



families for PA coal

You Are the Coal Economy

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Did you know...?

Today's coal-based electricity generating fleet is 70% cleaner than it was in 1970 (based upon emissions per unit of energy produced). And, that is just a start. The coal industry is committed to remaining a viable part of the energy mix and to continually reducing emissions of pollutants regulated under federal and state clean air laws.

Currently, 56% of Pennsylvania's electricity is generated by coal. All alternatives (wind, solar, biofuels) combined make up only 3%.

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New Television Commercial Needs a Reality Check

Have you seen the new clean coal bashing commercial? If you spend anytime in front of a television set, you will. It seems to be aired every 10 minutes on MSNBC, and has been since before Christmas.

The TV advertisement begins with a man saying he is at a "state of the art" clean coal production facility. He puts on a hard hat and opens the door revealing, to the audience, a barren desert and then, sarcastically, says "take a good, long look. This is today's clean coal technology." A few seconds later, the message "In reality, there is no such thing as clean coal" scrolls across the screen.

The assault didn't stop with the TV ads. Just in time for the presidential inauguration when millions of people would be using the subways, all of the display ads at Washington D.C.'s Metro Center featured messages declaring "clean coal" a myth. These ads contained mythical creatures such as aliens and "big foot" holding pieces of coal.

So who is behind this anti-coal campaign? A group referring to itself as the Reality Coalition is responsible. This appears to be a collaborative effort by some of the usual suspects (Al Gore's Alliance for Climate Protection and the Sierra Club) along with the League of Conserva-

tion Voters, National Wildlife Federation, and the Natural Resources Defense Council. It seems that they would like to see coal eliminated from the nation's energy mix and discredit any possibility of "clean coal technologies". While attacking our industry, however, they fail to offer any concrete replacement for meeting over 50% of our nation's energy needs that is currently fueled by coal. According to the National Energy Technology Laboratory, the coal-fired power plants built today emit 90% less pollutants than those built in the 1970's or prior, proving that clean coal technology is working. Building new coal fired power plants to replace those using older technology would greatly reduce total emissions while at the same time keep pace with our increasing en-



ergy demands.

In reality, the Energy Information Administration (EIA) estimates by 2030 electricity demand will increase by 40%. That means the energy crisis is only going to get worse and we will need every source available to produce electricity. Yes, we will need a lot of that four letter word - "COAL". Supporting "clean coal technology" is a win/win situation - providing good jobs; affordable electricity; and the use of abundant, domestic energy.

F.O.R.C.E. Members Comment On Claims Made In Ad

Steven E. Winberg, Vice President
Research & Development for
CONSOL Energy Inc.

"There is such a thing as "Clean Coal". It just requires the desire of our country to make the necessary investment in coal, our most abundant domestic energy resource. Coal generated electricity has almost doubled since 1970 and total emissions are less than half of what they were in 1970 with further emissions decreases ongoing. More importantly, Clean Coal technology is currently under development that could result in a virtually emissions-free coal-fueled plant within the next 10 - 15 years. If we make the investment now, domestic Clean Coal can provide thousands of jobs, power our homes, factories and transportation needs, and do it with near-zero emissions."

Jim Barker, Manager of Finance &
Administration for Rosebud
Mining Company

"We believe that clean coal technology is already here, and in place and use at most coal fired power plants. With the US's massive expansion of electrical generation in the last 3 to 4 decades, total pollution is down considerably, such that on a pollution unit per power unit produced basis, the percentage reduction is outstanding. SCR's, scrubbers, mercury control's, etc. are extremely effective as back end devices to capture pollution, and America's current clean air is the result of that. However, all of these technologies are back end devices, intended to correct and clean post combustion emissions. Today's new

Esko Polvi, VP of Operations for
PFBC Environmental Energy
Technology, Inc.

"The whole issue of the environment and the human impact on it has become a feeding ground for some organizations that are fighting to get attention and to attract funding through the creation of controversy. Obviously this organization has picked to create controversy around coal to get attention for their funding.

We have proven technologies such as the PFBC technology available (with several units in successful commercial operation over the past 10 years) to continue building coal fired power plants that improves the efficiency of the existing old plants by about 10 percentage

FEATURED COMPANY

FoundationCoal

Coal mining has been part of the Pennsylvania landscape for hundreds of years, starting with picks and shovels and evolving to today's sophisticated mining technologies. Today, mining is one of America's leading industries.

Foundation Coal Holdings, Inc. affiliates, Emerald Coal Resources, LP and Cumberland Coal Resources, LP, have been working in the Waynesburg area for more than 30 years. The Emerald and Cumberland mines began full production in the 1970s and operate in the Pittsburgh No. 8 Seam. Cumberland and Emerald are both highly-efficient, underground long-wall mines. The miners at Emerald and Cumberland believe that coal is the nation's best fuel for reliable, cost-effective energy and that responsible coal mining represents an intelligent use of the earth's resources. Emerald and Cumberland want everyone to return home after every workday injury free. Safety must be considered an integral part of every activity in the organization. No job is so urgent, no schedule so rigid, that the time cannot be taken to perform the job in a safe manner. Everyone, regardless of their position, is responsible for assuring that safety is incorporated in all things they do.

The mines have been consistently recognized for their efforts in safety. The Emerald and Cumberland mines have invested extensively in comprehensive safety technologies and procedures, including:

- *Early Warning Atmospheric Monitoring Systems*
- *Automated Worker Tracking Systems*
- *Fire Protection System Upgrades*
- *Additional Mine Rescue Teams*
- *Self-Contained Self Rescuers and Emergency Shelters*
- *24/7 Communication Stations at Each Mine*

In 2007, Cumberland shipped a total of 7.2 million clean tons. Coal from the Cumberland mine is shipped by Cumberland's private railroad to the Monongahela River where it is barged to customers throughout the eastern United States. Emerald

shipped a total of 5.8 million clean tons via Norfolk Southern and CSX railroads to customers throughout the Eastern United States.



Cumberland Miners

The Emerald and Cumberland mines are committed to being good corporate citizens and good neighbors, including being a good steward of the environment and an active member of the community. The operations are proud to have supported numerous civic and charitable causes within the Waynesburg and Greene County communities, where their employees live, work and retire. Among the many organizations that have benefited from the mines through donations of money or manpower are:

- *The Foundation Coal Aquatic "A Greene County Family Recreation Center"*
- *Waynesburg Lions Club*
- *King Coal Youth Baseball*
- *Washington-Greene Job Training Agency*
- *Greater Waynesburg Christian Outreach (WWJD)*
- *Greene County United Way*
- *Waynesburg Prosperous & Beautiful*
- *Greene County Conservation District*

The Emerald and Cumberland Mines employ approximately 1,500 people, making them among the largest employers in the area. The employees at Cumberland earned \$89 million in wages and benefits in 2007. At Emerald, the employees earned \$78 million dollars in wages and benefits. Emerald and Cumberland continue to invest in their employees with ongoing training programs and educational opportunities. This provides not only a benefit to the mines, but it rewards employees with a new level of skills that can be used for many years to come. Through these high-paying jobs and unique programs as well as business taxes to the state and county, the mines are proud to provide many positive economic benefits to the communities in which they operate.

Cumberland and Emerald expect to continue to be active participants in the area communities and to generate a strong, positive impact on the local economy for the foreseeable future.

Jim Barker Continued From Page 1

clean coal initiatives involve precombustion gasification that allows the separation of gases prior to their oxidation. While not many commercial plants are in operation with the said technologies, and most new coal plants to be constructed are under opposition from various groups, they will prove that coal emissions can be improved prior to the coal actually being burned.

Carbon sequestration is another matter, in that we do not believe that man made or man released CO₂ is causing a noticeable difference in our climate change. That is very careful wording to suggest that because it has been being monitor for such a short period of time on a scale relatively large (millions of years) the sample size is way too small to truly show any scientific truths either direction. Rather, because of the enormity of our atmosphere and ice ages coming and going, and solar and magnetic influences from the sun not well understood, we simply cannot believe that we are having a dramatic effect on global weather and that modern science can prove or disprove it. When weather forecasters have difficult times predicting daily, weekly, monthly, or annual rainfall and temperatures, it is hard to imagine we can scientifically pinpoint if climate change not naturally induced is occurring and if it is, what specifically is causing it. Therefore, in our minds the clean coal argument regarding CO₂ is moot, as to step into that argument is to inadvertently acknowledge CO₂ induced climate change is real."

Esko Polvi, Continued From Page 1

points (i.e. from 30 – 35 % efficiency to 40 – 45%).

Rather than assist in the development of technology the unfortunate approach many so called "environmental" organizations have taken, to serve their self interest, stalls and delays the opportunity to improve our energy production base and to provide cleaner, affordable, and reliable energy to all consumers.

I suggest to those organizations that rather than fight the access to cleaner, reliable, and affordable energy they would add more value to the common good if they participate and support the ongoing development of new technologies to the point that they are technically and economically justifiable for use.

If the organizations wants to promote solar and wind I have nothing against letting them build as many as they want provided they conform to the same rules as everybody else and are not subsidized by the other technologies that meet the requirements. The market economy will sort out what is competitive and what is not."

WELCOME

NEW F.O.R.C.E. MEMBER COMPANIES AND EMPLOYEES

Phillip ReeseCoal Company
Coal Producer

Lincoln Manufacturing, Inc.
Manufacturing and Machining Facility Specializing in Hydraulic Rebuilds

Legislative Issues:

New Session Begins Amid Budget Crisis

Pennsylvania's 2009-10 legislative session began on Tuesday, January 6, as 34 freshman lawmakers (27 in the House; 7 in the Senate) joined returning members to take their oath of office.

Following the swearing-in ceremonies, each Chamber predictably elected its presiding office.

With Democrats holding a five seat majority (104-99) in the House, Representative Keith McCall (D-Carbon) was elected in a party-line vote as the 136th Speaker of the Pennsylvania House. Representative McCall's opponent was House Republican Floor Leader Sam Smith (Jefferson).

Meanwhile, with Republicans controlling the Senate 29-20 (with one vacancy), Senator Joseph Scarnati (R-Warren) was unanimously elected to another term as President Pro Tempore. (Senator Scarnati also serves as acting Lieutenant Governor, a role that he assumed with the death of Catherine Baker Knoll in December.)

Addressing a potential \$2 billion to \$3 billion deficit in the state's current fiscal year budget is the most immediate challenge facing the Legislature and Governor Rendell.

The Governor presented his much anticipated 2009-10 budget proposal on February 4, in his annual address to a joint session of lawmakers. Afterwards, both the House and Senate Appropriations Committees began their public hearings on the proposed spending plan.

The state constitution requires a balanced budget to be enacted and in place at the start of each new fiscal year, which in this case will be July 1, 2009.

Information Provided by the PA Coal Association

F.O.R.C.E. Update

F.O.R.C.E. to host "The Coal Miner's Daughter", Loretta Lynn at its annual fundraiser. Plans are well underway for this year's Black Diamond Dinner; our sponsorship dinner and major fundraiser. F.O.R.C.E.'s coal awareness campaign relies on the success of this event and the generosity of our sponsors. This year's dinner and concert will be held at the Pepsi Cola Roadhouse. To obtain more information about the event and sponsorship opportunities, please contact the F.O.R.C.E. office (724-684-8052).

Over the past two months, the F.O.R.C.E. staff has been busy planning for this year's projects. Our outdoor advertising remains in full force and continues to expand into eastern Pennsylvania. We have, also, posted our message on the LED board in the Latrobe airport and are reaching out to other markets by placing banner ads on DVE, KISS and four other Clear Channel websites as well as airing a radio commercial on Froggy.

All of the above would not be possible without the support and generosity of our members and sponsors. Each year we face the challenge of raising funds at our annual "Black Diamond Dinner" to be able to counter the negative publicity being promoted by our adversaries. They truly are well funded organizations that have made the demise of coal their major goal. These groups flood the media with negative information and have spent millions of dollars on their new "This is Reality" campaign (article on front). We in the coal industry cannot let this happen. We must fight back – coal is not only our jobs and our businesses but it means affordable, reliable, domestic energy for our families, friends and neighbors. To learn more about F.O.R.C.E. visit www.families4pacoal.org



families for PA coal

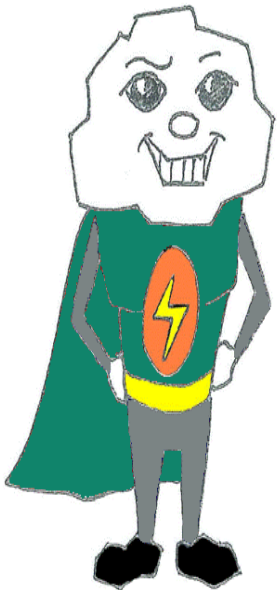
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Coal An Affordable and Reliable Energy Source

Kids Corner



Hey Kids,

Have you heard the phrase Clean Coal Technology (CCT)? If not, you soon will. Everyone from political leaders, to teachers and maybe even your parents are talking about it! Take a look at some of the CCT technologies that will soon be used to make the energy we need!

When coal is burned, it releases impurities such as sulfur, nitrogen, and fly ash. These can pollute the air or contribute to "acid rain". Today, though, 99 percent of the chemicals that pollute the air and more than 95 percent of the chemicals that can cause acid rain are removed.

The various technologies that clean coal and contain the emissions released when it is burned are called **Clean Coal Technology (CCT)** and include the following.

Flue Gas Desulfurization Systems or "Scrubbers"
- During this method, flu gas is sprayed with a mixture of

water and limestone. The mixture reacts with the sulfur dioxide to form a bi product that is used to make drywall and concrete blocks.

Electrostatic Precipitators- these devices give coal dust particles an electric charge and then they are attracted to a collector plate.

Coal Gasification - This processes changes coal into gas . Coal gas burns cleaner than coal because many pollutants are removed during the transformation process. This method can remove up to 99.9 percent of the sulfur from burning coal .

Fluidized Bed Combustion (FBC)- This method involves inserted coal into a bed of particles that react with the coal to heat the boiler more cleanly. In FBC, coal is burned at a slightly lower temperature which prevents some of the nitrogen oxide gases from forming.

Carbon Capture and Storage (CCS) - catches carbon dioxide emissions from a power plant contains and stores them underground.

COAL Generating Power For America And Jobs For PA