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 28, 2011 (April 28, 2011)

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 28, 2011, Steven F. Leer, Chairman and Chief Executive Officer of Arch Coal, Inc. (the "Company"), will deliver a presentation at the Company's 2011 annual stockholders' meeting. The slides from the presentation are attached as Exhibit 99.1 hereto and are hereby incorporated by reference.

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 2011 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 28, 2011

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 2011 annual stockholders’ meeting.

Exhibit 99.1


THE POWER WITHIN
Annual Shareholder Meeting
STEVEN F. LEER
Chairman and CEO
Arch Coal, Inc.
St. Louis | April 28, 2011
Arch Coal, Inc.

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 and Adjusted Earnings Per Share. 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.

In 2010, we set new records and made further progress toward our company vision

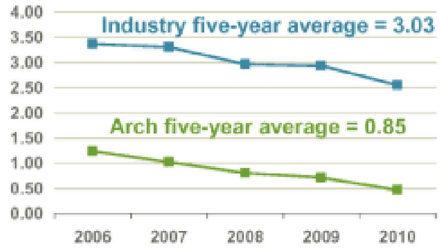
- Best **safety** rates for lost-time and total incidents
  - Five operations completed 2010 without a lost-time incident
  - Earned nine national and state awards for safety excellence
- Strong **financial** performance in key metrics
  - ACI achieved record revenues in 2010
  - ACI achieved record cash flow from operations in 2010
  - ACI reported second highest EBITDA and operating income in 2010
- Best **environmental** compliance
  - Improved SMCRA compliance by 45% over 2009
  - 11 subsidiary mines and facilities achieved zero SMCRA violations
  - Coal-Mac earned U.S. Dept. of Interior National Award for Excellence

Arch is a steadfast industry leader in workplace safety and environmental compliance

- Record **safety** lost-time and total incident rates in 2010
  - Earned nine national and state awards for safety excellence
- Record **environmental** compliance rate in 2010
  - Earned **seven** national or state awards for excellence in environmental practices
- Last year, **two** mining complexes achieved ***A Perfect Zero*** – zero reportable injuries and zero environmental violations

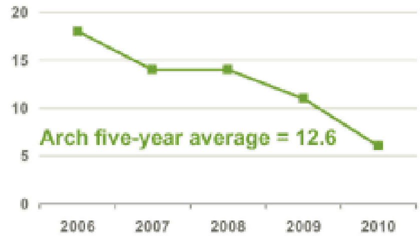
Lost-Time Safety Incident Rate

(per 200,000 employee-hours worked)



Environmental Compliance

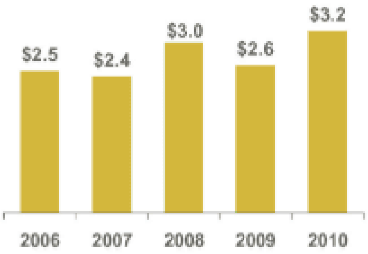
(SMCRA violations based on state reports)



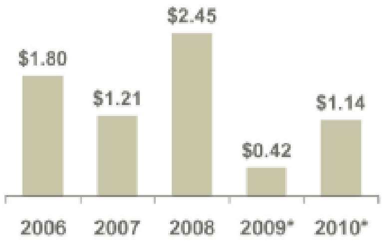
Sources: ACI, MSHA, State environmental agencies

Arch achieved solid results in 2010 in a recovering coal market

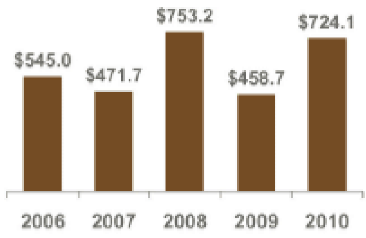
Revenues
(in $ billions)



Earnings Per Share*
(per diluted share)



EBITDA*
(in $ millions)



* Adjusted non-GAAP measure, see reconciliation at end of presentation

ACI stock has outperformed the broader market

- After a very strong performance in 2010, Arch stock has retraced a modest 6% year-to-date in 2011
- During the past decade, Arch Coal stock had a total return to shareholders of **453%** compared with 15% for the S&P 500

Source: Google Finance

Today's dividend increase underscores our board's confidence in Arch's future prospects

ACI Quarterly Dividend

(common stock dividend per share on June payable date)

- Today's announcement reflects a **10%** increase
- Regular **increases** in quarterly dividend convey board's **continued confidence** in Arch's future earnings potential
- 2011 marks Arch's **sixth dividend increase** in eight years

Arch delivers strong first quarter 2011 results

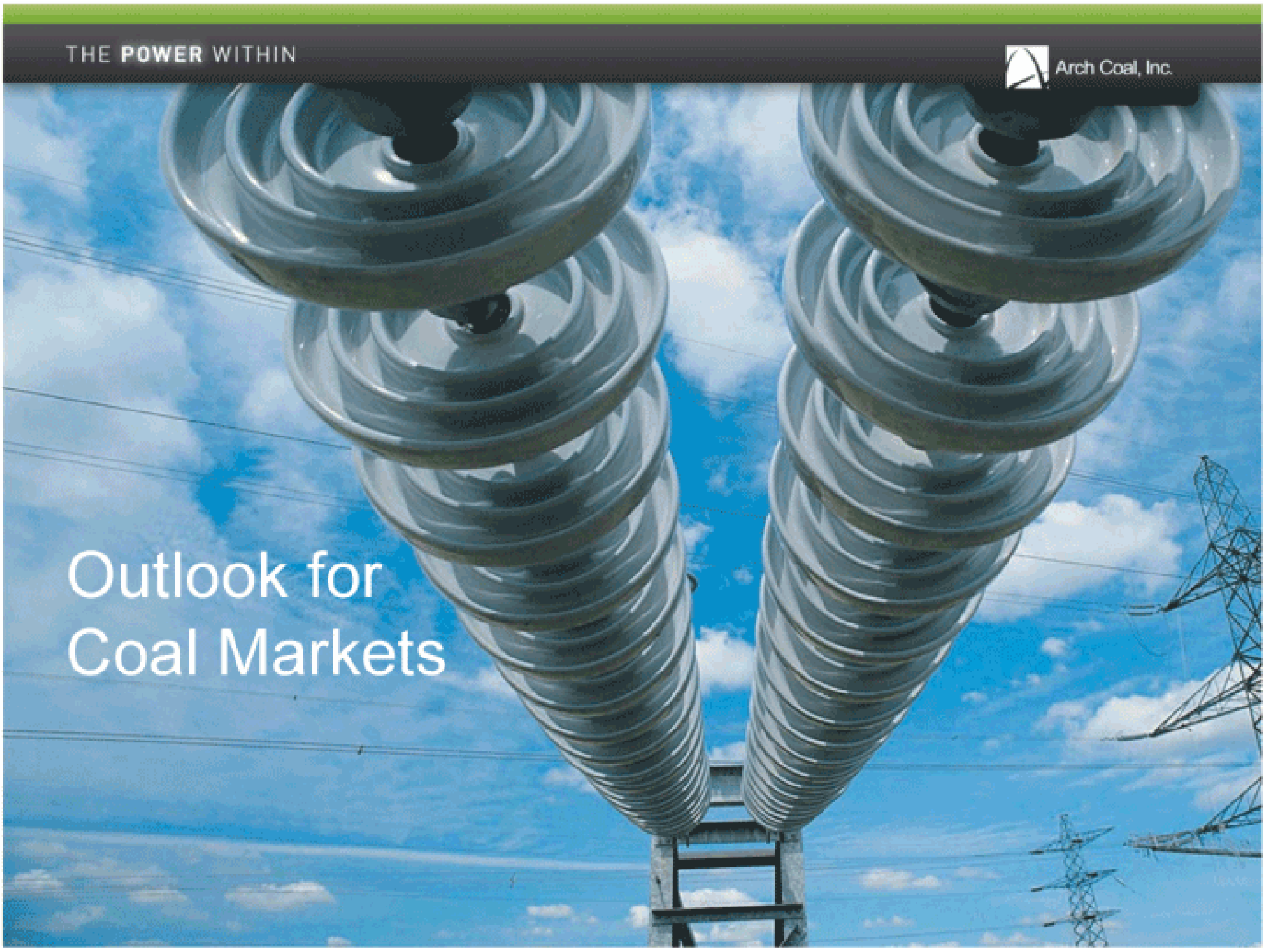
Revenues
(in $ millions)

Earnings Per Share*
(per diluted share)

EBITDA*
(in $ millions)

- **Meaningful expansion** in revenues, earnings per share and adjusted EBITDA over prior-year period
  - Earnings per share increased substantially
  - EBITDA increased 46%
  - Revenues increased 23%

* Adjusted non-GAAP measure, see reconciliation at end of presentation


THE POWER WITHIN
Arch Coal, Inc.
Outlook for
Coal Markets

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

New Coal-Fueled Generation Coming Online by 2015

(Capacity under construction, in GW, from 2011-2015)

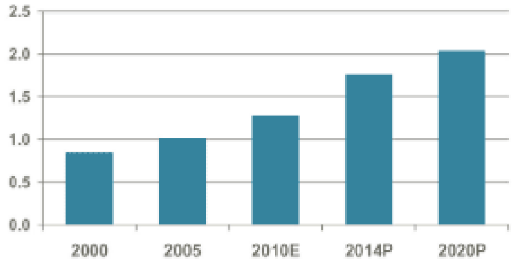
Under Construction	249 GW 790 million tons
Total	425 GW 1.4 billion tons

425 GW of total coal-fueled capacity is planned to be online by 2015 … and will be fueled by 1.4 billion tons of coal

Sources: ACI and Platts International, estimates based on plants currently under construction or planned

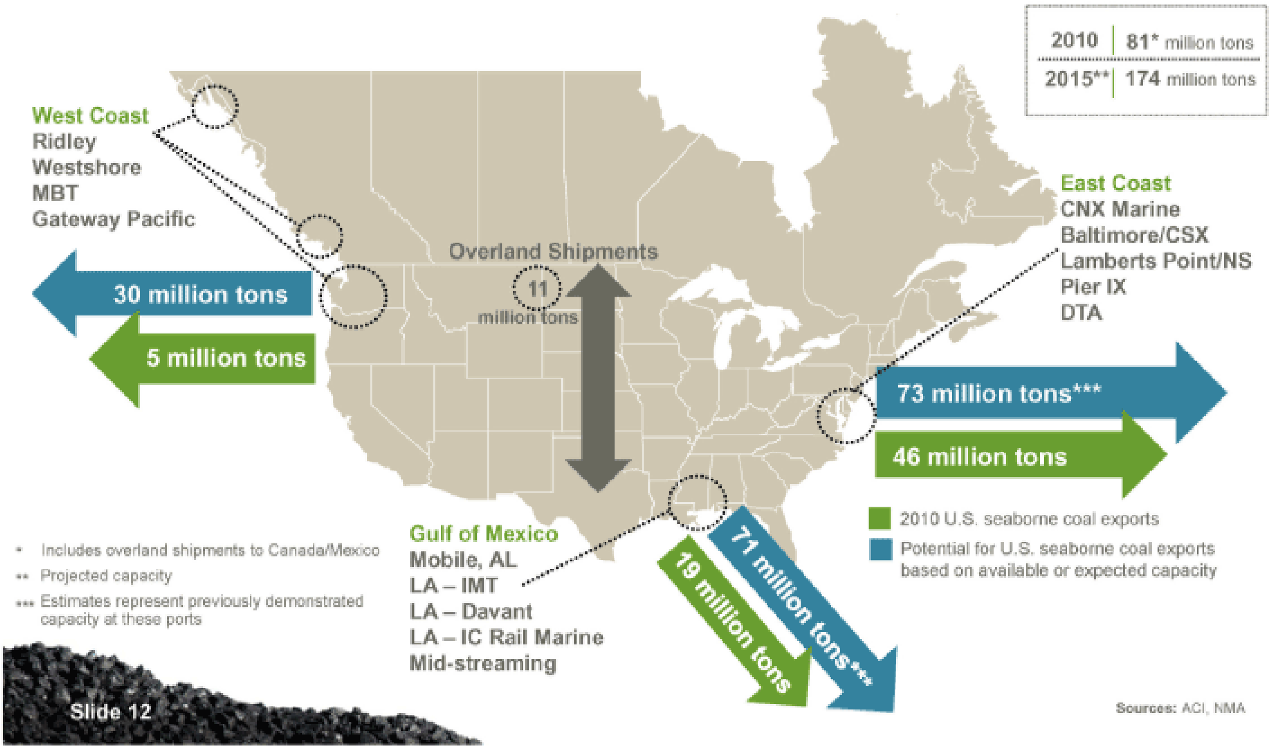
Metallurgical coal demand remains strong

- **Strong met coal fundamentals** supported by global economic recovery and Asian steel demand
  - China has become a net importer of steam and met coal
  - Asia is expected to drive met coal demand growth going forward
- **Production** and **transportation infrastructure issues** as well as a **lack of accessible, quality met coal** deposits will continue to constrain met coal supply – a key input for steel



Source: World Steel Association

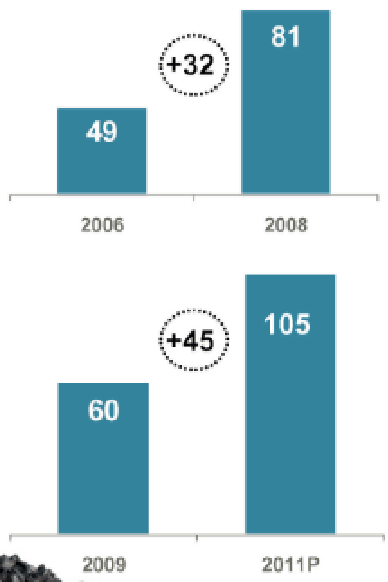
Industry wide, we expect the United States to play a growing role in the global seaborne coal trade



Even modest increases in export activity can have significant market implications

Increase in U.S. Coal Exports

(2006 to 2008 versus 2009 to 2011P, in million tons)

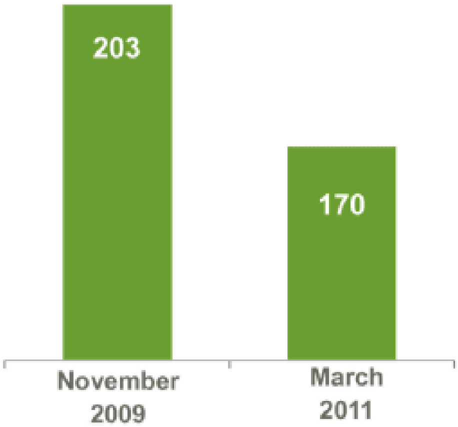


- Arguably the **most significant driver** in the 2008 market run-up was a 32-million-ton increase in U.S. exports from 2006 to 2008
- U.S. exports appear to be in the midst of an **even greater expansion** at present
- The market implications of such an increase could prove **dramatic**

Sources: NMA and ACI

Though somewhat mixed, key market drivers should lead to further coal stockpile reductions in 2011

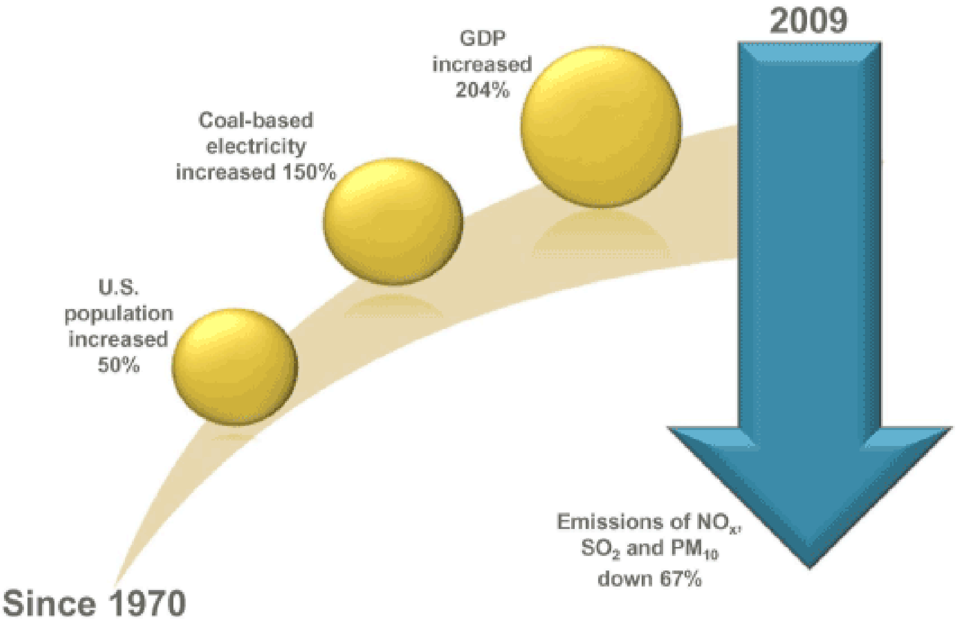
U.S. Generator Coal Stockpiles
(in millions of tons)



- **Significant increases** in U.S. exports – along with declining imports – should **benefit** domestic coal markets
- Stronger economic growth likely to be offset by more normal (milder) weather and higher contributions from other fuels – including hydro and natural gas
- In aggregate, key drivers point to a **strengthening domestic market** as the year proceeds

Sources: EIA, EVA and ACI

Coal is increasingly clean…and can address CO_2 concerns as well with time and funding



Sources: NMA, EPA, EIA

NO_x (Nitrogen Oxide), SO_2 (Sulfur Dioxide), PM_{10} (Particulate Matter)

Arch has dedicated $50+ million to date to advance U.S. clean coal technologies

University, public and private research and development

1. **Department of Energy** | National Carbon Capture Center
2. **Washington University** | Consortium for Clean Coal Utilization
3. **University of Wyoming** | School of Energy Resources

Clean coal technology projects

4. **DKRW** | Mine-Mouth Coal-to-Liquids Facility
5. **ADA** | Environmental Solutions
6. **Tenaska, Inc.** | Trailblazer Energy Center

With oil prices above $100 and gasoline around $4/gallon, the prospects for CTL continue to strengthen

- Arch owns an equity interest in **DKRW Advanced Fuels**
- Proposed 21,000 bpd facility will primarily **provide gasoline** to western markets
- In addition, Medicine Bow will **capture CO_2** for enhanced oil recovery
- CTL can have a **positive impact** on the U.S. economy, security and environment

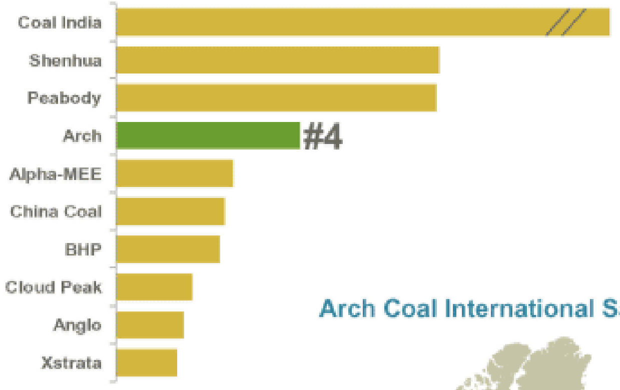
Source: DKRW / Artist's rendering of future Medicine Bow plant


THE POWER WITHIN
Arch Coal, Inc.
Outlook for Arch Coal

We're one of the world's largest coal producers

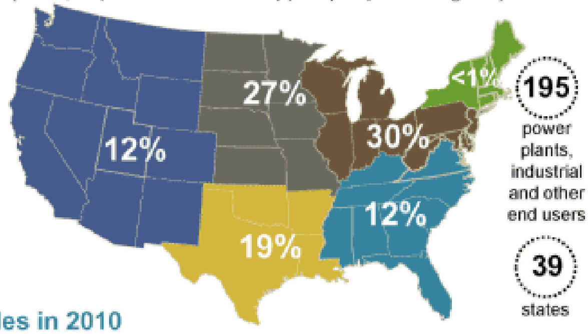
Top 10 Coal Producers in the World

(annual tons sold, based on company reports)



Arch Coal Domestic Sales

(2010, in percent of tons shipped per power region)*



Arch Coal International Sales in 2010

Source: Public Data

* May not tie due to rounding

Arch has growing access to seaborne coal markets

East Coast

- Own 22% interest in DTA in Newport News, VA
- DTA has throughput capacity of ~20 million tpy
- Expect met sales of 7.5 million tpy in 2011
- Seaborne steam sales expected to grow
- Access to other East Coast terminals

Gulf Coast
(New Orleans)

- Ownership and throughput rights at river facilities in Kentucky and Illinois
- Flexibility to ship and blend coals from all of our regions (incl. Illinois Basin coal with our 49% stake in Knight Hawk) to overseas markets

West Coast

- Secured 38% interest in Millennium Bulk Terminals in Washington state
- Agreement with Ridley Terminal in Canada
- Amassed reserves in Montana, which has a transportation cost advantage to West Coast

Arch expects to export roughly 7 million tons in 2011

We've positioned Arch well to capitalize on this market cycle

#2 Producer in Powder River Basin

- Unpriced volumes provide leverage to rising market
- Jacobs Ranch acquisition further strengthened world-class assets
- Unused capacity at Black Thunder could be brought back with limited capital

#1 Producer in Western Bit Region

- Roll off of legacy contracts provides margin opportunity
- Cost structure increasing, but large longwall mines mitigate pressure
- Supply in region is challenged to grow due to difficult geology and reserve depletion

#3 Producer in Central Appalachia

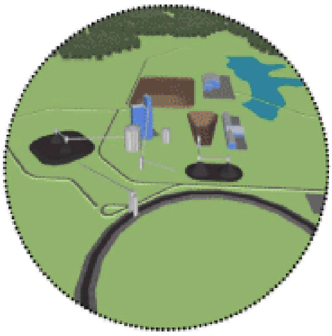
- Met coal production is significant and under-appreciated
- Low-cost position provides flexibility to move in/out of steam market as needed
- Productive capacity of up to 15 million tons remains intact

We have a pipeline of organic growth projects to bring online as market conditions warrant

Central Appalachia

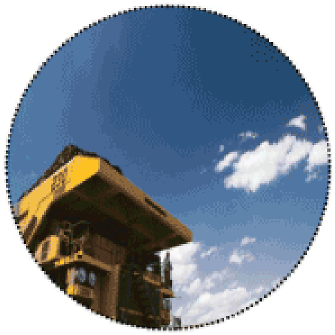
Cumberland River

Illinois Basin



Lost Prairie

Powder River Basin

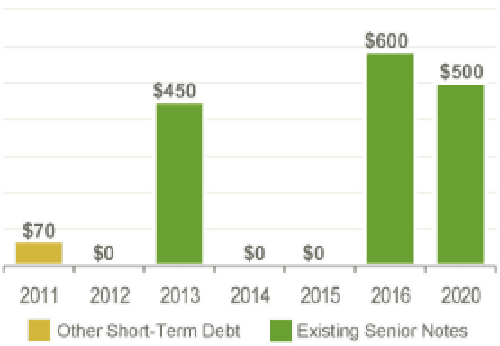


Otter Creek

Arch maintains one of the strongest and cleanest balance sheets in the U.S. coal industry

Debt Maturity Profile (1)

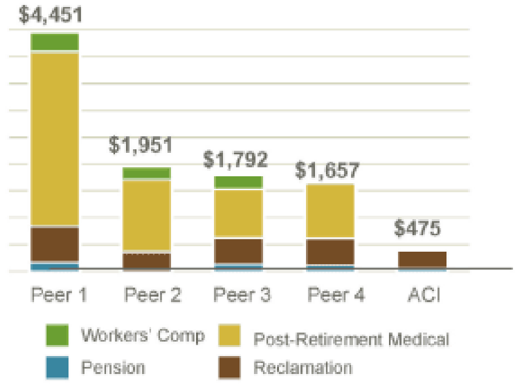
(at 3/31/11, in $ millions)



- Financing initiatives over the past two years have enhanced **liquidity** and extended **debt** maturities
- Available liquidity exceeds **$1.0 billion** (2)

Legacy Liabilities of Largest U.S. Coal Companies

(at 12/31/10 pro forma, in $ millions)



- **Low level** of legacy liabilities versus largest U.S. coal companies
- More than 70% of Arch's legacy liabilities are comprised of reclamation liabilities

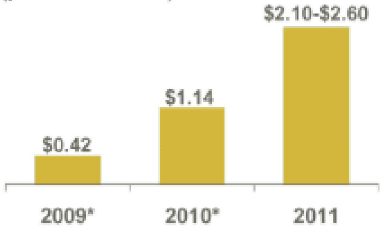
Sources: ACI and SEC filings

(1) Values for senior notes represent contractual maturities

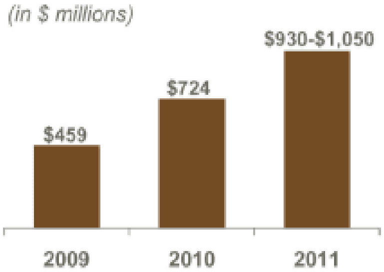
(2) Represents cash on hand as well as unused available borrowing capacity under ACI's revolving credit facility, accounts receivable securitization program and commercial paper placement program

Arch expects to generate record earnings in 2011

Earnings Per Share*
(per diluted share)



EBITDA*
(in $ millions)

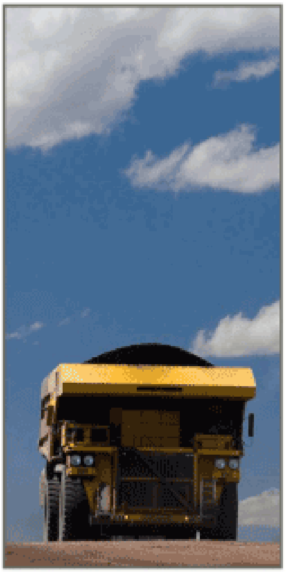


- In 2011, we expect to generate **stronger earnings** per share and EBITDA thanks to further improvement in coal markets
- We will continue to execute a **market-driven approach**
- We will maintain **rigorous capital** and **cost control**
- First quarter results suggest that we're on track
  - **Revenues grew** nearly 23 percent in 1Q11 versus 1Q10
  - EBITDA increased 46 percent

* Adjusted non-GAAP measure, see reconciliation at end of presentation

Arch's leadership position in the coal industry will drive future value creation

- One of the world's **largest** and **most efficient** coal producers
  - Represent **15 percent** of the U.S. coal supply
  - National, diverse reserve base, skewed heavily towards growth regions
  - #1 in **safety** and **environmental** performance among peer group
  - Ship coal to domestic/international steel manufacturers and international power producers
- **Arch's value proposition** is anchored by …
  - Leading position in three major low-sulfur coal basins
  - Significant exposure to metallurgical markets
  - Targeting long-term growth in the international markets
  - Advancing greenfield projects in Illinois and Montana
  - Disciplined financial management, capital allocation




THE POWER WITHIN
Annual Shareholder Meeting
STEVEN F. LEER
Chairman and CEO
Arch Coal, Inc.
St. Louis | April 28, 2011
Arch Coal, Inc.

Non-GAAP Measures Reconciliation Chart

Included in the accompanying presentation, we have presented adjusted earnings per share, which is considered a non-GAAP measure as defined by Regulation G. The following reconciles adjusted earnings per share to the nearest GAAP measurement.

Adjusted net income and adjusted diluted earnings per common share are adjusted for the after-tax impact of acquisition and financing related costs and are not measures of financial performance in accordance with generally accepted accounting principles. We believe that adjusted net income and adjusted diluted earnings per common share better reflect the trend of our future results by excluding items relating to significant transactions. The adjustments made to arrive at these measures are significant in understanding and assessing our financial condition. Therefore, adjusted net income and adjusted diluted earnings per share should not be considered in isolation, nor as an alternative to net income or diluted earnings per common share under generally accepted accounting principles. The table below shows how we calculate Adjusted earnings per share.

Adjusted net income and adjusted diluted earnings per common share

	Three Months Ended March 31, 2010	Three Months Ended March 31, 2011
Net income (loss) attributable to Arch Coal	$ (1,796)	$ 55,601
Amortization of acquired sales contracts, net	10,753	5,944
Tax impact of adjustments	(3,925)	(2,170)
Adjusted net income attributable to Arch Coal	$ 5,032	$ 59,375
Diluted weighted average shares outstanding	162,372	163,773
Diluted earnings per share	$ (0.01)	$ 0.34
Amortization of acquired sales contracts, net	$ 0.06	$ 0.03
Tax impact of adjustments	$ (0.02)	$ (0.01)
Adjusted diluted earnings per share	$ 0.03	$ 0.36

	Year Ended December 31,			
	2009	2010	2011 Range	
			Low	High
Net income attributable to Arch Coal	$ 42,169	$ 158,857	$ 331,000	$ 412,000
Amortization of acquired sales contracts, net	19,623	35,606	19,000	21,000
Loss on early extinguishment of debt	-	6,776	-	-
Costs related to acquisition of Jacobs Ranch	13,726	-	-	-
Tax impact of adjustments	(12,172)	(15,469)	(6,935)	(7,665)
Adjusted net income attributable to Arch Coal	$ 63,346	$ 185,770	$ 343,065	$ 425,335
Diluted weighted average shares outstanding	151,272	163,210	163,450	163,450
Diluted earnings per share	$ 0.28	$ 0.97	$ 2.03	$ 2.52
Amortization of acquired sales contracts, net	0.13	0.22	0.11	0.13
Costs related to acquisition of Jacobs Ranch	0.09	-	-	-
Loss on early extinguishment of debt	-	0.04	-	-
Tax impact of adjustments	(0.08)	(0.09)	(0.04)	(0.05)
Adjusted diluted earnings per share	$ 0.42	$ 1.14	$ 2.10	$ 2.60

Non-GAAP Measures Reconciliation Chart

Included in the accompanying presentation, we have presented Adjusted EBITDA, which is considered a non-GAAP measure as defined by Regulation G. The following reconciles Adjusted EBITDA to the nearest GAAP measurement

Adjusted EBITDA is defined as net income attributable to the Company before the effect of net interest expense, income taxes, depreciation, depletion and amortization and the amortization of acquired sales contracts. Adjusted EBITDA may also be adjusted for items that may not reflect the trend of future results.

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. In addition, acquisition and financing related expenses are excluded to make results more comparal between periods. 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.

Adjusted EBITDA

	Year Ended December 31,						
	2006	2007	2008	2009	2010	2011 Range	
						Low	High
Net income	$ 262,358	$ 175,943	$ 355,211	$ 42,179	$ 159,394	$ 331,000	$ 412,000
Net income attributable to noncontrolling interest	(1,427)	(1,014)	(881)	(10)	(537)	-	-
Income tax expense (benefit)	7,650	(19,850)	41,774	(16,775)	17,714	68,000	97,000
Interest expense, net	60,639	72,265	64,285	98,310	140,100	136,000	134,000
Depreciation, depletion and amortization	219,096	243,695	293,553	301,608	365,066	376,000	386,000
Amortization of acquired sales contracts, net	(10,742)	(1,633)	(705)	19,623	35,606	19,000	21,000
Costs related to acquisition of Jacobs Ranch	-	-	-	13,726	-	-	-
Other non-operating expense	7,447	2,273	-	-	6,776	-	-
Adjusted EBITDA	$ 545,021	$ 471,679	$ 753,237	$ 458,661	$ 724,119	$ 930,000	$ 1,050,000

Non-GAAP Measures Reconciliation Chart

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Adjusted EBITDA

	Three Months Ended March 31, 2010	Three Months Ended March 31, 2011
Net income (loss)	$ (1,770)	$ 55,874
Income tax expense (benefit)	(775)	12,530
Interest expense, net	34,745	33,834
Depreciation, depletion and amortization	88,519	83,537
Amortization of acquired sales contracts, net	10,753	5,944
Net income attributable to noncontrolling interest	(26)	(273)
Adjusted EBITDA	$ 131,446	$ 191,446