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): August 9, 2011 (August 9, 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 August 9, 2011, John Drexler, Senior Vice President and Chief Financial Officer of Arch Coal, Inc. (the “Company”), will deliver a presentation at the Jefferies 2011 Global Industrial and A&D Conference. The slides from the presentation are attached as Exhibit 99.1 hereto and are hereby incorporated by reference.

The information contained in Item 7.01 and the exhibits attached hereto shall not be deemed “filed” for purposes of Section 18 of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), or otherwise subject to the liabilities of that section, nor shall they be deemed incorporated by reference in any filing under the Securities Act of 1933, as amended (the “Securities Act”) or the Exchange Act, except as shall be expressly set forth by specific reference in such a filing.

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 Jefferies 2011 Global Industrial and A&D 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: August 9, 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 Jefferies 2011 Global Industrial and A&D Conference.

Exhibit 99.1


THE POWER WITHIN
Jefferies 2011 Global Industrial and A&D Conference
JOHN DREXLER
Senior VP and CFO
Arch Coal, Inc.
Arch Coal, Inc.
New York | 08.09.2011

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 (including the ICG business); 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.

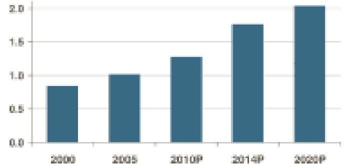
This presentation includes certain non-GAAP financial measures, including Free Cash Flow. These non-GAAP financial measures are not measures of financial performance in accordance with generally accepted accounting principles and may exclude items that are significant in understanding and assessing our 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. Please see the reconciliation included at the end of this presentation.


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

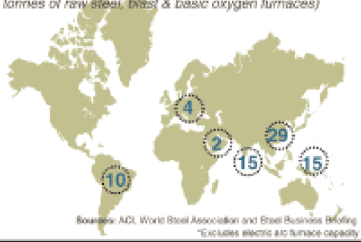
We expect continued strength in met coal markets – based on projected growth in steel consumption globally

- Growth in world steel consumption is projected to increase approximately **60 percent** during the next decade
- Met coal demand growth will come from increased utilization at existing steel plants along with a **build out of new steel capacity**
  - Asia-Pacific market is leading the steel capacity build out
  - Robust growth is also projected in Atlantic Basin market (Brazil, Eastern Europe)

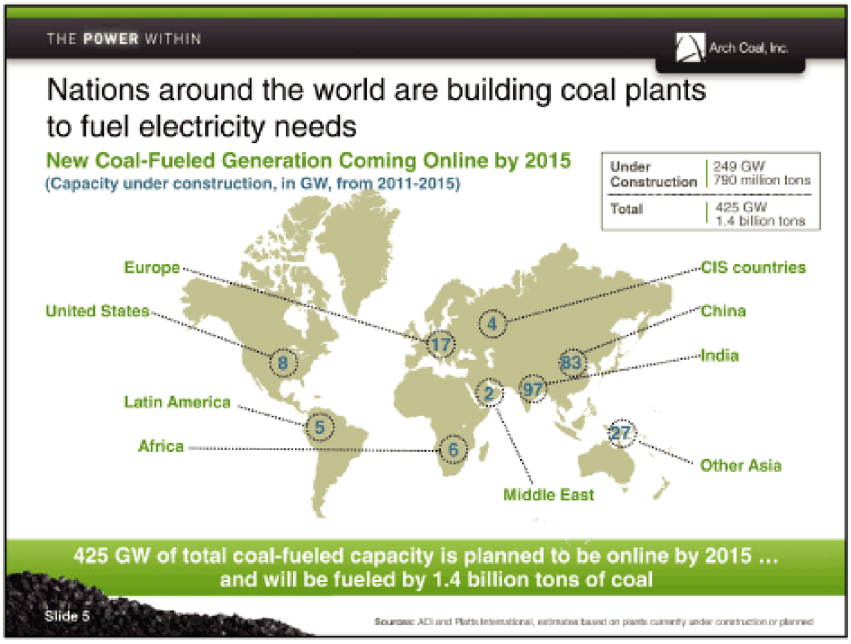
Total Growth in World Steel Consumption
(in billions of tonnes of finished steel)



Iron & Steel Capacity Build Out* Through 2015
(in tonnes of raw steel, blast & basic oxygen furnaces)

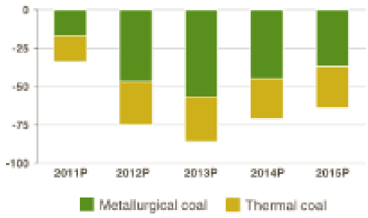


Sources: ACI, World Steel Association and Steel Business Briefing
*Excludes electric arc furnace capacity


THE POWER WITHIN
Arch Coal, Inc.
Nations around the world 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
Europe 17
CIS countries 4
United States 8
China 83
India 97
Latin America 5
Africa 6
Middle East 2
Other Asia 27
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
Slide 5
Sources: ACI and Platts International, estimates based on plants currently under construction or planned

Growth in seaborne coal demand should outpace growth in seaborne coal supply over the next five years

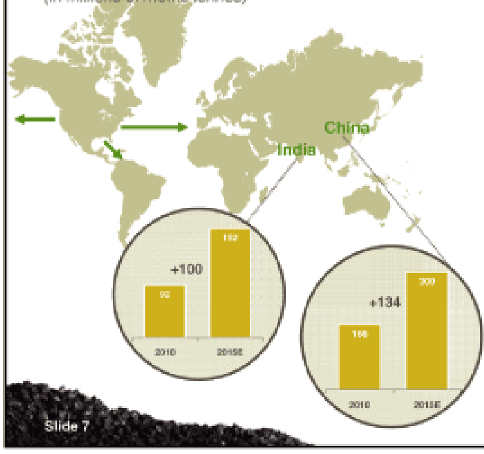
Projected Deficit in Seaborne Coal Supply Trade
(in millions of metric tonnes)



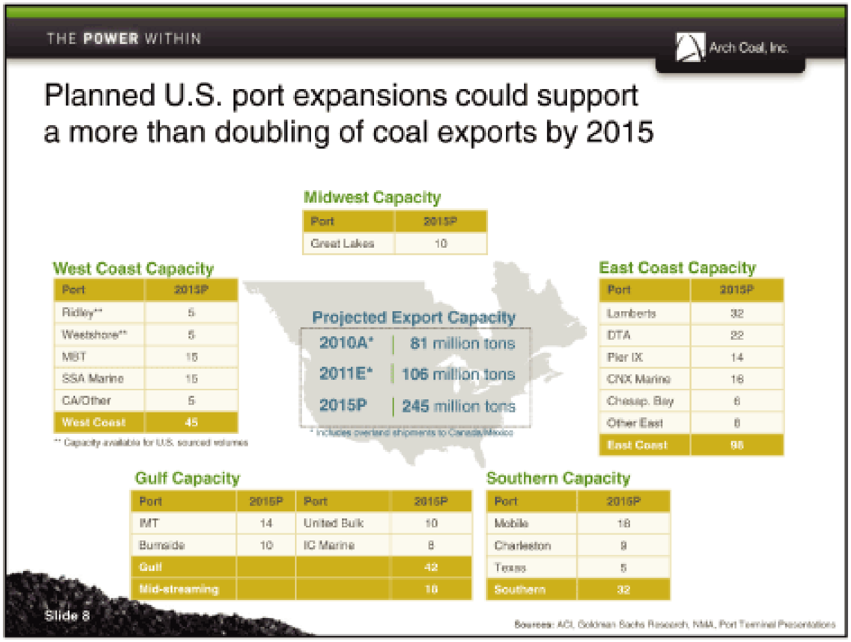
- We project **growing coal consumption worldwide** – and ongoing production and transportation constraints in traditional coal export nations
- Internal forecasts suggest that global seaborne coal markets will be **under-supplied** through at least 2015
  - Cumulative deficit of ~340 million metric tonnes through 2015
  - Roughly 60 percent of projected deficit is in met coal markets; 40 percent relates to thermal coal

Two large developing nations are driving much of the change in global coal supply flow patterns

Expected Increase in Chinese and Indian Imports
(in millions of metric tonnes)



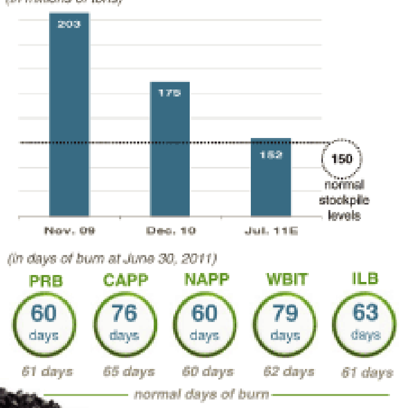
- By 2015, China and India could increase their coal imports **nearly twofold** – to support their rapidly developing economies
- This increase will require a further **shifting** of traditional global coal supply patterns
- The U.S. can become a more **strategic supplier** in seaborne coal markets
  - Major supplier in the Atlantic Basin as South African and Colombian tons migrate to Asia
  - Emerging supplier in the Pacific Rim with the expansion of West Coast infrastructure



THE POWER WITHIN
Arch Coal, Inc.
Planned U.S. port expansions could support a more than doubling of coal exports by 2015
Midwest Capacity
Port | 2015P
Great Lakes | 10
West Coast Capacity
Port | 2015P
Ridley** | 5
Westshore** | 5
MBT | 15
SSA Marine | 15
CA/Other | 5
West Coast | 45
** Capacity available for U.S. sourced volumes
Projected Export Capacity
2010A* | 81 million tons
2011E* | 106 million tons
2015P | 245 million tons
* Includes overland shipments to Canada/Mexico
East Coast Capacity
Port | 2015P
Lamberts | 32
DTA | 22
Pier IX | 14
CNX Marine | 16
Chesap. Bay | 6
Other East | 8
East Coast | 98
Gulf Capacity
Port | 2015P | Port | 2015P
IMT | 14 | United Bulk | 10
Burnside | 10 | IC Marine | 8
Gulf | 42
Mid-streaming | 18
Southern Capacity
Port | 2015P
Mobile | 18
Charleston | 9
Texas | 5
Southern | 32
Slide 8
Sources: ACI, Goldman Sachs Research, NMA, Port Terminal Presentations

On the domestic front, U.S. coal stockpiles are being liquidated – at accelerated rates in some regions

Coal Stockpile Levels at U.S. Power Generators
(in millions of tons)



- U.S. generator **coal stockpiles have declined considerably** since the peak in November 2009
- During the spring shoulder season, **stockpile build was substantially smaller** than in prior years
- **PRB** customer stockpiles are **below target levels** – and rail disruptions from flooding intensified in July
- **NAPP** and **ILB** customer stockpiles are **within normal range** at June 30
- Expected further stockpile reductions support favorable environment for forward curve index prices

Sources: EIA, EVA and ACI

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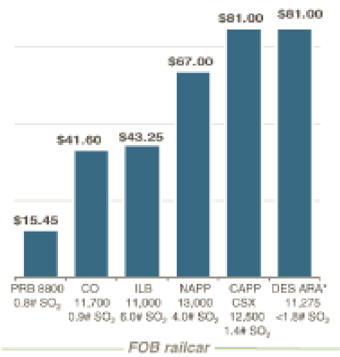
Arch Coal, Inc.

Thermal coal pricing, particularly in the PRB, has improved since shoulder season lows

- The reduction in stockpiles has **improved the domestic coal supply / demand balance**
- A **robust coal export market** should keep domestic coal market fundamentals tight, by **supporting continued U.S. exports** into Europe and Asia
- **PRB prices** for 2012 delivery have moved up **more than 10%** since the shoulder season

Forward Prices for 2012 Delivery

($ per short ton, August 5, 2011)



Sources: Argus Coal Daily, Weekly Physical Market Assessment

* Adjusted for short tons, transportation costs ($14 ocean freight, $30 rail haul) and Btu-differential


THE POWER WITHIN
Arch Coal, Inc.
230
230
The New Arch Coal

We're building a U.S. coal industry powerhouse – and a world-class global and metallurgical coal franchise

1.	**Leading Met Coal Supplier**	2nd largest U.S. (top 10 global) met producer Blending synergies will optimize met franchise Significant reserve expansion opportunities
2.	**Growth Profile**	Boost in reserves to become #2 U.S. coal reserve holder Met coal volumes to grow to 15 million tons by 2015 Build out of thermal platform in new basins and for export
3.	**Market Leverage**	Major producer in under-supplied met markets Highly levered to improving domestic thermal markets Growing player in robust seaborne thermal markets
4.	**Most Diversified U.S. Producer**	Operations in every major supply basin Strategically balanced met/thermal portfolio #1 or #2 position in core operating regions
5.	**Low-Cost Operations**	Low-cost mines in every major domestic supply basin Leader in safety and environmental performance Productive workforce with minimal legacy liabilities
6.	**Compelling Valuation**	Substantial pro forma free cash flow generation Annual synergies of $100-120 million[1] from ICG Multiples at historic lows

Pro forma for ICG acquisition

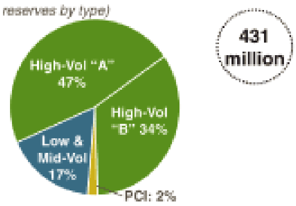
(1) Beginning in 2012

The new Arch has one of the highest-quality met coal reserve bases in the U.S. coal industry

- Arch has a substantial, **high-quality met coal reserve base**
  - Beckley is a **high-quality, low-vol coal** that should trade at near parity with Peak Downs
  - Vindex is a quality, **low-vol** met coal
  - Sentinel is a **high-vol "A"** coal, superior to the Gregory brand
  - Upside in high-vol "A" segment as Tygart Valley comes online
  - Mountain Laurel/Buckhannon compete in the **high-vol "B"** segment, on par with Gregory
  - Lone Mountain is a good **PCI** coal; will move Powell Mountain as PCI (same or similar coal seams)

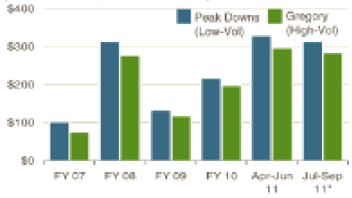
Arch's Pro Forma Met Coal Reserves

(% of met reserves by type)



Metallurgical Coal Benchmark Pricing

($/metric tonne, real 2011 dollars)

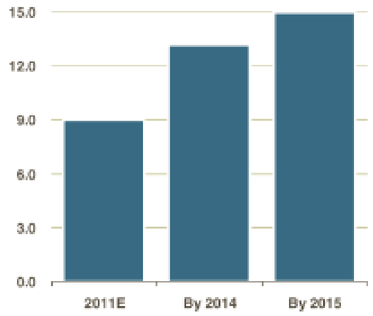


*Estimated price based on Anglo's settlement of German Creek

Sources: AME and ACI

Our "15 by '15" plan – to grow met volumes to at least 15 million tons by 2015 – is well underway

ACI Expected Metallurgical Coal Volumes
(in millions of tons)



- Development of **Tygart Valley No. 1** mine – with longwall production expected in early 2014 – will add 3.5 million tons to our met production profile
  - Targeting development of Tygart Valley No. 2 and No. 3 concurrently
- Engineering and permitting begun on **undeveloped high-vol "A" reserves**
- Upgrades to Beckley and Sentinel preparation plants will **increase efficiencies and yield** of higher-quality met coal
- **Increased PCI sales** from the expanded Lone Mountain complex

With the ICG acquisition, Arch has a strong pipeline of future growth projects

	Met Expansion/Development		Thermal	Other
Recently Completed	Appalachia: Cumberland River		ILB: Knight Hawk Interest	Singapore Business Office
			PRB: Jacobs Ranch	Export (River Dock in Illinois)
				Export (DTA)
Future Growth Projects	Appalachia: Beckley	Appalachia: Tygart Valley #1	ILB: Lost Prairie	Refined Coal (ADA)
	Appalachia: Vindex	Appalachia: Tygart Valley #2	PRB: Leases	Coal-to-Liquids (DKRW)
	Appalachia: Sentinel	Appalachia: Tygart Valley #3	WBIT: Elk Mountain	Export (MBT)
	Appalachia: Lone/Powell Mountain	Appalachia: VA met reserves	Appalachia: Paw-Paw	Enhanced Oil Recovery (Tenaska)
			WBIT: Leases	
			ILB: Macoupin	
			NPRB: Montana	

- Arch remains a **prudent steward of capital**
- We intend to pursue future growth projects that will earn solid returns for shareholders and expand the market for coal, but will do so judiciously

Expansion of existing met complexes* and future development projects
Thermal growth projects
Other coal market expansion efforts

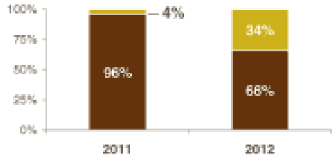
* Incremental production potential, preparation plant efficiencies, additional marketing blends and transportation synergies

THE **POWER** WITHIN

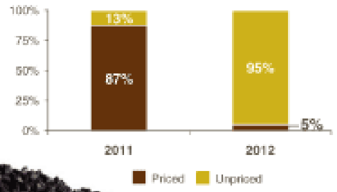
Arch Coal, Inc.

Arch has significant upside to coal markets in future years

Pro Forma Thermal Coal Sales
*(% priced/unpriced)**



Pro Forma Met Coal Sales
*(% priced/unpriced)**



- Forward commitments should improve **Arch's realized prices** for 2012 across all regions, providing future earnings visibility
- Unpriced volumes **provide leverage** to a strong thermal export and improving domestic coal market
- Open met volumes allow Arch to **optimize blending opportunities** to fully realize identified synergies

*Based on ACI volume guidance per the 2Q11 earnings release
Assume flat volume levels in 2012 versus 2011 for Arch and a full year contribution from ICG

THE **POWER** WITHIN

Arch Coal, Inc.

Arch will play a growing role in the global seaborne met and thermal coal trade

East Coast

- Current export capabilities can further liberate ICG's met and thermal production
- Own 22% interest in DTA in Newport News, VA which has throughput capacity of ~20 million tpy

Gulf Coast
(New Orleans)

- Ownership and throughput rights at river facilities in Kentucky and Illinois
- Ability to blend ILB coals with products from every major operating region for sale into the seaborne coal market

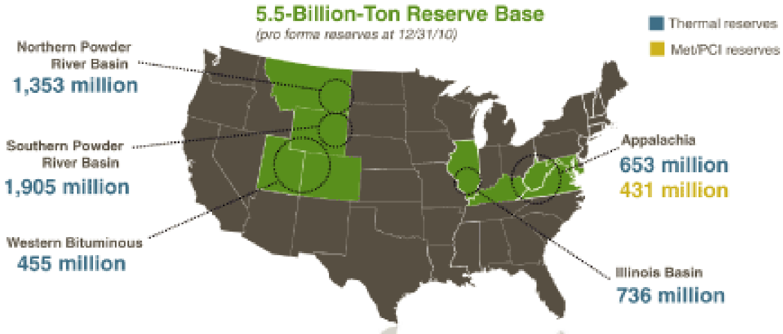
West Coast

- Secured 38% interest in Millennium Bulk Terminals in Washington state
- Agreement with Ridley Terminals in Canada
- Commitments to move Western Bituminous coals through ports in California

THE **POWER** WITHIN

Arch Coal, Inc.

Arch is the most diversified U.S. coal producer, and the No. 2 reserve holder in the nation



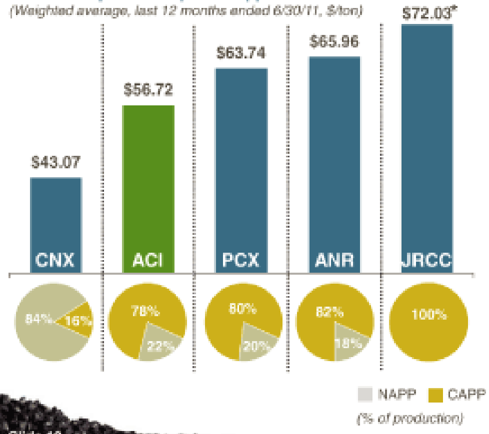
- Operations now extend to every major coal-supply basin
- Portfolio includes wholly owned operations in Illinois and Northern Appalachia
- Control a robust U.S. product slate, with representation in all major segments

THE **POWER** WITHIN

Arch Coal, Inc.

Arch's cash cost structure remains one of the lowest in the Appalachian region

Public Companies' Reported Appalachian Cash Costs
(Weighted average, last 12 months ended 6/30/11, $/ton)



- **Lowest cost producer** among predominantly CAPP operators
- One of the lowest cost producers in the overall Appalachian region
- Combined with ICG, Arch's cost structure remains advantageous – despite continued pressures in the region

Source: SEC filings, MSHA
* JRCC results are LTM as of 3/30/11

THE **POWER** WITHIN

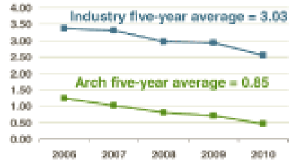
Arch Coal, Inc.

Arch is committed to continuing its industry leading performance in 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 SMCRA environmental violations

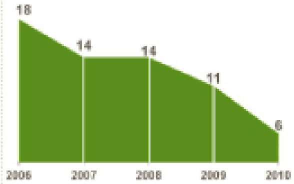
Lost-Time Safety Incident Rate

(per 200,000 employee-hours worked)

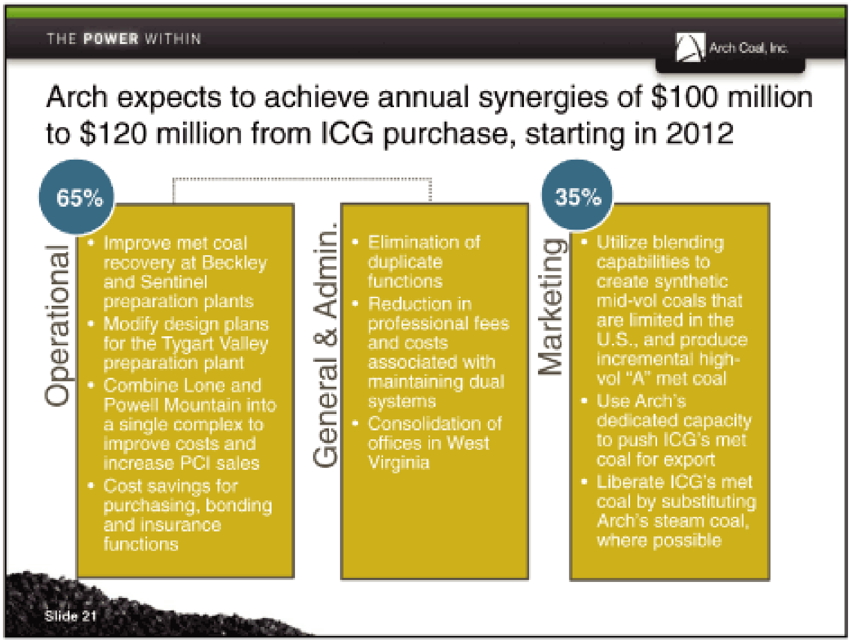


Environmental Compliance

(SMCRA violations based on state reports)



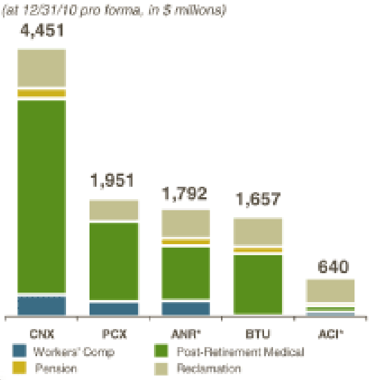
Sources: ACI, MSHA, State environmental agencies



THE POWER WITHIN
Arch Coal, Inc.
Arch expects to achieve annual synergies of $100 million to $120 million from ICG purchase, starting in 2012
65%
Operational
• Improve met coal recovery at Beckley and Sentinel preparation plants
• Modify design plans for the Tygart Valley preparation plant
• Combine Lone and Powell Mountain into a single complex to improve costs and increase PCI sales
• Cost savings for purchasing, bonding and insurance functions
General & Admin.
• Elimination of duplicate functions
• Reduction in professional fees and costs associated with maintaining dual systems
• Consolidation of offices in West Virginia
35%
Marketing
• Utilize blending capabilities to create synthetic mid-vol coals that are limited in the U.S., and produce incremental high-vol "A" met coal
• Use Arch's dedicated capacity to push ICG's met coal for export
• Liberate ICG's met coal by substituting Arch's steam coal, where possible
Slide 21

Post acquisition, Arch continues to maintain one of the cleanest balance sheets in the U.S. coal industry

Legacy Liabilities of Largest U.S. Coal Companies
(at 12/31/10 pro forma, in $ millions)

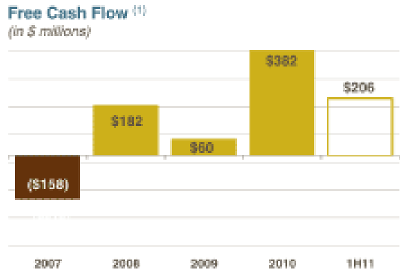


- Lowest level of **legacy liabilities** versus largest public U.S. coal companies
- Approximately two-thirds of Arch's pro forma legacy liabilities consist of reclamation liabilities

Sources: ACI and Public Data
* Pro Forma

Arch remains focused on generating free cash flow

- Arch has actively managed its capital needs over the last three years, generating substantial free cash flow during the full market cycle
- The company generated **record free cash flow** in the **first half of 2011**
- **First priority** for free cash flow will be to **pay down debt** that was incurred to fund the ICG acquisition



(1) Free cash flow is defined and reconciled at end of presentation

Non-GAAP Measures 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 cash flows as reported under GAAP.

Free Cash Flow

Free cash flow is defined as operating cash flows minus capital expenditures and is not a measure of cash flow in accordance with generally accepted accounting principles. We use free cash flow as a measure of our ability to make investments, acquisitions and payments to our debt and equity security holders. Free cash flow should not be considered in isolation, nor as an alternative to cash flows generated from operations.

	Year Ended				Six Months Ended June 30,
	2007	2008	2009	2010	2011
	(In thousands)				
Cash provided by operating activities	$ 330,810	$ 679,137	$ 382,980	$ 697,147	$ 314,200
Capital expenditures	(488,363)	(497,347)	(323,150)	(314,657)	(107,725)
Free cash flow	$ (157,553)	$ 181,790	$ 59,830	$ 382,490	$ 206,475