UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
WASHINGTON, DC 20549

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): April 23, 2009 (April 23, 2009)

Arch Coal, Inc.

(Exact name of registrant as specified in its charter)

Delaware	1-13105	43-0921172
(State or other jurisdiction of incorporation)	(Commission File Number)	(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:

o Written communications pursuant to Rule 425 under the Securities Act (17 CFR 230.425)

o Soliciting material pursuant to Rule 14a-12 under the Exchange Act (17 CFR 240.14a-12)

o Pre-commencement communications pursuant to Rule 14d-2(b) under the Exchange Act (17 CFR 240.14d-2(b))

o Pre-commencement communications pursuant to Rule 13e-4(c) under the Exchange Act (17 CFR 240.13e-4(c))

Item 7.01 Regulation FD Disclosure.

On April 23, 2009, Steven F. Leer, Chairman and Chief Executive Officer of Arch Coal, Inc. (the "Company"), will deliver a presentation at the Company's 2009 annual stockholders' meeting. The slides from the presentation are attached as Exhibit 99.1 hereto and are hereby incorporated by reference.

A copy of the slides will be available at http://investor.archcoal.com/events.cfm for 30 days.

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

The following exhibits are attached hereto and filed herewith.

Exhibit No.	Description
99.1	Slides from the presentation at the 2009 annual stockholders' meeting.

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: April 23, 2009

Arch Coal, Inc.

By: /s/ Robert G. Jones
Robert G. Jones
Senior Vice President – Law, General Counsel and Secretary

Exhibit Index

Exhibit No.	Description
99.1	Slides from the presentation at the 2009 annual stockholders' meeting.

Exhibit 99.1

Arch Coal, Inc.

Annual Shareholder Meeting

Steven Leer, Chairman and CEO
Arch Coal, Inc.

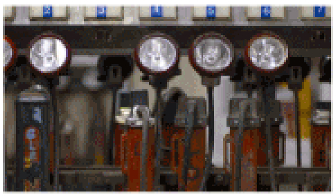
St. Louis, Missouri
April 23, 2009

Forward-Looking Information

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.

This presentation includes certain non-GAAP financial measures, including Adjusted EBITDA. These non-GAAP financial measures are not measures of financial performance in accordance with generally accepted accounting principles and may exclude items that are significant in understanding and assessing our financial results. Therefore, these measures should not be considered in isolation or as an alternative to net income from operations, cash flows from operations, earnings per fully-diluted share or other measures of profitability, liquidity or performance under generally accepted accounting principles. You should be aware that our presentation of these measures may not be comparable to similarly-titled measures used by other companies. A reconciliation of these financial measures to the most comparable measures presented in accordance with generally accepted accounting principles has been included at the end of this presentation.

Record performances in 2008 allow us to build upon our successes in 2009 and beyond



Best **safety** incident rate & total severity rate

Best **environmental** compliance

Best **financial** performance

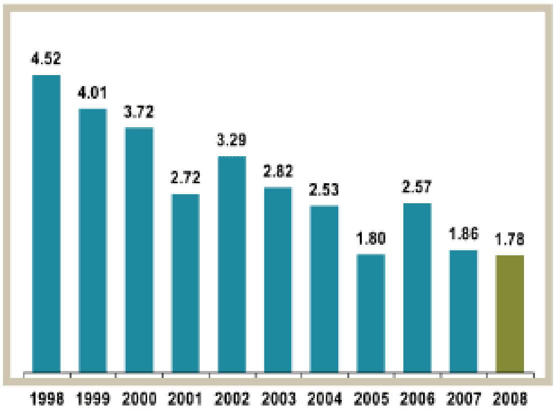
Arch Coal, Inc.

Source: ACI

Our operations are constantly improving upon already industry-leading safety rates

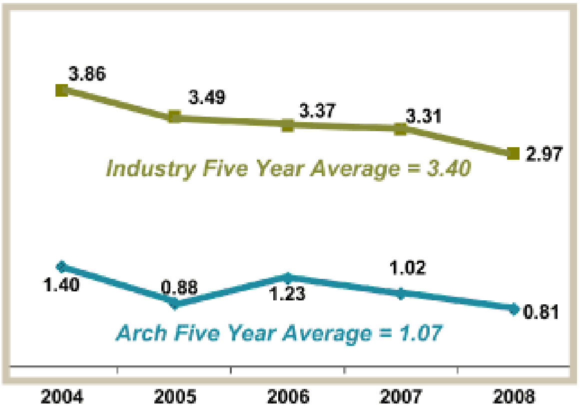
Total Incident Rate 1998-2008

(per 200,000 employee-hours worked)



Lost-Time Safety Incident Rate

(per 200,000 employee-hours worked)

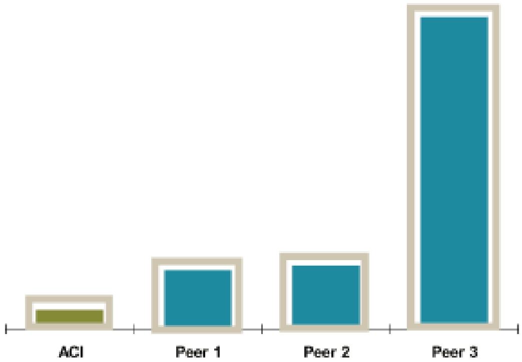


- Our 2008 lost-time incident, total incident and severity rate were the best in the company's history
- 10 mines and facilities achieved zero lost-time incidents

Arch Coal, Inc.

Arch's 2008 environmental performance ranked first among our coal peers

2008 SMCRA Violations
(number of violations compared to key competitors)



- Arch's 2008 environmental performance was the **best** in the company's history
- During the past decade, we've won more than **50 national and state awards** for environmental stewardship, including two National Good Neighbor Awards in 2008
- Our commitment to land reclamation demonstrates Arch's unique culture and dedication as a **responsible corporate citizen**

Arch Coal, Inc.

Sources: ACI and state-by-state reports. Totals do not reflect any NOVs that may have been vacated during an appeals process.

Arch's 2008 financial performance hit a new record

- We set new **company records** in 2008 for revenues, earnings per share, EBITDA, net income and cash flow
- Arch executed a **market-driven approach**, leveraging robust market conditions in first half of year and driving business efficiency and process improvements to year end
- Named among the **Most Trustworthy** Companies of 2008 by *Forbes*

Arch Coal, Inc.

We took steps to enhance our competitive position on many different fronts during 2008

Key developments in 2008

- Completion of state-of-art loadout at Black Thunder
- Transition to E-Seam at West Elk
- Addition of 38.6 million tons of coal reserves in Utah

Arch Coal, Inc.

Source: ACI

2008 clearly demonstrated Arch's ability to excel during periods of market strength

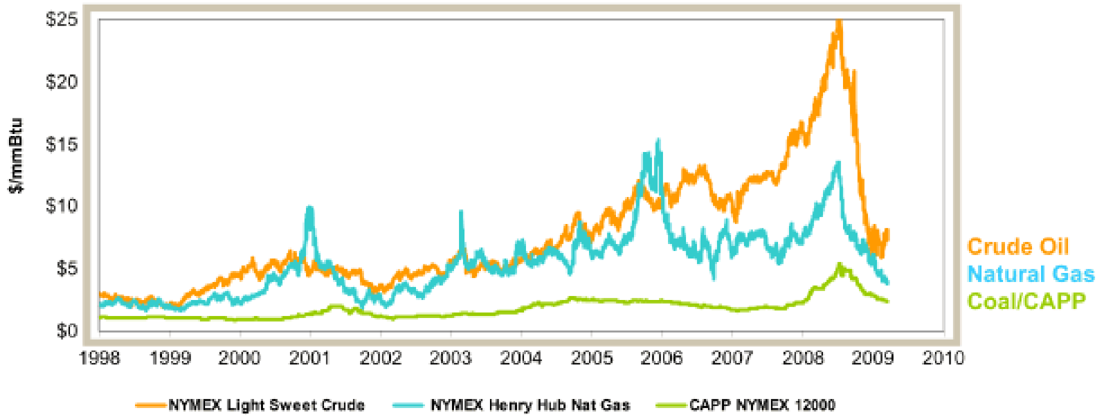


- We capitalized on **strong conditions across all basins**
  - Our CAPP operations enabled us to participate in robust met markets
  - We took advantage of tight global conditions to export additional volumes of Western Bituminous coal
  - We shipped additional PRB tons to Eastern power plants seeking replacement supplies
- We seized opportunities through an **expanded trading function**
- We achieved **strong contributions** from all three of our operating regions

Arch Coal, Inc.

Source: ACI

Needless to say, energy markets have weakened significantly in recent months

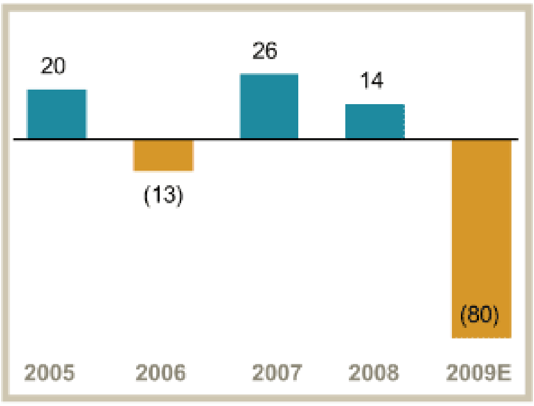


- During the first half of 2008, energy prices strengthened dramatically
  - Oil and natural gas prices soared
  - U.S. exports surged in response to robust global demand
  - Strong steel demand lifted met coal market
- More recently, global economic recession has led to contraction in energy demand

Power generation and coal consumption are likely to be down in 2009, but so will supply

- Global **economic slowdown** is putting pressure on coal markets in near term
  - Expect demand contraction of 80 million tons in 2009, driven by reduced power and export demand as well as the potential for natural gas displacement
- **Supply rationalization** is underway, and will help to rebalance markets
  - Announced domestic coal supply cuts exceed 50 million tons
  - Lack of access to capital is causing financial distress among smaller or leveraged companies

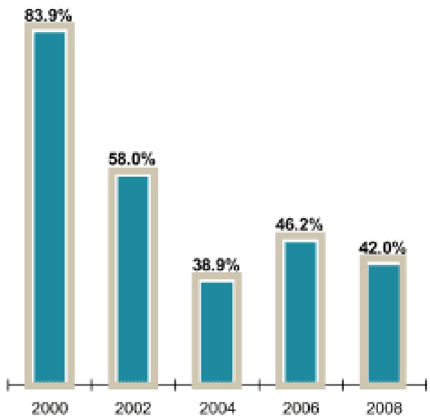
Change in Consumption of U.S. Coal
(in million tons)



Not only can we thrive in good times, but we also are well-positioned to weather tough markets

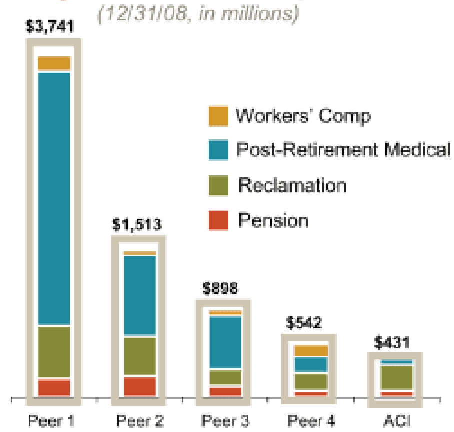
Net Debt as Percentage of Capitalization

(at 12/31)



Legacy Liabilities of Largest U.S. Coal Companies

(12/31/08, in millions)



- Arch has a highly **competitive cost** structure
- We have the **strongest, cleanest balance** sheet among our peers
- Our **national portfolio** approach balances our assets and risk

Arch Coal, Inc.

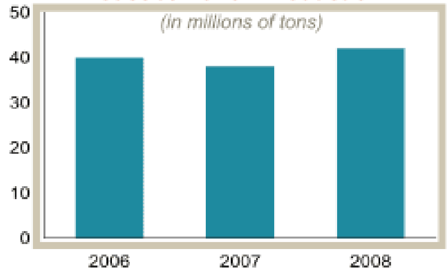
We are taking steps to strengthen that position still further

- Reducing **production** and **capital spending** for current weak market conditions
  - Preserve future value of reserve base
- Diligently managing our **liquidity** and balance sheet to ensure adequate cushion
- Remaining patient in **sales contracting**
  - Layer in sales as market rebounds
  - Use of trading to optimize asset base
- Focusing on **long-term growth** opportunities
  - Announced acquisition of Rio's Jacobs Ranch
  - Permitting new Lost Prairie reserves in Illinois

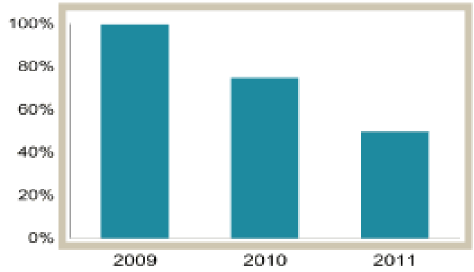
Arch has recently announced plans to acquire the Jacobs Ranch mine in the Powder River Basin

- Purchase price of **$761 million**
- **381 million** tons of low-cost reserves (at 12/31/08) that are contiguous to Black Thunder
- Jacobs Ranch produced **42 million tons** in 2008
  - Average quality over 8,800 Btu per pound
  - Sulfur-dioxide content < 1 lb per million Btu
- Purchase includes major **mining equipment**:
  - Large class dragline
  - Train loadout
  - 8 electric shovels
  - 43 large haul trucks
  - Near-pit crusher and overland conveyor
- **Workforce** of 600 at Jacobs Ranch
- Jacobs Ranch would have contributed incremental EBITDA* of **$145 million to $165 million** for Arch in 2009, assuming a closing date of Dec. 31, 2008

Jacobs Ranch Production

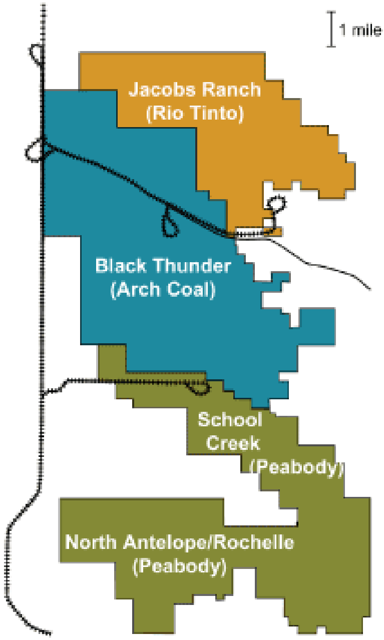


Jacobs Ranch Sales Commitments



The integration of Jacobs Ranch into Arch's flagship Black Thunder mine will create substantial value

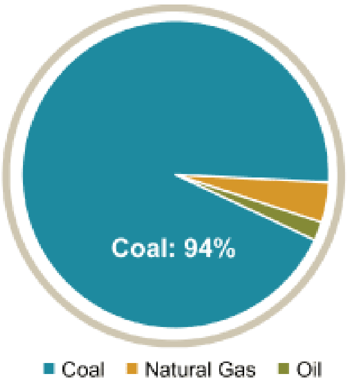
- Jacobs Ranch offers compelling strategic rationale
  - Shares a **6-mile property line** with Black Thunder
  - High-quality reserves with **competitive mining costs**
  - Served by the joint rail line
- Integration will create one of the world's **largest and most efficient mining complexes**
  - Optimization of combined equipment fleet
  - Increased utilization of expanded coal handling system and state-of-the-art rail loadout
  - Greater flexibility in product blending and quality control
  - More efficient inventory management
  - Reduced net capital expenditures
  - Purchasing efficiencies
- Combined mine will have **three loadouts** and 22 train landing spots



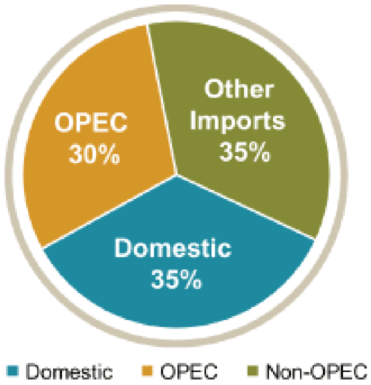
Source: ACI

Longer term, we believe the outlook is very positive

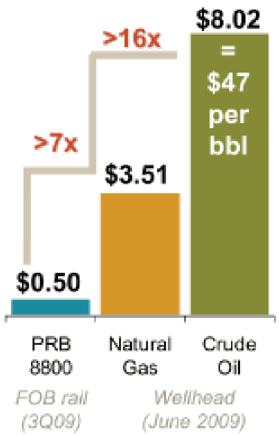
U.S. Energy Reserves
(in trillion Btu)



U.S. Petroleum Supply
(million barrels per day, 2007)



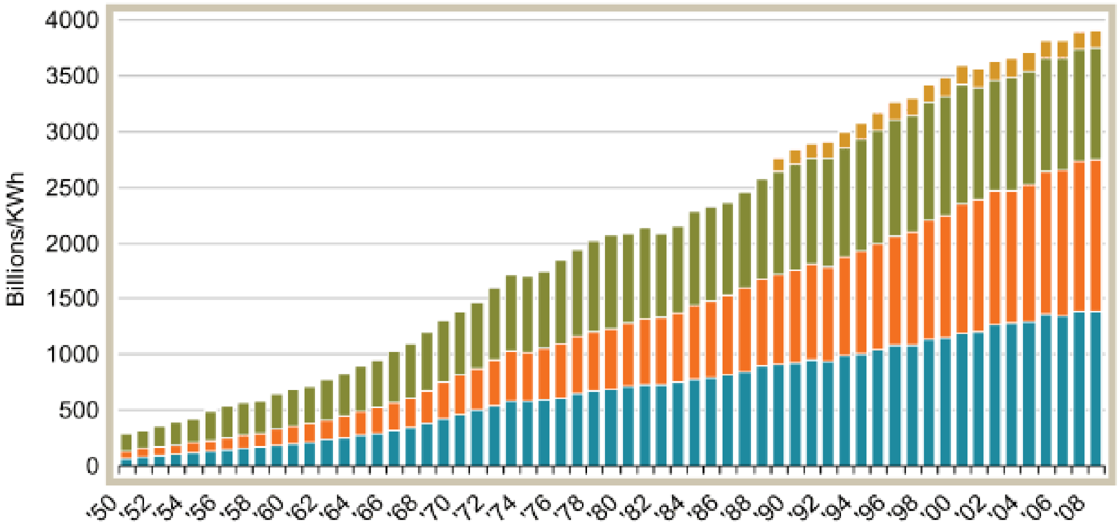
U.S. Fuel Prices
($/million Btu at 4/21/09)



Arch Coal, Inc.

PROGRESSIVE RESPONSIBLE VITAL GROWING

In the United States, electricity demand has steadily climbed since 1950



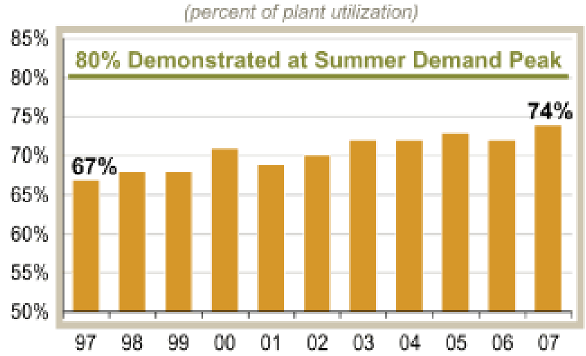
Arch Coal, Inc.

Source: EIA *Includes power sold directly to transportation sector and self-generating power

U.S. coal consumption growth will be driven by increasing capacity utilization and new plant start-ups

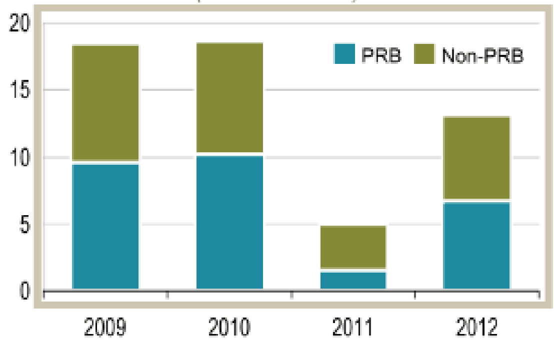
Average Capacity Factors at Existing U.S. Coal-Fueled Power Plants

(percent of plant utilization)



Anticipated Annual Supply Needs for U.S. Coal Plants Under Construction

(in millions of tons)



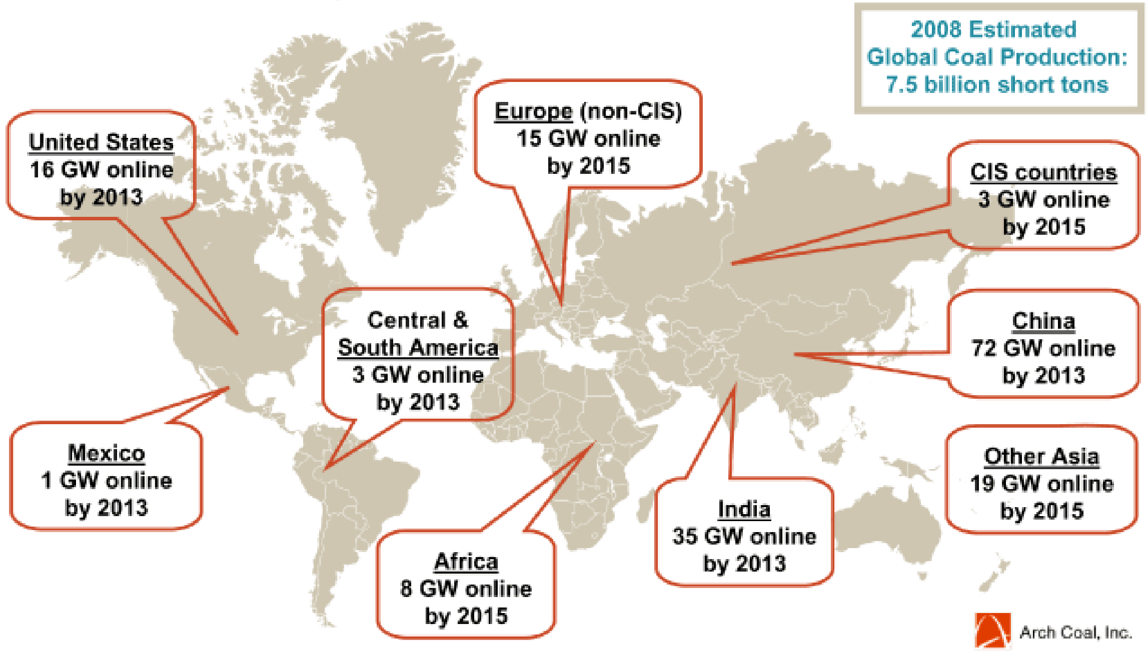
- Average utilization for the U.S. coal generation fleet continues to climb
- Plants have demonstrated the ability to operate at an 80% level in summer
  - Achieving 80% utilization equates to an incremental 80 million tons annually

- Build-out of 16 GW through 2012 equates to 55 million tons of new annual coal demand
- PRB will likely service roughly half of this demand

Arch Coal, Inc.

Source: Platts, EIA and ACI

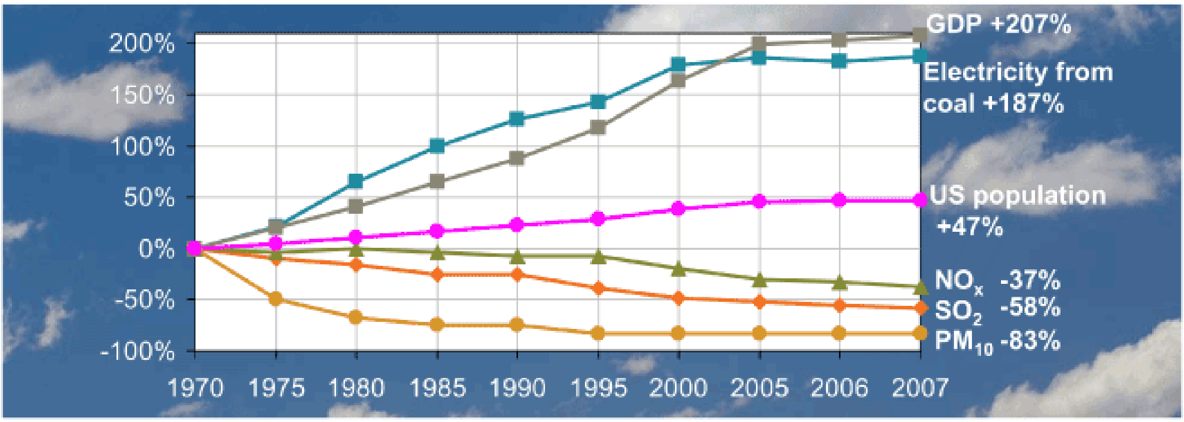
Around the world, countries are building coal plants to fuel electricity needs



Source: ACI and Platts International, estimates based on plants currently under construction

PROGRESSIVE RESPONSIBLE VITAL GROWING

Since 1970, coal has been used in increasingly clean ways in the United States



- Higher efficiency rates and **carbon capture technologies** create opportunities for reducing carbon intensity as well

Arch Coal, Inc.

NO_x (Nitrogen Oxide), SO_2 (Sulfur Dioxide), PM10 (Particulate Matter)

Leaders around the world increasingly recognize the importance of clean coal technologies

"The vast majority of new power stations in China and India will be coal-fired; not 'may be coal-fired'; will be. So developing carbon capture and storage technology is not optional, it is literally of the essence."

Tony Blair (June 2008)

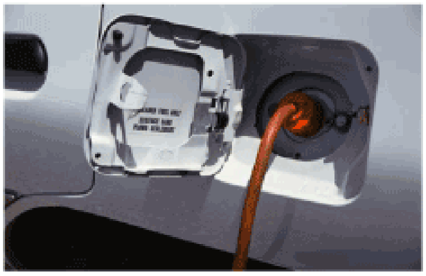
"To the extent … that we can sequester carbon, capture greenhouse gases before they're emitted into the atmosphere, that's going to be good for everybody. Because if we don't, then we're going to have a ceiling at some point in terms of our ability to expand our economies and maintain the standard of living …"

U.S. President Obama (2/18/09)

Source: ACI, public sources

U.S. economic stimulus package to fund coal advancements

- $3.4 billion for fossil fuels
  - $1.0 billion for R&D
  - $800 million for Clean Coal Power Initiative
  - $1.5 billion for industrial CCS demos
- Plus:
  - Carbon storage tax credits
  - $11 billion for transmission upgrades could benefit coal-based generation
  - Support for electric car R&D could lead to additional electricity demand growth



Arch Coal, Inc.

Arch is funding university research projects dedicated to advancing clean coal technologies

The goal of the Consortium for Clean Coal Utilization at Washington University in St. Louis is to bring university researchers, industries, foundations and government organizations together to research clean coal technology.

The Clean Coal Technology Center at the University of Wyoming's School of Energy Resources is dedicated to advancing coal utilization research as well as school programs geared towards energy-related careers.

PROGRESSIVE RESPONSIBLE VITAL GROWING

We will continue funding company and industry campaigns to increase support of coal

- **American Coalition for Clean Coal Electricity (ACCCE)**
  - High profile campaign with national scope
  - Currently running ads with President Obama's support of clean coal technology
  - Research shows coal's approval rating increased from 50% to 72% so far
- **National Mining Association (NMA)**
  - Focused within "beltway" of D.C.
  - Print ads focus on coal is American and carbon capture and storage
- **Arch Coal's 2009 initiatives**
  - Corporate social responsibility report
  - Interactive component to archcoal.com that includes web video

Arch Coal, Inc.

Arch's future growth avenues are compelling long term

Strategic Growth

Consider acquisitions or other investments that strategically fit and create value

Organic Growth

Invest in core businesses to enhance profit growth and return on capital, evaluate opportunities to further upgrade and expand reserve base

Shareholder Returns

Market Expansion

Consider investments to expand market for coal (and improve coal's value proposition) through Btu-conversion and other advanced coal technologies

Capital Structure Enhancement

Maintain strong balance sheet, and consider other vehicles for value creation, such as share repurchases or dividend increases, when advantageous

Arch Coal, Inc.

Source: ACI

EBITDA Reconciliation Chart

Included in the accompanying presentation, we have presented certain non-GAAP measures as defined by Regulation G. The following reconciles these items to net income as reported under GAAP.

	Year Ended December 31,		
	2006	2007	2008
(in $000s)			
Net income	$ 260,931	$ 174,929	$ 354,330
Income tax (benefit) expense	7,650	(19,850)	41,774
Interest expense, net	60,639	72,265	64,285
Depreciation, depletion and amortization	208,354	242,062	292,848
Expenses from early debt extinguishment and other non-operating	7,447	2,273	-
Adjusted EBITDA	$ 545,021	$ 471,679	$ 753,237

EBITDA Reconciliation Chart

Included in the accompanying presentation, we have presented certain non-GAAP measures as defined by Regulation G. The following reconciles these items to net income as reported under GAAP.

Adjusted EBITDA is defined as net income before the effect of net interest expense; income taxes; our depreciation, depletion and amortization; expenses resulting from early extinguishment of debt; and other non-operating expenses.

Adjusted EBITDA is not a measure of financial performance in accordance with generally accepted accounting principles, and items excluded to calculate Adjusted EBITDA are significant in understanding and assessing our financial condition. Therefore, Adjusted EBITDA should not be considered in isolation nor as an alternative to net income, income from operations, cash flows from operations or as a measure of our profitability, liquidity or performance under generally accepted accounting principles. We believe that Adjusted EBITDA presents a useful measure of our ability to service and incur debt based on ongoing operations. Furthermore, analogous measures are used by industry analysts to evaluate operating performance. Investors should be aware that our presentation of Adjusted EBITDA may not be comparable to similarly titled measures used by other companies. The table below shows how we calculate Adjusted EBITDA.

Reconciliation of pro forma Adjusted EBITDA to Income from operations for Jacobs Ranch for the 12 months ended December 31, 2009

	Targeted Results Year Ended December 31, 2009	
	Low	High
	(Unaudited)	
Income from operations	$ 60,000	$ 70,000
Depreciation, depletion and amortization	85,000	95,000
Adjusted EBITDA	$ 145,000	$ 165,000

Source: ACI