobbying for cap-and-trade, which, Borelli says, would "increase the cost of

coal, natural gas and gasoline - sources that supply 85% of our energy needs -- in an effort to reduce carbon dioxide emissions. Economic studies on cap-and-trade have consistently found these regulations would lead to higher energy prices, slower economic growth and an increase in job losses." Borelli is attending the Caterpillar stockholder meeting in his capacity as portfolio manager of the Free Enterprise Action Fund, a mutual fund that uses investment and advocacy to promote the free enterprise system.

Coal Leader Product News

Jennmar Offers Advanced Ground Control Engineering

Keystone Mining Services is the engineering affiliate company of Jennmar Corporation that oversees research and development. KMS conducts extensive ground control engineering for Jennmar.



KMS has made improvements to its computer modeling packages, including primary and supplemental bolting, pillar design, optimum longwall orientation and mining sequence, and seam interaction stresses.

The ultimate goal of Keystone Mining Services and Jennmar is to utilize existing and new products and advanced ground control engineering to improve mine safety and productivity.

NEW Bucyrus VAST™ Shovel Simulator Delivers Cost Effective Operator Training!

Bucyrus International, Inc. announced the introduction of the new VAST™ System (Value Added Simulation Training) specifically for Bucyrus electric mining shovels. VAST™ is designed to reduce training costs, increase productivity, and improve training effectiveness. Studies have shown that new operators who receive training with VAST™ prior to field training consistently maintain a higher level of productivity that those who do not receive simulator training. The VAST system has a low cost to purchase and operate; all that is needed is the VAST software, an updated Windows based PC, a monitor, and two joysticks.

VAST™ gives an introduction to the basics of safe, productive shovel operation and also serves as refresher training for more seasoned operators. Simulator users are placed at the controls of a Bucyrus shovel in a virtual mine and interact with a simulated haul truck. The VAST™ system

contains a total of 8 different training modules including: Control Familiarization, Shovel Positioning, Following Grade, Cab-side Dumping, Blind-side Dumping, Single-pass Digging, Cab-side loading, and Blind-side Loading. Simulator results can be saved in a database and reviewed by the user and training instructor only.

AMR's Tagging & Tracking Approved

AMR's Tagging and Tracking System has been approved under the State of WV Legislative Rule Title 56, Series 4.

The Tagging and Tracking System allows mine operators to track the movement of individuals and equipment in the mine continuously and receive messages from underground.

The system design consists of an active tag attached to the miner's helmet or mine equipment and readers placed in selected zones throughout the mine. The miner can send coded messages to the surface through the smart tag.

The Two-Way Text Messaging Device will meet the 2009 requirements by allowing the miner to compose, send, receive, and save messages through a handheld RF device. Not only will this device provide two way communications but it will also provide memory for safety measures, mine directions, and contacts.



Both systems will work in conjunction with our existing atmospheric monitoring system or as a stand-alone system. We hope that our systems will provide a step forward in enhancing mine rescue efforts as well as become an essential in taking the safety of your miners to the next level.

For more information or to schedule a demonstration at your location, contact Amanda Ruble 276-928-1712 ext. 221 aruble@americanminere-

search.com or visit www.americanmineresearch.com.

FLEXCO INTRODUCES THE ELECTRIC BELT CUTTER

Flexco is pleased to announce the introduction of its Electric Belt Cutter. It has been engineered to provide quick and easy cuts on all types of belting from the softest of natural rubbers to the hardest constructed solid woven PVC and fabric plied belts.



The Electric Belt Cutter is available in two sizes and specifically designed to allow the end user to cut belts quickly and safely resulting in less conveyor downtime, and overall increased productivity. The EBC1 Electric Belt Cutter is capable of cutting a rubber belt up to 1" (25 mm) and up to a maximum 360 P.I.W. (630 N/m) on PVC belts while the EBC2 cuts rubber belts up to 2" (50 mm) and up to a maximum 1140 P.I.W. (2000 N/m) on PVC belts.

Not only is the Electric Belt Cutter much easier and faster than conventional cutters, but it also allows for longitudinal cuts as well as angled cuts.

The high speed, steel blade is dual angled for a smooth, accurate cut and is protected by a spring loaded blade guard for enhanced worker safety.

The sealed ball bearings that support the belt during cutting provide nearly friction free feeding of the cutter on the cutting surface requiring minimal effort by the operator. Its heavy duty stainless steel construction is strong, durable, and corrosion free and the permanently sealed gearbox provides for long lasting, maintenance free

operation. The Electric Belt Cutter can also be easily adapted for either right or left hand operation.

For more information, visit Flexco's website at www.flexco.com, or contact the Customer Service Department, Flexco, 2525 Wisconsin Ave., Downers Grove, Illinois, 60515-4200, USA. Phone (630) 971-0150; fax (630) 971-1180.

Suspended Belt Magnets

Suspended Belt Magnets are constructed with an oversized Plate Magnet. They are designed for suspension above a belt conveyor and are engineered to remove ferrous contaminants from high volume deep burdens. As product passes under the magnet, metal contaminants are drawn out of the material to the face of the magnet. This style of magnet should be installed at the



discharge of the head pulley if possible.

Material will be flowing more freely and can be thrown into the face of the magnet increasing the separation results over an installation that has the magnet suspended over a troughed belt. This can be supplied with a wiper arm or stripper plate to simplify cleaning.

For automated continuous cleaning, a POW-R CLEAN option can be selected which incorporates a set of pulleys, belt, motor, and reducer that travels around the Suspended Belt Magnet discharging metal contaminants automatically.

Suspended Belt Magnets can be installed in an in-line or cross belt configuration. Used in such industries as: feed & grain, concrete recycling, mining operations, municipal recycling, scrap yards, and other recycling and bulk processing industries. For more information contact: Andrea Ezyk, Puritan Magnetics, Inc., 465 S. Glaspie St., Unit B, Oxford, MI 48371 Phone: 248-628-3808; Fax: 248-628-3844 Email:

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Jennmar Offers Advanced Ground Control Engineering

Keystone Mining Services is the engineering affiliate company of Jennmar Corporation that oversees research and development. KMS conducts extensive ground control engineering for Jennmar. KMS has made improvements to its computer modeling packages, including primary and supplemental bolting, pillar design, optimum longwall orientation and mining sequence, and seam interaction stresses.

The ultimate goal of Keystone Mining Services and Jennmar is to utilize existing and new products and advanced ground control engineering to improve mine safety and productivity.

Cat 854K Wheel Dozer Features Offers New Features

The Caterpillar 854K wheel dozer incorporates innovations to lower engine emissions and boost fuel efficiency, improve reliability and serviceability, and optimize operator efficiency and comfort. Specifically, the 854K uses a highly efficient Cat C32 engine and a new radiator with improved heat transfer capabilities. A variable speed demand fan aids efficiency. For the operator, a new, larger cab includes a trainer's seat, and a new low-effort joystick controls all blade functions.



The 854K replaces the 854G and retains the best features, including the impeller clutch torque converter for superior operator control and optimum power to the ground, lockup clutch for direct drive efficiency, and STIC™ control system for reduced steering and transmission control effort.



J and R Manufacturing, Inc.

This advertisement features a collage of industrial electrical components. The top left shows several five-pole connectors with brass contacts and white plastic housings. The top right displays various tools including pliers and wire cutters. The center and bottom left show larger two-pole connectors with brass contacts and white housings. The bottom right shows a collection of small black and white electrical components. Text labels are placed around the images to describe the products.

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