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**UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**WASHINGTON, DC 20549**

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**FORM 8-K**

**CURRENT REPORT**  
**Pursuant to Section 13 or 15(d)**  
**of the Securities Exchange Act of 1934**

**Date of report (Date of earliest event reported): June 12, 2007 (June 12, 2007)**

**Arch Coal, Inc.**

(Exact name of registrant as specified in its charter)

Delaware  
(State or other jurisdiction of  
incorporation)

1-13105  
(Commission File Number)

43-0921172  
(I.R.S. Employer Identification No.)

CityPlace One  
One CityPlace Drive, Suite 300  
St. Louis, Missouri 63141  
(Address, including zip code, of principal executive offices)

Registrant's telephone number, including area code: (314) 994-2700

Check the appropriate box below if the Form 8-K filing is intended to simultaneously satisfy the filing obligation of the registrant under any of the following provisions:

- Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)
  - Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)
  - Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))
  - Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))
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**Item 7.01 Regulation FD Disclosure.**

On June 12, 2007, Steven F. Leer, Chairman and Chief Executive Officer of Arch Coal, Inc., will deliver a presentation at the JP Morgan 2007 Basics & Industrial Conference that will include written communication comprised of slides. The slides from the presentation are attached hereto as Exhibit 99.1 and are hereby incorporated by reference.

A copy of the slides will be available at [www.shareholder.com/archcoal/events.cfm](http://www.shareholder.com/archcoal/events.cfm) for 30 days.

**Item 9.01 Financial Statements and Exhibits.**

(d) Exhibits

The following exhibits are attached hereto and furnished herewith.

<u>Exhibit No.</u>	<u>Description</u>
99.1	Slides from the presentation at the JP Morgan 2007 Basics & Industrial Conference.

**Signatures**

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

Dated: June 12, 2007

Arch Coal, Inc.

By: /s/ Robert J. Messey

Robert J. Messey

Senior Vice President and Chief Financial Officer

**Exhibit Index**

Exhibit No.	Description
99.1	Slides from the presentation at the JP Morgan 2007 Basics & Industrial Conference.



**JP Morgan 2007  
Basics & Industrial Conference**

Steve Leer,  
Chairman and CEO

New York  
June 12, 2007

**Unearthing Value**

Arch Coal, Inc. 



## Forward-looking information


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This presentation contains “forward-looking statements” – that is, statements related to future, not past, events. In this context, forward-looking statements often address our expected future business and financial performance, and often contain words such as “expects,” “anticipates,” “intends,” “plans,” “believes,” “seeks,” or “will.” Forward-looking statements by their nature address matters that are, to different degrees, uncertain. For us, particular uncertainties arise from changes in the demand for our coal by the domestic electric generation industry; from legislation and regulations relating to the Clean Air Act and other environmental initiatives; from operational, geological, permit, labor and weather-related factors; from fluctuations in the amount of cash we generate from operations; from future integration of acquired businesses; and from numerous other matters of national, regional and global scale, including those of a political, economic, business, competitive or regulatory nature. These uncertainties may cause our actual future results to be materially different than those expressed in our forward-looking statements. We do not undertake to update our forward-looking statements, whether as a result of new information, future events or otherwise, except as may be required by law. For a description of some of the risks and uncertainties that may affect our future results, you should see the risk factors described from time to time in the reports we file with the Securities and Exchange Commission.

Slide 2







Growing Energy Needs  
and the Case for Coal

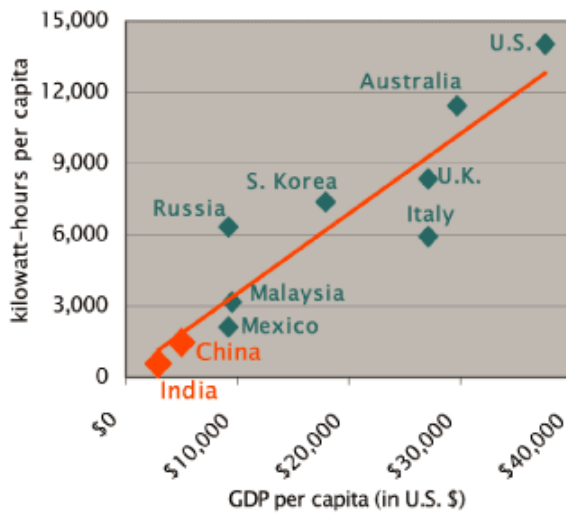
Unearthing **Value**

Arch Coal, Inc.

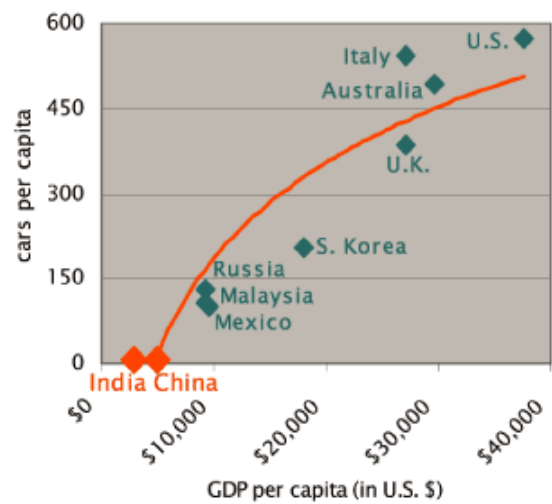


# Developing nations will increase energy use, putting pressure on global supply

### Electricity Usage per Capita



### Passenger Vehicles per Capita

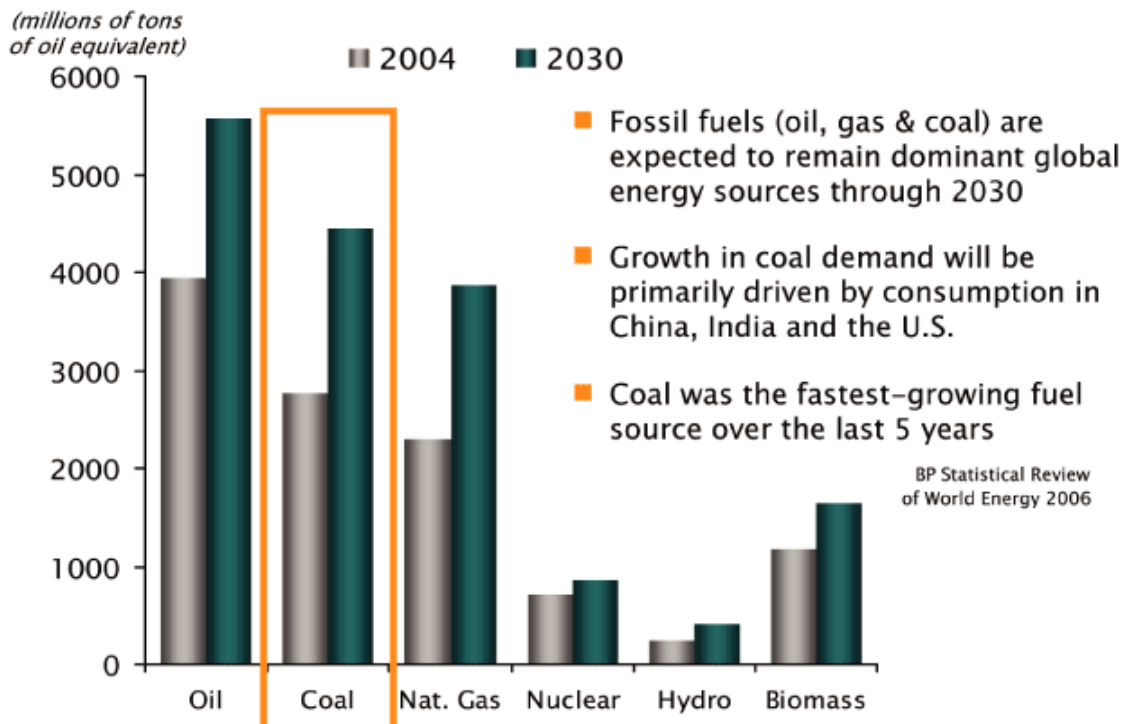


Slide 4

Source: United Nations' Human Development Report 2005, 2005 World Development Indicators (World Bank)



# IEA projects significant continued growth in coal use over the next 25 years

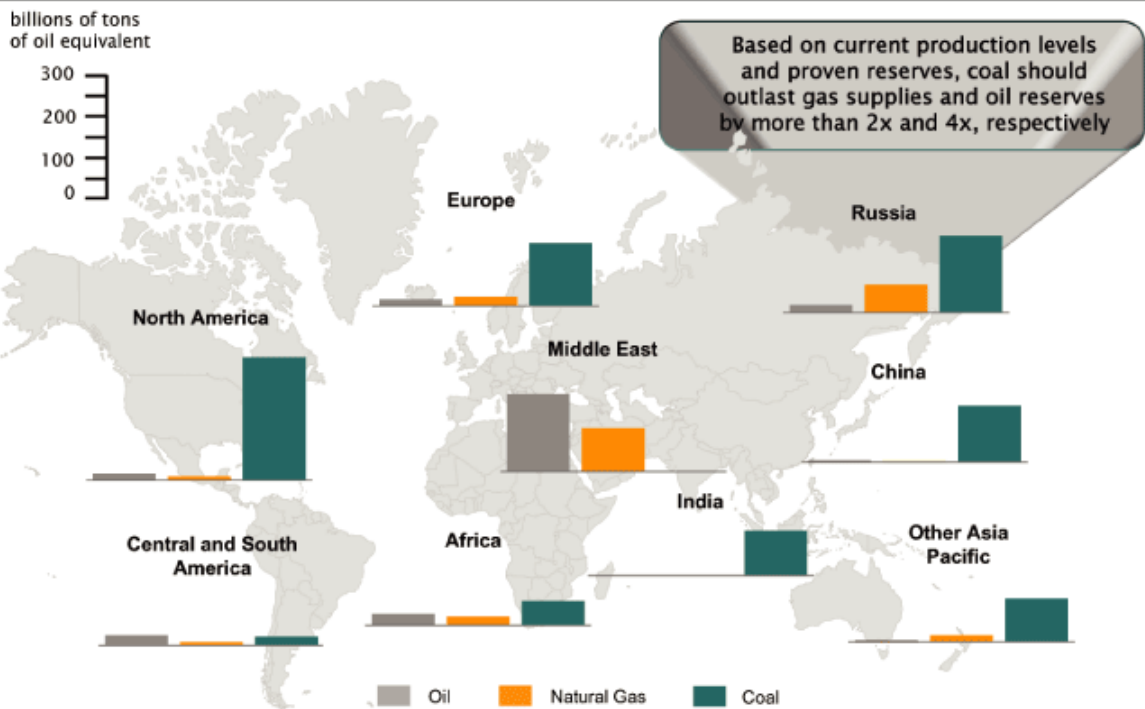


Slide 5

Source: International Energy Agency's World Energy Outlook 2006



# Coal's advantage: abundant, secure and widely dispersed



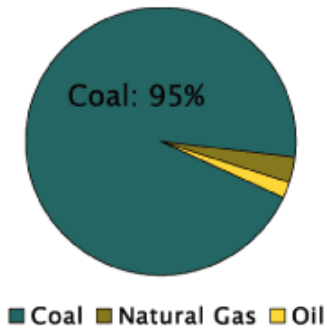
Slide 6

Source: Bank of America, BP Statistical Review and Blackwell Energy Research

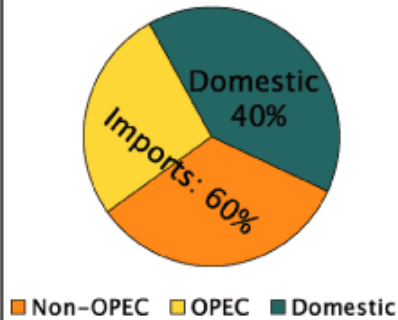


# Coal is a vital part of America's energy future

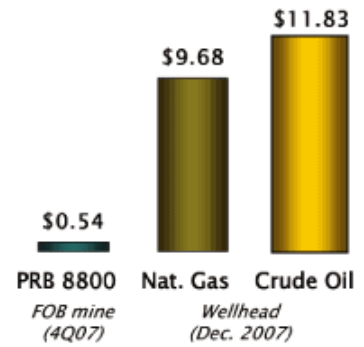
U.S. Energy Reserves  
(in trillion Btu)



U.S. Petroleum Supply  
(million bbls per day)



U.S. Fuel Prices  
(\$/mm Btu, at 6/1/07)



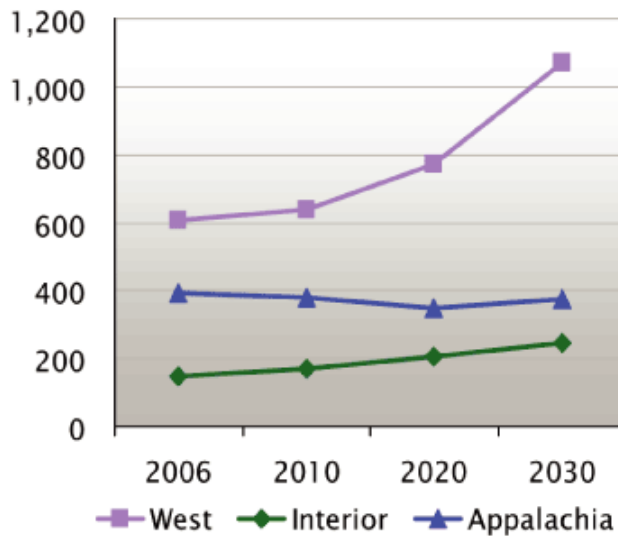
Slide 7

Source: EIA, Platts and NYMEX



## EIA expects coal supply to continue shifting from East to West

Long-Term Coal Production Forecast  
(in million tons, per EIA)




- Powder River Basin will continue to supply most growth over next 5 years
- Illinois should play a larger role in future
- Western coal is expected to grow market share to more than 60% by 2030 despite scrubber technology coming online

Slide 8

Source: EIA and ACI





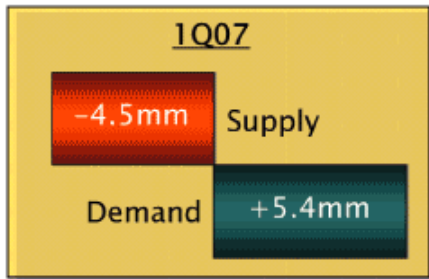
Current Trends

Unearthing Value

Arch Coal, Inc.



# Bullish market drivers are helping to strengthen coal markets in 2007

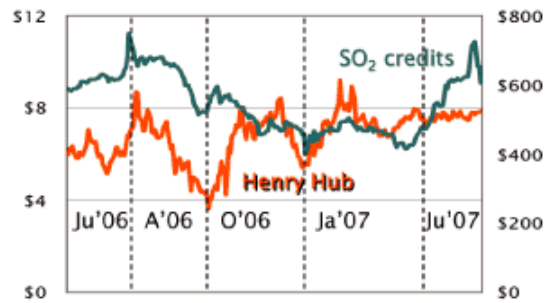


- Electric generation up 3.5% YTD
- Production cuts/supply pressures (CAPP)



- Strong seaborne markets
- Increased met / export opportunities

Slide 10



- Higher natural gas prices
- Increasing SO<sub>2</sub> allowance prices



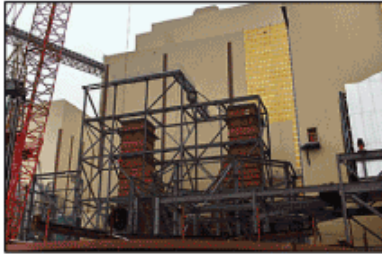
- New coal plants on the horizon

Source: ACI, EIA, MSHA, Coal Daily, NYMEX





# Construction is now underway on more than 10 GW of new coal-fueled capacity



WPS Weston #4 (Wisc.)  
500 MW / June 2008



Cleco Rodemacher #3 (La.)  
600 MW / June 2008



OPP Nebraska City #2 (Neb.)  
663 MW / May 2009



T.S. Power Boulder Valley (Nev.)  
200 MW / Jan. 2010



Dallman IV (Illinois)  
250 MW / Jan. 2010

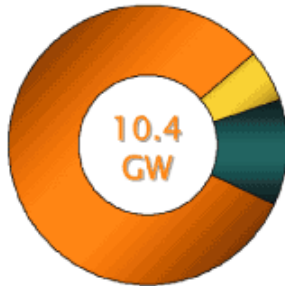


Elm Road Generating (Wis.)  
600 MW / July 2009



# Arch's PRB operations may prove advantageous for sourcing new coal plants

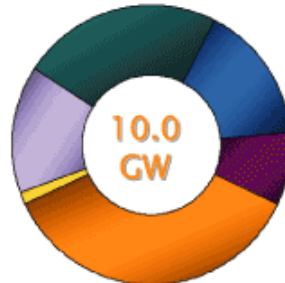
## Under Construction



PRB CAPP Illinois

- ✓ Total coal demand of 40 million tons
- ✓ Powder River Basin expected to capture 35 million tons

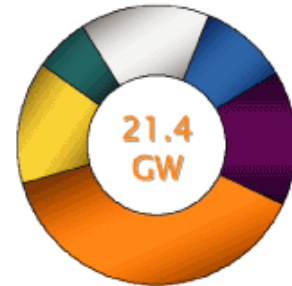
## Advanced Development



PRB CAPP WBIT  
Illinois NAPP Lignite

- ✓ Total coal demand of 34 million tons
- ✓ Powder River Basin expected to capture 12 million tons

## Early Development



PRB CAPP Illinois  
Other NAPP Lignite

- ✓ Total coal demand of 79 million tons
- ✓ Powder River Basin expected to capture 34 million tons

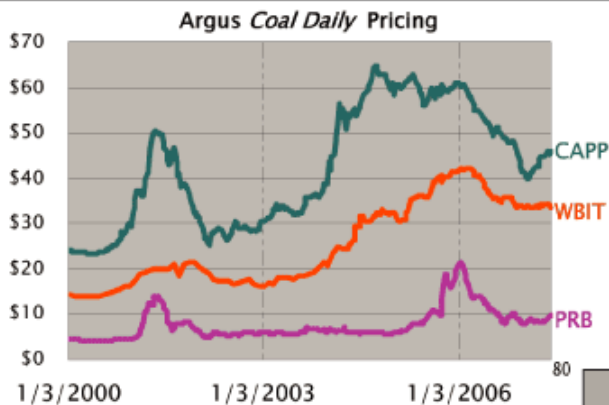
Net new coal-fueled generating capacity announcements total close to 80 GW

Slide 12

Source: Platts and ACI



# While future prospects are bright, near-term challenges persist

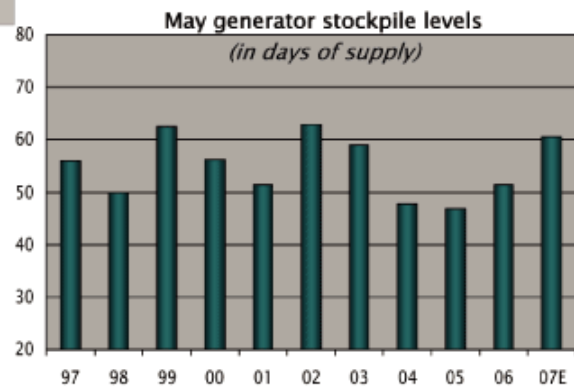


## Signs of a turn?

- ▶ CAPP prices starting to rise
- ▶ WBIT prices fallen from peak but remain relatively strong
- ▶ PRB prices have "ticked" up

## Stockpile levels at generators

- ▶ Current estimate is above the 5-year average
- ▶ Levels are relatively high heading into summer season



Slide 13

Source: ACI, EIA and Coal Daily



# Climate concerns also present a challenge, yet support for clean-coal technologies is growing



**"...we'll need to invest more in the clean technology that will allow us to burn more coal, our country's most abundant fossil fuel."**  
Senator Barack Obama (D-IL)



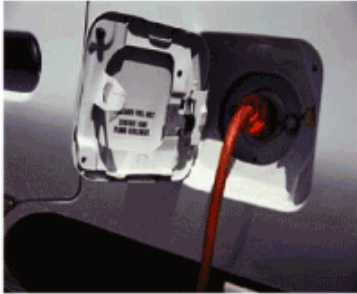
**"The Strategic Energy Fund would provide \$3.5B in incentives and grants to speed the development of more clean coal plants across the country ..."**  
Senator Hillary Clinton (D-NY)



**"We have a coal industry in our country that cannot be ignored. We want technology to be the answer ... My view is that we must move in a very strong, forceful and generous way in investing in the research for sequestration..."**  
Nancy Pelosi, Speaker of the House (D-CA, 8<sup>th</sup> District)



## Over the long-term, clean-coal technologies can create new markets for coal



- A plug-in hybrid is one entry for coal into the transportation market

- ▶ *Likely to create significant off-peak demand for electricity*

- Coal can be converted into ultra-low-sulfur diesel fuel


- ▶ *At current oil prices, coal-to-liquids facilities appear economically feasible*

- Gasification can reduce emissions & transform coal into pipeline-quality natural gas

- ▶ *IGCC & CCS should enable coal to prosper in a carbon constrained world*

Public policy initiatives aimed at domestic energy security are leading to energy legislation and financial incentives for clean-coal-technology development





About Arch Coal

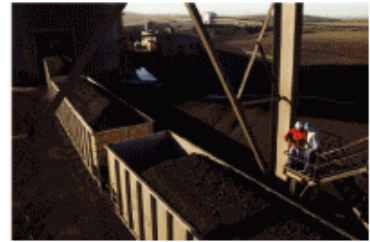
Unearthing Value

Arch Coal, Inc.



## About Arch Coal, Inc.

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- One of the largest coal producers in the U.S.
- Core business is providing U.S. power generators with clean-burning, low-sulfur coal for electric generation
  - ▶ *Supplies roughly 11% of U.S. coal needs*
  - ▶ *Provides source fuel for roughly 6% of U.S. electricity*
- Talented workforce operates large, modern mines
- Industry leader in mine safety, productivity and reclamation

Slide 17

Source: ACI



# About Arch Coal, Inc.

## Powder River Basin

1. Coal Creek
2. Black Thunder

## Western Bituminous

1. Skyline
2. Dugout
3. Sufco
4. West Elk

## Illinois Basin

*Knight Hawk*

## Central Appalachia

1. Mountain Laurel
2. Coal-Mac
3. Mingo Logan
4. Cumberland River
5. Lone Mountain

- Leading operating position in all three major low-sulfur basins
- Equity interest in an Illinois Basin producer, Knight Hawk





# Arch has an extensive reserve base that is predominately low-sulfur



■ Compliance ■ Low Sulfur ■ High Sulfur

- Reserve base of 2.9 billion tons
- Reserve life that exceeds 20 years
- Approximately 80% of reserve base is compliance quality

## Reserves by region (in million tons)



PRB  
(1,829)



WBIT\*  
(464)



ILB  
(220)



CAPP  
(402)

Slide 19 *\*Includes southern Wyoming*

Source: ACI



## Arch's long-term success depends on three pillars of performance

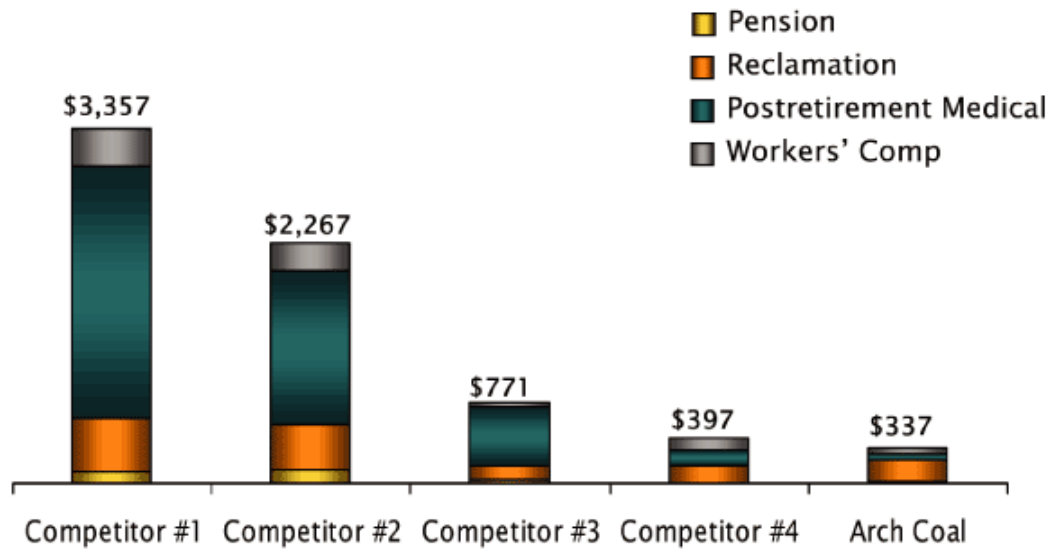


- **Achieving industry-leading productivity rates**
  - ▶ *Three of top eight most productive longwall mines*
  - ▶ *Sufco most productive underground mine in 2006*
  - ▶ *Surface mines produced 167% more tons than industry average*
- **Operating the world's safest coal mines**
  - ▶ *Sentinels of Safety – safest underground coal mine*
  - ▶ *Second-best year on record for lost-time incidents*
  - ▶ *Outperformed the industry safety average by three times*
- **Acting as responsible citizens and environmental stewards**
  - ▶ *National Good Neighbor Award*
  - ▶ *Greenlands Award – best reclamation in West Virginia*

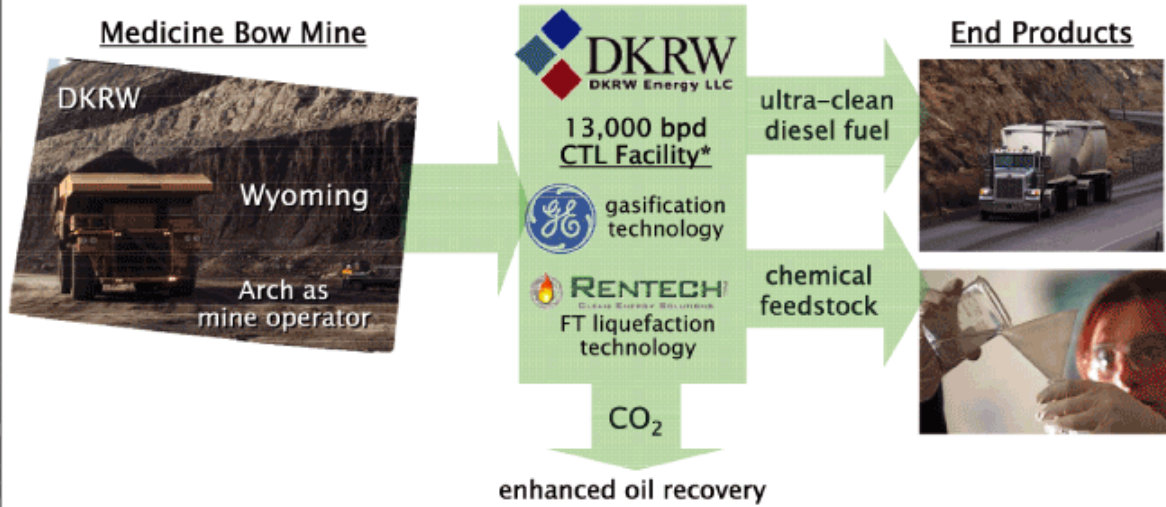


# Arch has the cleanest balance sheet among major U.S. coal producers

Legacy Liabilities of Largest U.S. Coal Companies  
12/31/06 (in millions)



# Arch is expanding coal markets through investment in coal-conversion technologies

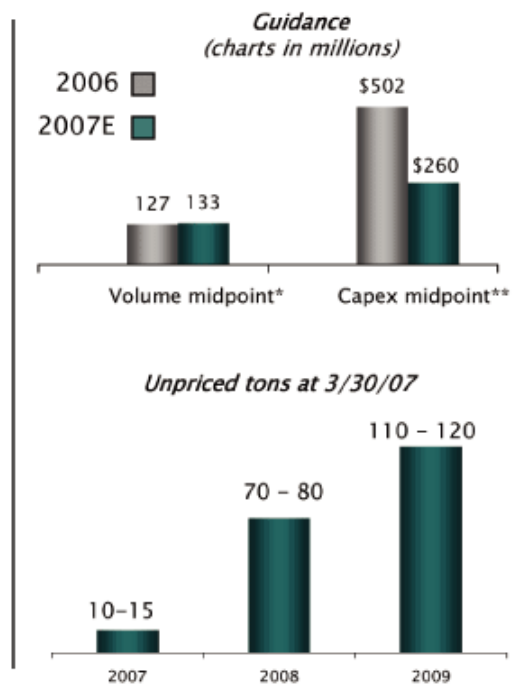


- Arch owns an equity stake in DKRW Advanced Fuels
- Long-term contract in place with Sinclair Oil Corporation to sell ultra-low-sulfur diesel fuel from planned CTL facility



# Arch has reduced production levels and is containing costs in a weak market cycle

- Reduce production targets
  - ▶ *Preserve value of reserves*
- Lower capital spending
  - ▶ *Align spending with market demand and reduced production levels*
- Focus on cost control
- Maintain upside exposure
  - ▶ *Unpriced position translates into more upside potential as market rebounds*
  - ▶ *Creates long-term value for shareholders*



\*Volume excludes pass-through tons associated with Magnum transaction

\*\*Capex excludes reserve additions

Slide 23

Source: ACI



## Arch's future strategic growth possibilities are compelling



- Invest in core businesses to enhance profit growth and return on capital as well as evaluate opportunities to further upgrade and expand reserve base
- Consider acquisitions or investments that strategically fit and create shareholder value
- Expand market for coal (*and perception of coal's value*) through Btu conversion technologies that provide significant upside

