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 19, 2008 (June 19, 2008)

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:

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))

TABLE OF CONTENTS

Item 7.01 Regulation FD Disclosure Item 9.01 Financial Statements and Exhibits Signatures Exhibit Index Slides from Presentations

Item 7.01 Regulation FD Disclosure.

On June 19, 2008, several senior executive officers of Arch Coal, Inc. (the "Company") will be delivering presentations at the Company's 2008 Analyst Day that will include written communications comprised of slides. The slides from the presentations are attached hereto as Exhibit 99.1 and are hereby incorporated by reference.

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

Item 9.01 Financial Statements and Exhibits.

(d) Exhibits

The following exhibits are attached hereto and furnished herewith.

Exhibit No.

Description

99.1 Slides from the presentations at the Arch Coal, Inc. 2008 Analyst Day.

1

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 19, 2008

Arch Coal, Inc.

By: /s/ Robert G. Jones Robert G. Jones Vice President-Law, General Counsel & Secretary Exhibit Index

Description

99.1 Slides from the presentations at the Arch Coal, Inc. 2008 Analyst Day.





Arch Coal Analyst Mine Tour

Paul Lang Senior Vice President, Operations

Mountain Laurel Complex June 19, 2008

Forward-Looking Information

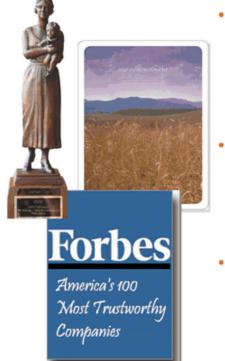
This presentation contains "forward-looking statements" - that is, statements related to future, not past, events. In this context, forward-looking statements often address our expected future business and financial performance, and often contain words such as "expects," "anticipates," "intends," "plans," "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 forwardlooking 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.

Arch Coal, Inc.

OUR VALUE PROPOSITION

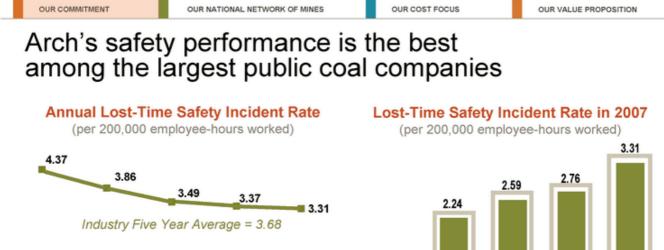
Arch is continuing to enhance our reputation as a responsible energy company

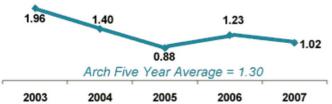


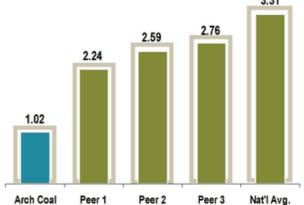
Operating the world's safest coal mines
 Awarded MSHA's Sentinels of Safety honor for

- operating the nation's safest underground coal mines in 2006 and 2007
- Ranked first among coal industry peers for safety performance last year
- Acting as responsible citizens and good environmental stewards
 - Inaugural 2007 social responsibility report elevates awareness of Arch's environmental programs
 - Earned 3 National Good Neighbor Awards in 4 years
- Achieving superior financial performance
 - Forbes recognized Arch as one of the 100 most trustworthy U.S. companies of 2008
 - Expect 2008 to be a record earnings year for Arch
 Arch Coal, Inc.

Source: ACI, Forbes

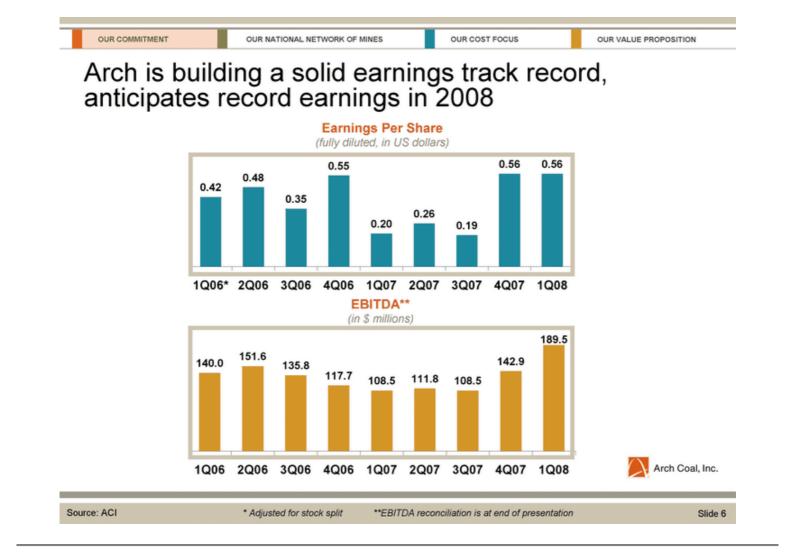


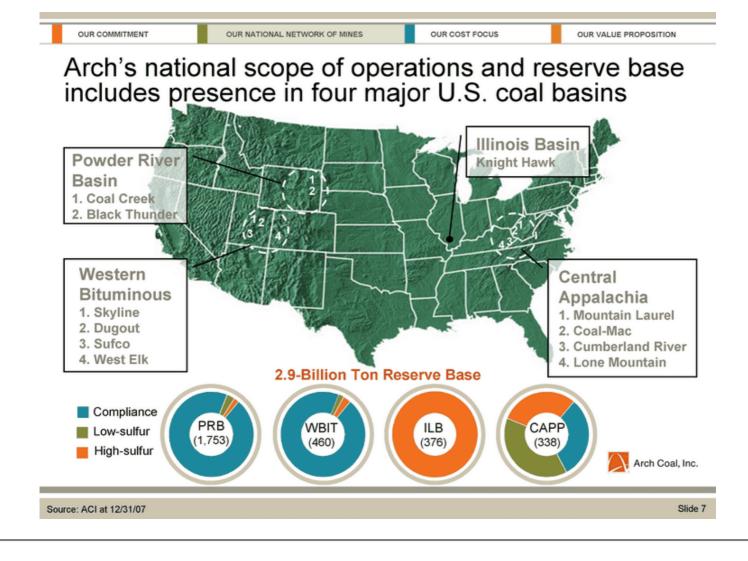


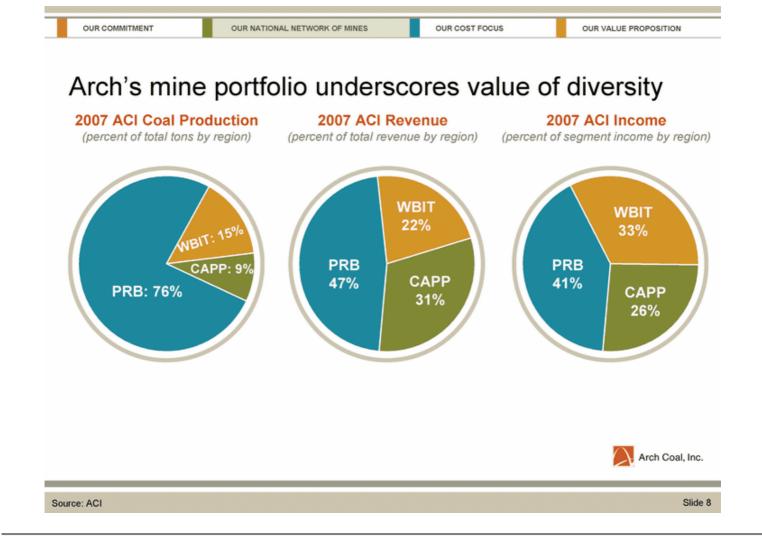


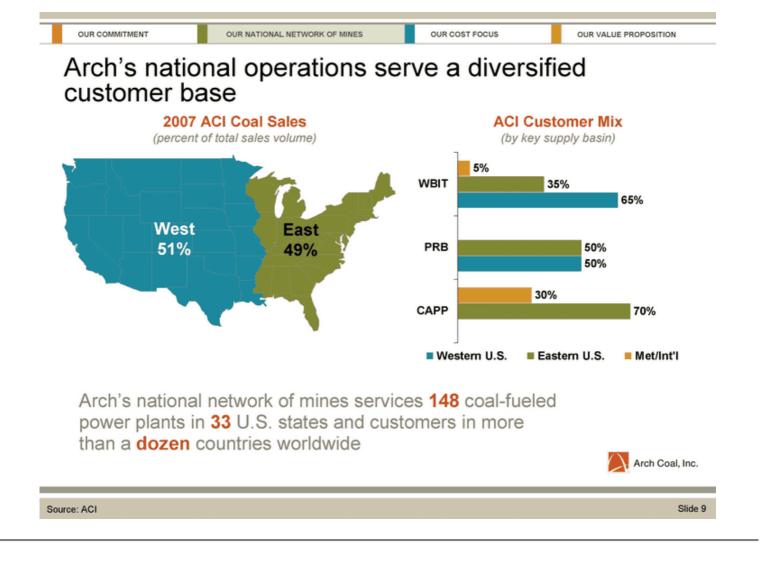
Sources: ACI & MSHA

OUR COMMITMENT	OUR NATIONAL NETWORK OF MINES		OUR COST FOCUS	OUR VALUE PROPOSITION			
	environmenta our coal peers		formance	ranked			
	07 SMCRA Violations olations compared to key competitors) 224		 Arch's 2007 environmental performance was the best in the company's 10-year history 				
		•	 During the past decade, we've won more than 50 national and state awards for environmental stewardship 				
ACI Competitor 1	28 1 Competitor 2 Competitor 3	•	Arch's 2008 violation rate	008 year-to-date rate is zero			
		•	Arch's unique	demonstrates e culture and s a responsible			
				Arch Coal, Inc.			
ources: ACI and State-by-state repor	ts. Totals do not reflect any NOVs that r	nay have bee	n vacated during an appeals	process. Slide			





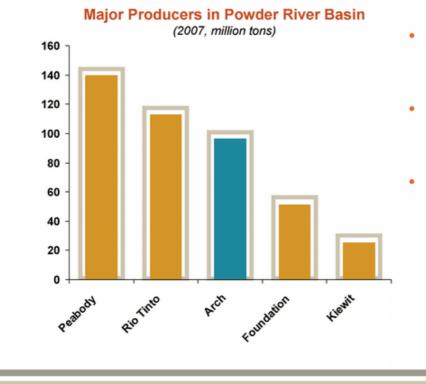




Sources: ACI, Energy Velocity

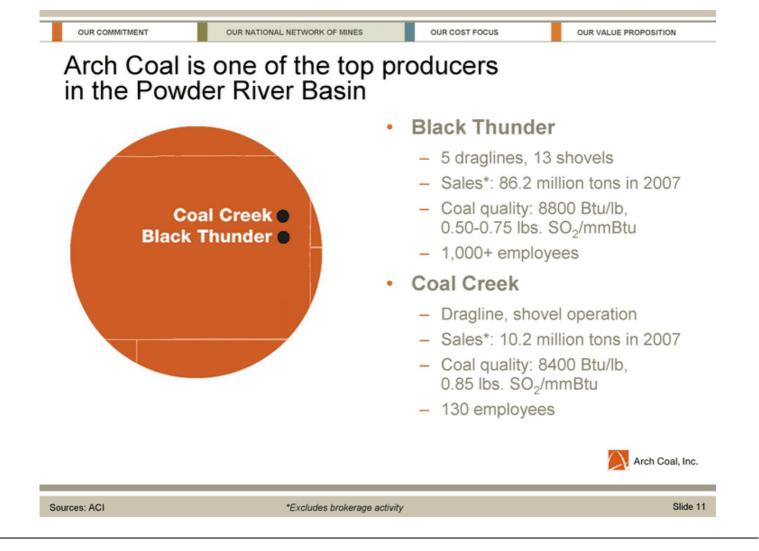
OUR VALUE PROPOSITION

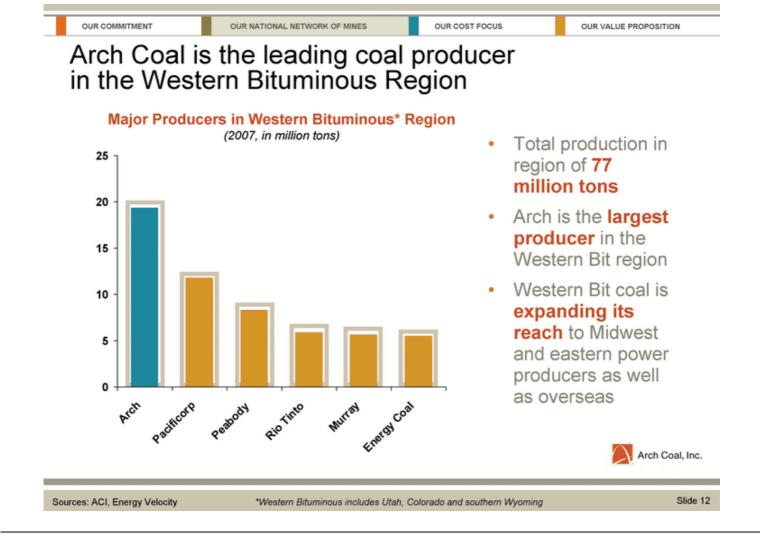
The Powder River Basin is the largest coal supply region in the United States



- Total production in region of 480 million tons
- Roughly 50% of PRB coal moves east of Mississippi River today
- With global supply shortfalls, we believe PRB will penetrate further east and move to export

Arch Coal, Inc.

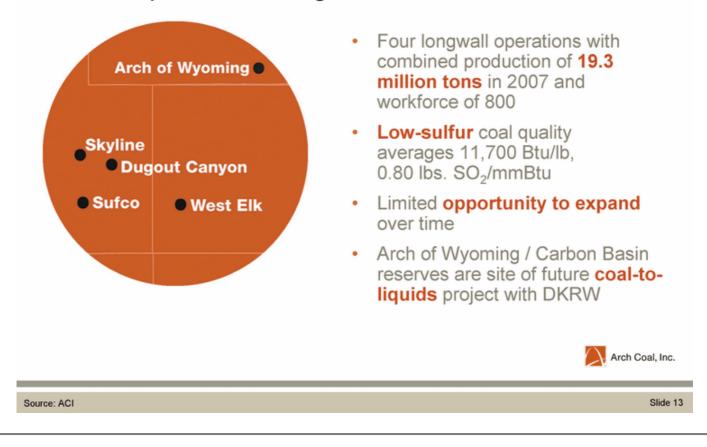




OUR COST FOCUS

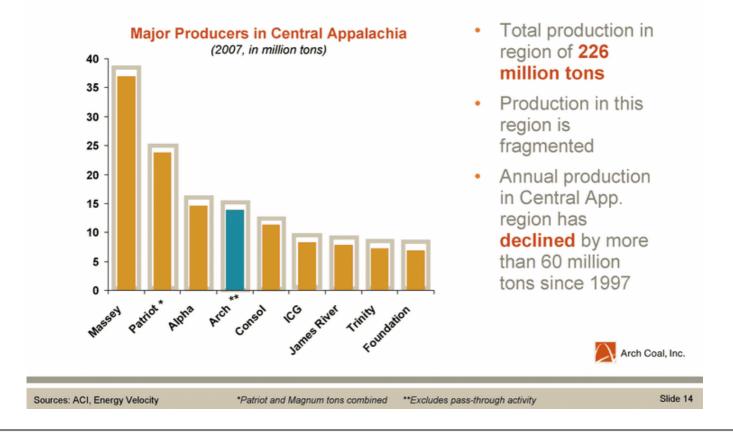
OUR VALUE PROPOSITION

Arch's Western Bituminous operations are some of the most productive longwall mines in the nation



OUR VALUE PROPOSITION

Arch has maintained a meaningful position in Central Appalachia



OUR COST FOCUS

OUR VALUE PROPOSITION

Arch remains a key producer of metallurgical and steam coal in Central Appalachia

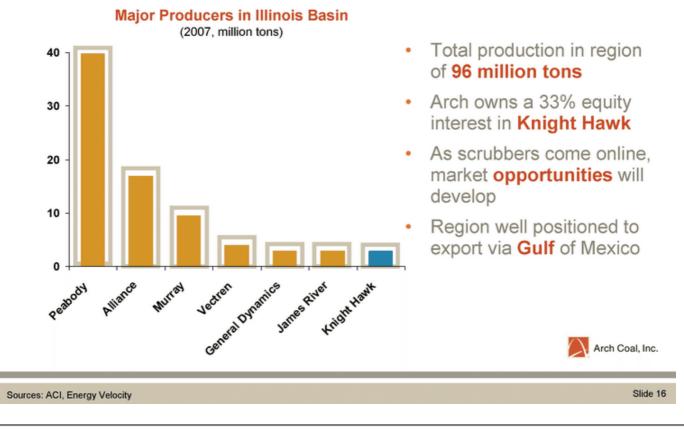


OUR COST FOCUS

OUR VALUE PROPOSITION

OUR NATIONAL NETWORK OF MINES

OUR COMMITMENT





We continue to seek new and innovative ways to manage our controllable costs at all of our mines

- Increasing coordination through centralized purchasing, operations, safety and environmental affairs
- Building a culture of continuous process improvement efforts to encourage innovative solutions and share best practices
 - Est. \$18 million cost-savings per year in 2007 and 2006
- Predictive maintenance reduces unplanned downtime and overtime, extends equipment life
 - Est. \$18 million cost-savings in 2007, \$11.5 million in 2006
- Focusing on cost control of major consumables such as diesel, electricity, explosives (natural gas) and tires (petroleum product)
 - Building alliances with major vendors; hedging; long-term supply arrangements



Slide 18

Source: ACI

OUR COST FOCUS

OUR VALUE PROPOSITION

Coal blending optimization allows Arch to better monetize every Btu

•





- Blending optimization models allocate mine production to sales contracts, thus maximizing margin
 - Models allow sales team to know real value in 100 Btu increments
- Dynamic coal quality targets provide monthly rolling quality averages for each customer so loading sources can adjust blends and provide optimum coal recovery
 - Additional space at DTA terminal allows for precision blending of international shipments to generate the greatest volume of our premium valued products
- Through coal blending optimization, Arch achieved an additional \$10 million in coal revenues in 2007

Source: ACI

Energy savings is a primary cost-control initiative

- Developing fuel and lubricant consumption goals for each mine
- Conducting energy analysis in Utah and Colorado
- Reviewing equipment usage, developing fuel economy and optimization plan
- Evaluating alternate technologies, such as electric conveyors





Source: ACI

OUR COST FOCUS

OUR VALUE PROPOSITION

We're focused on creating shareholder value as the energy industry expands



- Recognized leadership in mine safety and environmental stewardship promotes higher productivity and helps attract best-in-class workforce
- Rigorous focus on cost control and judicious capital spending helps expand margins
- Strong understanding of **world and domestic market trends** allows us to anticipate timing of future coal supply/demand
- **Financial flexibility** allows us to consider future investments for organic and strategic growth and capital enhancements
- A clear focus on clean coal in an evolving marketplace allows Arch to leverage our innovative expertise and expand market for coal
 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.

Adjusted EBITDA									
	1Q 06	2Q 06	3Q 06	4Q 06	1Q 07	2Q 07	3Q 07	4Q 07	1Q 08
Net income	\$ 60,687	\$ 69,717	\$ 50,927	\$ 79,600	\$ 28,724	\$ 37,552	\$ 27,280	\$ 81,373	\$ 81,147
Income tax (benefit) expense	17,900	13,000	12,100	(35,350)	4,650	(2,400)	5,100	(27,200)	15,240
Interest expense, net	14,157	15,323	15,602	15,557	16,587	18,280	16,638	20,760	20,063
Depreciation, depletion and amortization	45,821	51,713	53,641	57,179	57,620	57,990	58,628	67,824	73,042
Expenses from early debt									
extinguishment and other non-operating	1,393	1,808	3,572	674	902	418	806	147	-
			-					-	
Adjusted EBITDA	\$139,958	\$151,561	\$135,842	\$117,660	\$108,483	\$111,840	\$108,452	\$142,904	\$189,492



Source: ACI

Arch Coal, Inc.





Arch Coal Analyst Mine Tour

John Drexler Senior Vice President and Chief Financial Officer

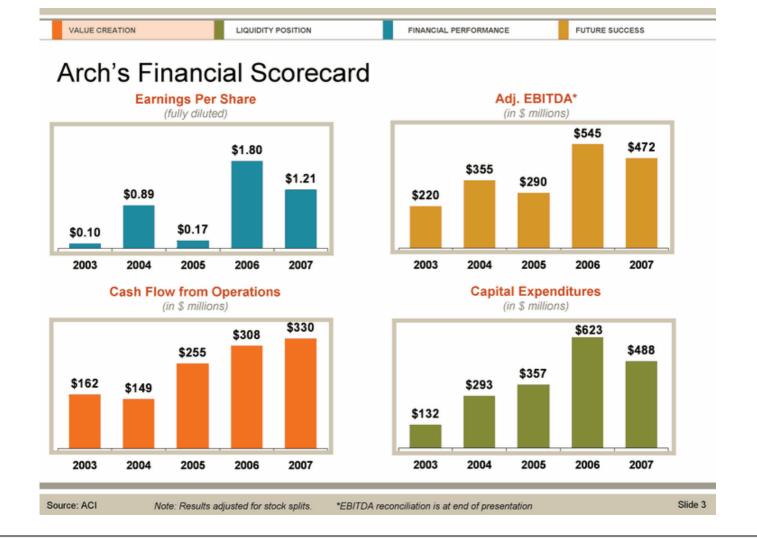
Mountain Laurel Complex June 19, 2008

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Arch successfully anticipated past coal market trends; assembled strategic national and diverse asset base

- Strategically expanded operational focus on growth markets
 - Acquired assets and reserves opportunistically
- Identified market trends early and built a position in low-sulfur reserves
 - Low-sulfur coal continues to command a price premium in the market today
 - Expanded strategy to include low-chlorine reserves
- Monetized non-core assets at advantageous times
 - Portfolio approach to asset base
 - Redeployed capital from asset sales into more strategic investments
- Pursued key organic growth initiatives
 - Invested in projects that have provided a competitive advantage
- Leveraged asset base to participate in emerging trends/technologies
 - Focused on developing new markets for coal

Source: ACI

Arch Coal, Inc.

FUTURE SUCCESS

Overview of Arch's key past and present value-creating activities

Powder River Basin

VALUE CREATION

- Arco assets (1998)
- Thundercloud LBA (1998)
- North Rochelle (2004)
- Little Thunder LBA (2004)
- Coal Creek reopened (2006)

Western Bituminous Region

- Arco assets (1998)
- Canyon Fuel interest (2004)
- Skyline reopened (2006)
- Carbon Basin CTL opportunity (2006)

Central Appalachia

- Contributed reserves to form NRP and monetized assets (2002-2004)
- Sold select operations (2005)
- Sold Mingo Logan Ben Creek (2007)
- Mountain Laurel longwall start-up (2007)

Illinois Basin

Acquired equity interest in Knight Hawk Holdings (2006)

Acquired Denmark reserves (2007)



Slide 5

Source: ACI

VALUE CREATION	VAI	LUE	с	REA'	TION
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FUTURE SUCCESS

Arch has significantly strengthened its financial position; maintains lowest legacy liabilities among peers

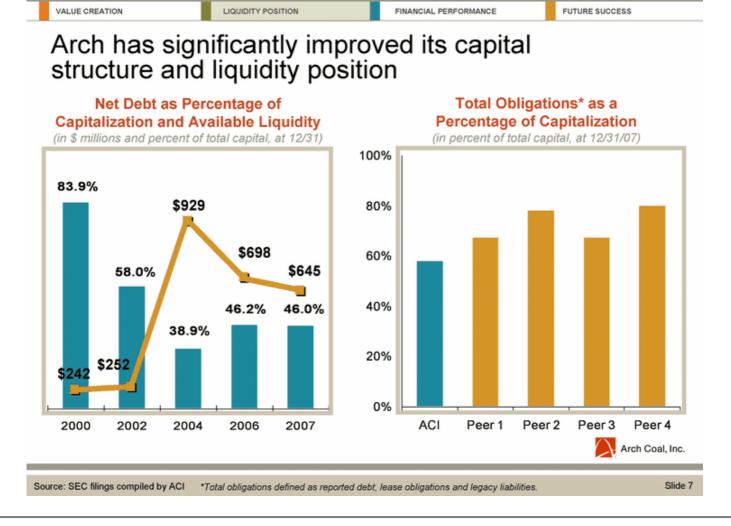


- Substantially reduced legacy liability position since 2005
 - More than one-half of Arch's remaining legacy liabilities represent ongoing reclamation expense
- Translates into significant
 annual expense savings
 - Arch estimates that annual costs required to service prior legacy liabilities were reduced by roughly \$65 million

Arch Coal, Inc.

Slide 6

Source: SEC filings compiled by ACI



FUTURE SUCCESS

Arch has access to multiple sources of low-cost financing

Revolving Credit Facility

Restructured in 2006 to increase capacity to \$800 million

Asset Securitization

- Established in 2006 and expanded in 2008
- Capacity of \$175 million
- Rates are typically better than our Revolver borrowing rate

Commercial Paper Program

- Established in 2007 and expanded in 2008
- Capacity of \$100 million
- Rates are comparable to other highly rated CP programs
- Rates are typically better than our Revolver borrowing rate



Slide 8

Source: ACI

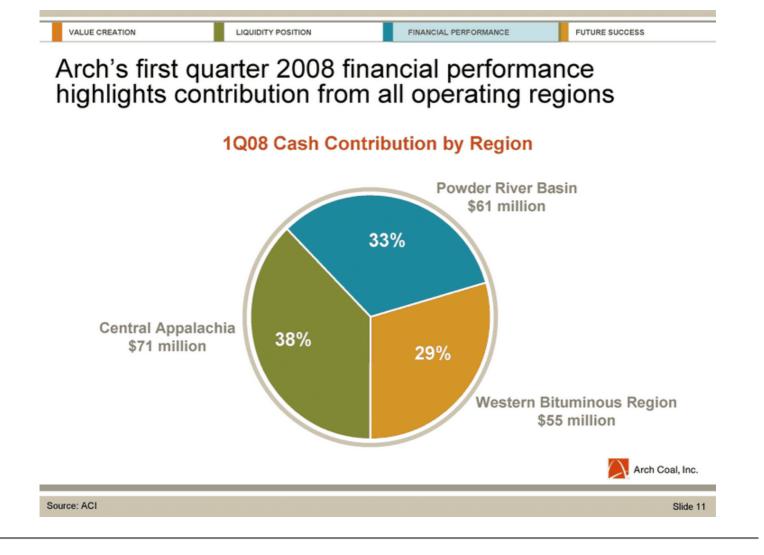
FUTURE SUCCESS

Arch's adherence to a market-driven strategy laid the foundation for current success

- Maintain strong balance sheet to support leveraged sales position
 - Go prompt in weak market cycle to preserve future upside potential
 - Layering and patient sales approach as markets strengthen
 - Leveraged contracting strategies; use of trading to optimize asset base
- Re-align production and capital spending levels to match market
 - Match production targets to current market demand
 - Align capital spend with market expectations
 - Unhedged sales position reduces need for significant expansion capital
- Diligently manage controllable costs and preserve flexibility
 - Focus on cost control; increase operational flexibility
 - Offset cost pressures with productivity and process improvement initiatives

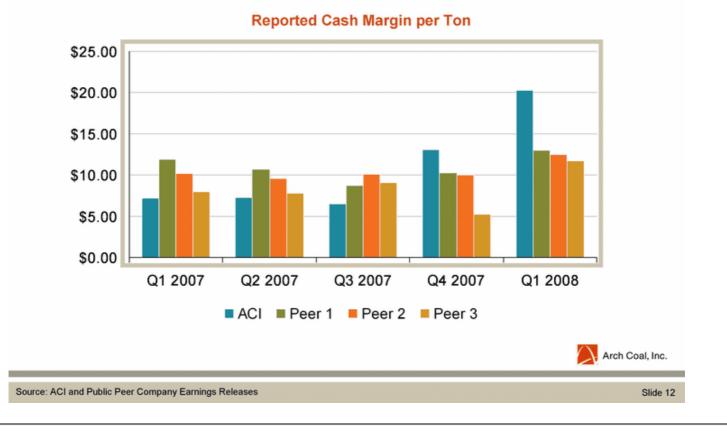
Source: ACI





VA	LUE	CRE	AT	ION

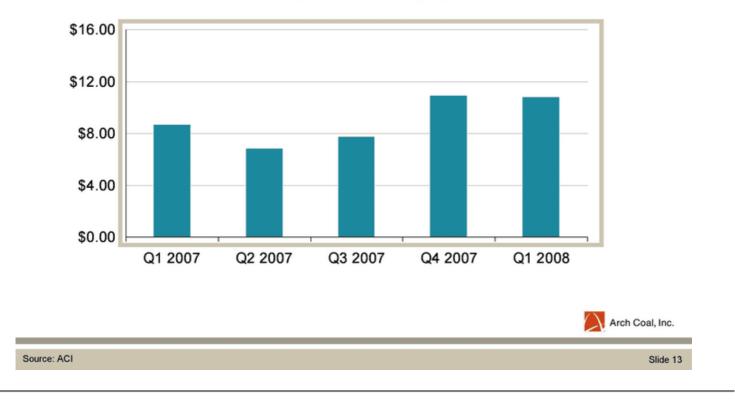
Arch's cash margin in Central Appalachia has outperformed since the Mountain Laurel start-up

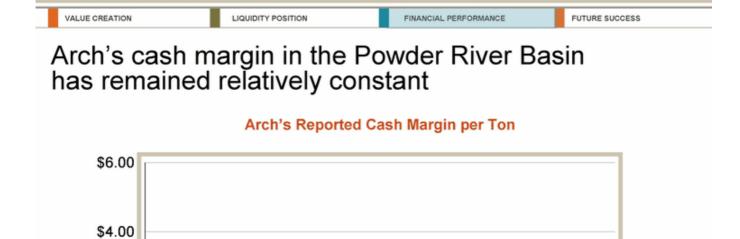


VALUE	CREATION
VALUE	OREATION

Arch's cash margin in the Western Bituminous Region has been improving

Arch's Reported Cash Margin per Ton







Q3 2007

Q4 2007

Q1 2008

\$2.00

\$0.00

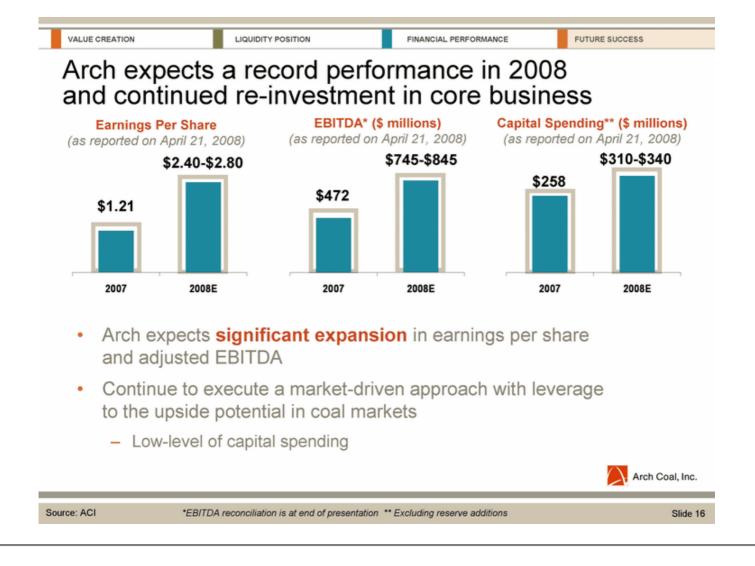
Q1 2007

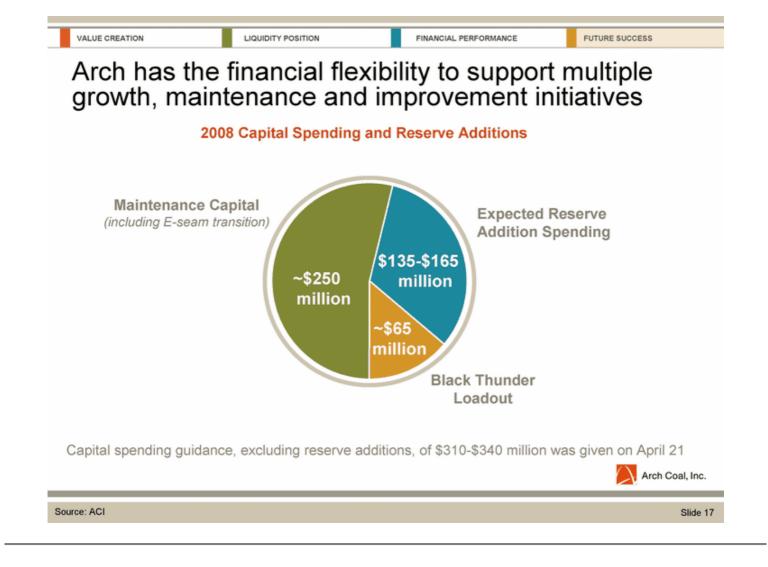
Q2 2007

Arch's strategic brokering and trading platform enhances value for shareholders

- Established in 2006 and expanded in 2007 and 2008
- · Platform designed to enhance value through a variety of means
 - Risk management
 - Asset optimization
 - Trading
 - Acquisition of market intelligence
- Executed in a careful and deliberate fashion
 - Focused on managing and controlling risk









FUTURE SUCCESS

Arch is poised to generate – and rigorously prioritizes the use of – free cash flow



- Invest in core businesses to enhance profit growth and return on capital, evaluate opportunities to further upgrade/expand reserve base
- Maintain strong balance sheet
- Consider acquisitions, divestitures or other investments that strategically fit and create value
- Expand market for coal (and perception of coal's value) through coal-conversion technologies that provide significant upside

Source: ACI

Arch Coal, Inc.

Arch's value proposition is attractive

- Defined strategy to manage business successfully in all markets
- Asset base is one of the best in the business
- Significant exposure in Central Appalachia to robust met story
- Increasing opportunity to participate in global seaborne export market
- Largest producer in strong Western Bituminous region
- Largest exposure to emerging Powder River Basin story
- Experienced and talented management team
- Past record of delivering shareholder value
- CTL and CTG development should help valuation of Btus in the ground



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.

				Targeted	d Results			
	Three Mor	nths Ended	Year Ended	Year Ended				
	Marc	:h 31	December 31,	December 31, 2008				
	2007	2008	2007	Low	High			
(in \$000s)				(Unau	idited)			
Net income	\$ 28,724	\$ 81,147	\$ 174,929	\$ 348,000	\$ 406,000			
Income tax (benefit) expense	4,650	15,240	(19,850)	34,000	71,000			
Interest expense, net	16,587	20,063	72,265	78,000	73,000			
Depreciation, depletion and amortization	57,620	73,042	242,062	285,000	295,000			
Non-operating expense	902	-	2,273	-	-			
Adjusted EBITDA	\$ 108,483	\$ 189,492	\$ 471,679	\$ 745,000	\$ 845,000			
Adjusted EBITDA	\$ 108,483	\$ 189,492	\$ 471,679	\$ 745,000	\$ 845,000			

		Twelve Months Ended December 31							
	2003			2004		2005		2006	
(in \$000s)									
Net income	s	16,686	s	113,706	s	38,123	s	260,931	
Cumulative effect of accounting change		3,654		-					
Income tax (benefit) expense		(23,210)		(130)		(34,650)		7,650	
Interest expense, net		47,497		56,504		63,120		60,639	
Depreciation, depletion and amortization - Arch Coal, Inc.		158,464		166,322		212,301		208,354	
DD&A - Equity interest in Canyon Fuel Company, LLC		21,425		10,359		-		-	
Expenses from early debt extinguishment and other non-operating		(4,256)		7,966		11,264		7,447	
Adjusted EBITDA	s	220,260	s	354,727	s	290,158	s	545,021	

Source: ACI





Arch Coal Analyst Mine Tour

John Drexler Senior Vice President and Chief Financial Officer

Mountain Laurel Complex June 19, 2008





Arch Coal Analyst Mine Tour

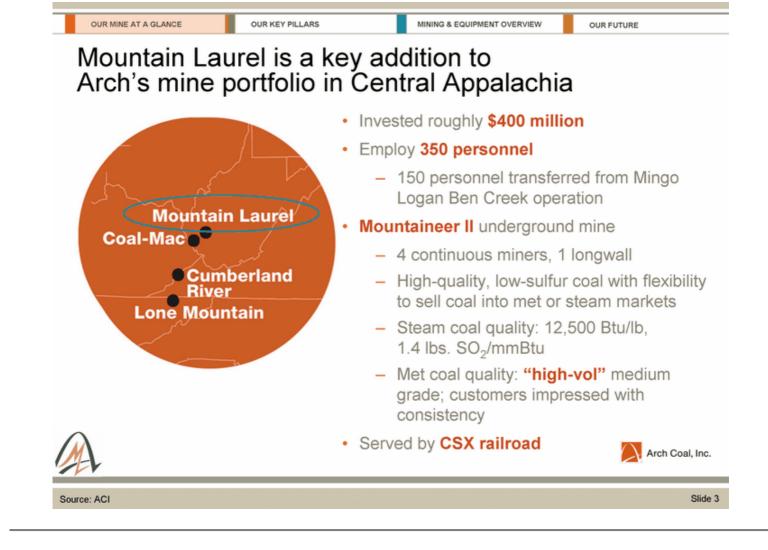
David Runyon General Manager – Mountain Laurel

Mountain Laurel Complex June 19, 2008

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Mountain Laurel Complex Project Goals

- Create a world-class, safe and efficient longwall operation
- Provide infrastructure to support the Mountaineer II underground mine, the Spruce surface mine and satellite operations
- Construct a state-of-the-art preparation plant to optimize coal blends for the property
- Build on the success of the Mingo Logan Ben Creek Complex



Source: ACI



(September 2004)



Mountain Laurel Project Completion

- Began Alma Seam development in Sept. 2005
- First train loaded in July 2006
- Longwall startup on Oct. 1, 2007
 - Best start-up process in the history of the company
 - First longwall move completed in 6 days
- Life of mining complex ~ 20 years
 - 50 million tons of recoverable underground reserves from the Alma and Cedar Grove seams
- A

Source: ACI

 83 million tons of reserves for the entire complex





We have great expectations for Mountain Laurel



- Longwall production began at precisely the right time
- One of the lowest cost mines east of the Mississippi
 - High-quality reserve base
 - Talented and experienced workforce



Mountain Laurel is focused on achieving excellence in safety



- Operated 19 months without a lost-time injury
- Twenty-six months without a reportable injury at the Cardinal Preparation Plant
- Distinguished Awards won by the complex:
 - WV Office of Miners' Health, Safety & Training Mountaineer Guardian Award
 - Mountaineer II Mine in 2006
 - Cardinal Preparation Plant in 2007
 - Joseph A. Holmes Safety Association Award
 - Mountaineer II Mine in 2006
 - Cardinal Preparation Plant in 2007
 - Mine Safety & Health Administration's Pacesetter Award
 - Mountaineer II Mine in 2006 for best injury rate in District 4

Slide 7



Sources: ACI & MSHA

Our ultimate safety goal is "zero accidents"

- Behavior Based Safety Program "S.L.O.P.E."
 - First U.S. underground mine to implement process
 - Good fit for a new operation
- Key program components
 - Peer-to-peer observations
 - Employee ownership
 - Identifies safe and at-risk behaviors
 - Management and hourly work together to remove barriers

Great communication tool

No name, no blame



Source: ACI





Mountain Laurel is committed to responsible environmental stewardship



- We have excellent reclamation and drainage techniques designed to protect the environment and native wildlife
 - Zero notice of violations in 2007 and so far in 2008
 - **Distinguished Awards** won by the complex:
 - WV Department of Environmental Protection Green Lands Award for 2006
 - Arch Coal President's Award for 2007
 - Award presented to company mine that best exemplifies Arch's commitment to environmental excellence and stewardship



11

Sources: ACI

Our stewardship and community service practices have been nationally recognized

• Received National Good Neighbor Award (Gold) from the U.S. Department of the Interior

- Funded construction of a new section of highway, a railroad overpass and a bridge to provide residents with a safe connection to the existing highway
- Community outreach program helped 90 homes gain public water access in surrounding towns
- Received the Excellence in the Advancement of Public Service or Community Development Award from the American Coal Council
 - Community Advisory Panel (CAP) meets regularly to work on common goals
 - Utilizes Arch Coal Foundation funding to award mini-grants to qualifying teachers in the area



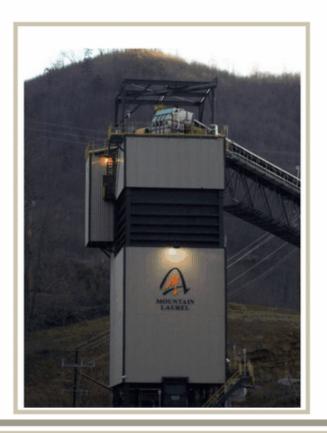
Source: ACI





Rail loadout

- Newest technology available
- Loading rate of 5,000 tons per hour fed by a 72 inch conveyor
- Unit train loaded in less than four hours
- Three stage sampling system
- Full elemental coal analyzer for blending purposes (ash, moisture, Btu and sulfur)





Source: ACI

Clean coal storage

- Four 80-foot-high stacking tubes
- 120,000 ton live capacity
- Ability to store in excess of 300,000 tons





Source: ACI

Cardinal preparation plant

- Capacity 2100 T.P.H.
 - Three parallel modules
- Each module is designed for single unit operation
 - maximize simplicity
 - promote ease of operations
 - facilitate maintenance
- Plant circuitry
 - coarse heavy media vessel
 - intermediate heavy media cyclone
 - fine compound spirals
 - ultrafine deslime column flotation



Source: ACI



OUR KEY PILLARS

OUR FUTURE

Additional mine infrastructure



(mine office and bathhouse)



(return shaft fan installation)

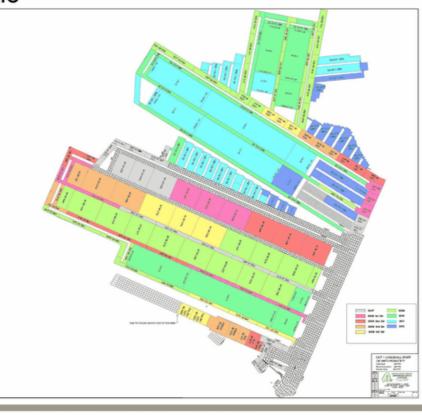
(in-take shaft with emergency escape hoist)

Source: ACI

Slide 15

Mine plan schematic

- 30-million-ton Alma seam
- 20-million-ton Cedar Grove seam
- More than 300 drill holes used in mine planning



Source: ACI

Mining the seam

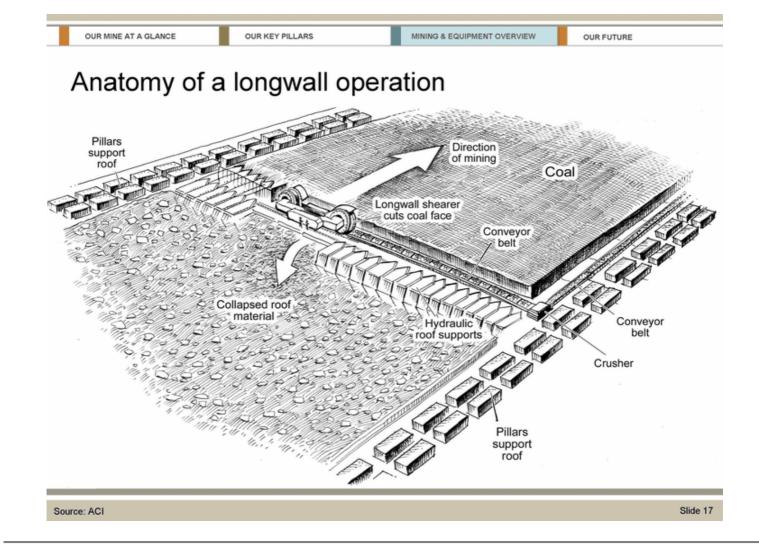
- Seven-foot-thick coal seam
- Only 52 systems operating in the United States





Source: ACI

Arch Coal, Inc.



Underground equipment

- Development Units
 - 14CM15/12CM12 Continuous Miners
 - Narco 10SC-32 Shuttle Cars
 - Stamler Feeder
 - Fletcher RR II Roof Bolter
 - Fairchild 35H Workhorse Scoops
- Longwall (Complete Joy System)
 - 1040 ton Shields
 - 4,000 tph Armored Face Conveyor
 - Joy 7LS2A shearer



Source: ACI



(roof bolter)



(longwall face)

OUR KEY PILLARS

OUR FUTURE

Underground equipment

(longwall equipment on site)

(continuous miner)



(shearer at the longwall face)



(shuttle car)

Source: ACI

Future growth opportunities at Mountain Laurel are promising

- Plan to add a fifth continuous miner unit to increase production in met market boom
- Consider future development of Spruce surface reserves and satellite mines



(continuous miner)



(raw and clean coal storage)

A

Source: ACI

We're focused and ready to excel



- Recognized leader in mine safety, environmental stewardship and community outreach programs
- Three pillar focus translates into attracting a best-in-class workforce
- Longwall production began at precisely the right time
- Low-cost reserve base and a focus on cost control help expand margins
- Future growth opportunities include Spruce surface development







Arch Coal Analyst Mine Tour

David Runyon General Manager – Mountain Laurel

Mountain Laurel Complex June 19, 2008





Arch Coal Analyst Mine Tour

Peter Bethell, Ph.D. Director of Coal Preparation – Arch Coal, Inc.

Mountain Laurel Complex June 19, 2008

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.



PLANT OUTPUT

SUMMARY

Cardinal preparation plant highlights

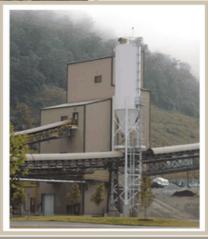
- We're achieving 98.5% organic efficiency
- Plant is running at 95% availability
- We're producing high-quality met coal with 5.0%-7.5% ash
 - Re-wash circuit produces a <5% ash premium product



(prep plant)

Slide 3

(metallurgical re-wash circuit)



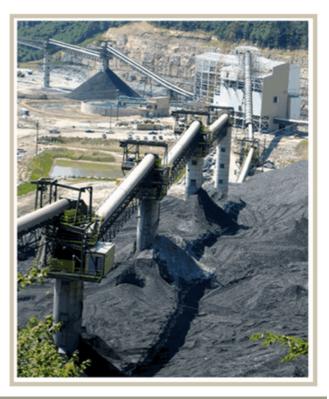
A

Source: ACI

SUMMARY

Raw coal handling statistics

- Mine slope belt: 5000 tph
- 4 stacking tubes: 80' high
- Stockpile capacity: 500,000 tons
- · Reclaim capacity: 2500 tph
- Sizing to 6": MMD sizer





Source: ACI

SUMMARY

Circuit Design Philosophy

- 1. Simplicity
- 2. Appoint new plant manager early
- 3. Single unit operation circuit design
- Three 700 tph modules
- 5. Ability to run 1, 2 or 3 modules
- Combined raw coal/de-slime double deck screen concept (10 millimeter and 1 millimeter separation), efficient and reduces footprint
- Overhead crane maximize maintenance access
- 8. Vessel circuit and D.M. cyclones

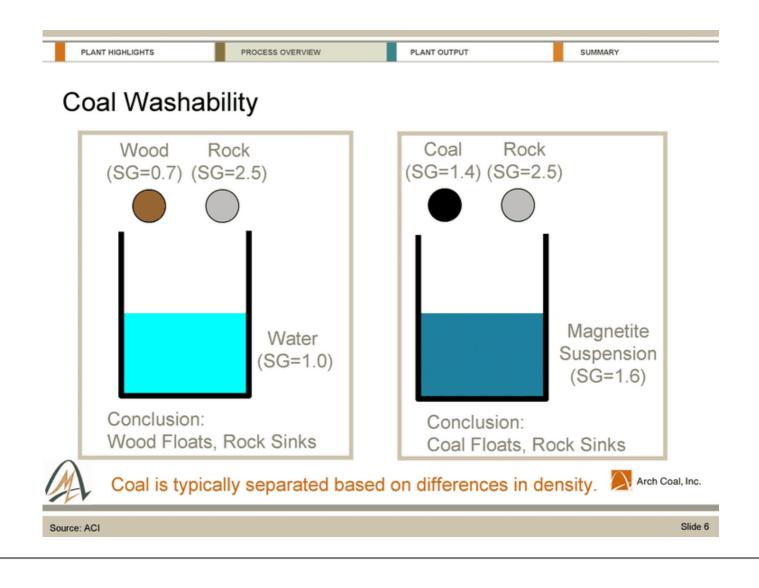


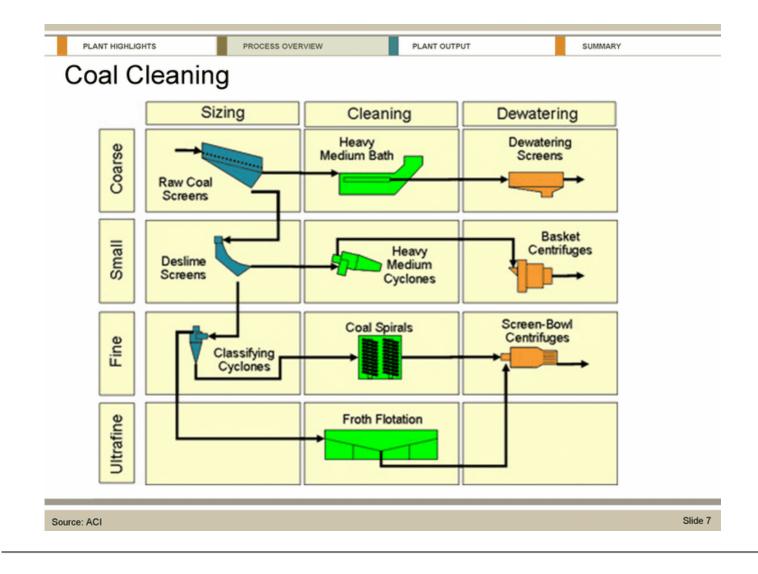
Source: ACI

- Compound spirals low feed rate (2tph/start)
- 10. De-slime column flotation eliminate high incremental moisture slimes
- 11. Screen bowl centrifuges high capacity
- 12. Wear resistant materials
- 13. Engineered runs on all plant piping
- 14. Design for major swings in yield (30-70%) and sizing
- 15. Minimize refuse trucking
- 16. Pump slurry to impoundment
- 17. Added met re-wash plant to make low-ash product



Slide 5





PLANT OUTPUT

SUMMARY

Combined raw coal / de-slime screen



PLANT OUTPUT

Dense media vessel





PROCESS OVERVIEW

PLANT OUTPUT

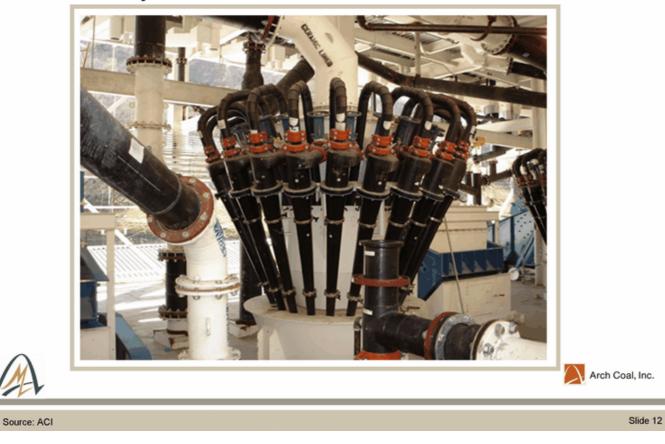
SUMMARY

Compound spirals



PLANT OUTPUT

De-slime cyclones



PLANT HIGHLIGHTS	PROCESS OVERVIEW	PLANT OUTPUT	SUMMARY
Column flotat	ion cell assemb	bled	



Source: ACI



Slide 13

Column cell washwater tray



PLANT OUTPUT

Ludowici dryer



Screen bowl centrifuge



SUMMARY

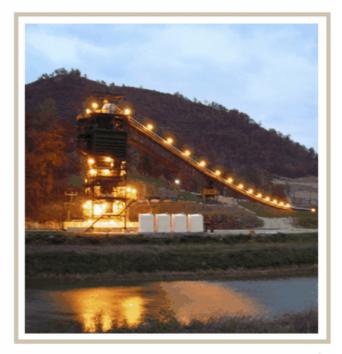
PROCESS OVERVIEW

PLANT OUTPUT

SUMMARY

We're optimizing our blends and yields in a continuous effort to deliver shareholder value

- Employ state-of-the-art technology to enhance material recovery at our preparation plants
- Evaluate and implement best practices from around the globe
- With minimal capital investment, we are efficiently cleaning our coal to meet customer specifications and to increase our yields
 - Ongoing initiatives are translating into 400,000 tons of additional coal material recovery annually







Arch Coal Analyst Mine Tour

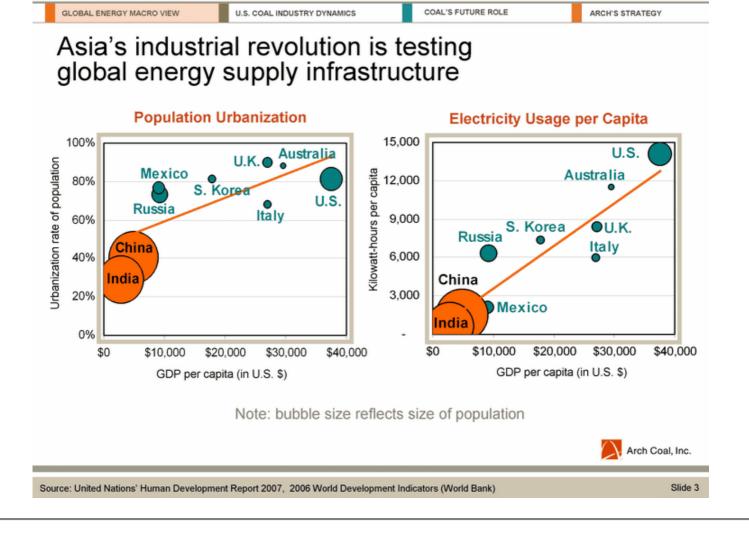
John Eaves President and Chief Operating Officer

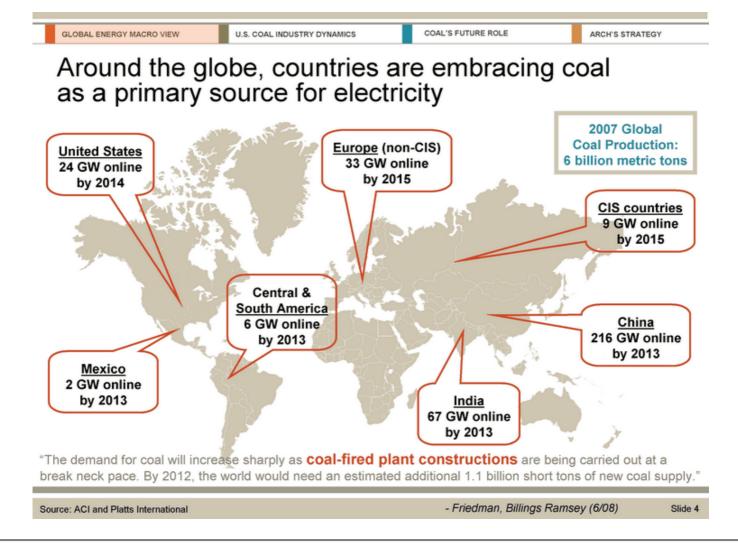
Mountain Laurel Complex June 19, 2008

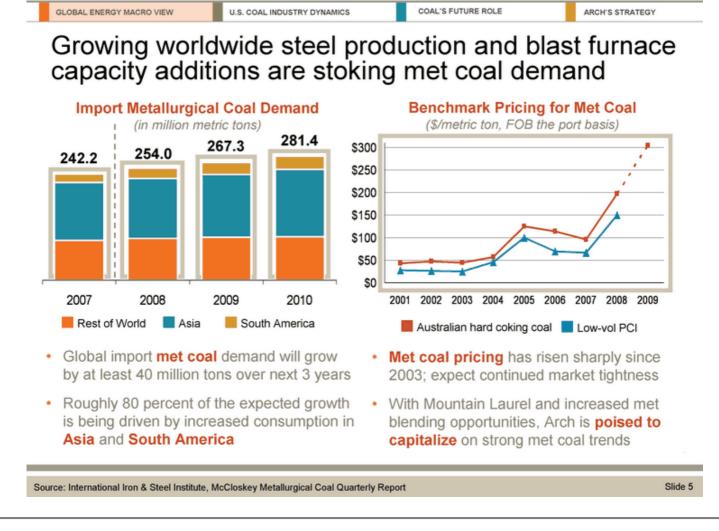
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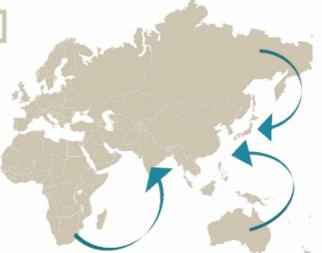
COAL'S FUTURE ROLE

ARCH'S STRATEGY

Supply constraints in traditional coal export nations are shifting global seaborne coal flows

Key Trends in Asia-Pacific Coal Markets

- Australia: severe port and rail bottlenecks may mask underlying labor and mine challenges; expanded capacity still may undershoot growing Asian demand
- Indonesia: increasing domestic demand; export capacity dependent on congested river system
- China: substantial growth in domestic demand will push country to a net importer status of coal as early as 2008
- Vietnam: growing domestic demand expected to reduce export supply
- India: imported coal needs projected to rise meaningfully; will pull available supply from Atlantic Basin markets

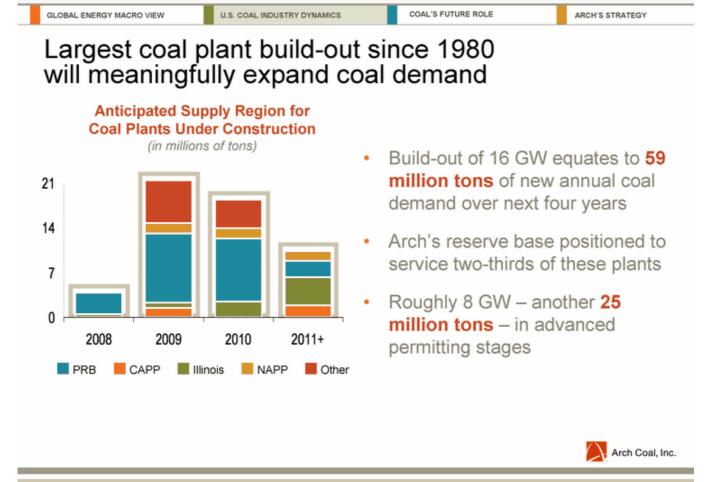


- Russia: production challenges; growing domestic coal consumption; exports increasingly shifting to Asia-Pacific market
- South Africa: domestic power shortage; reserve degradation; exports increasingly shifting to Asia-Pacific market

Source: ACI

Slide 6

GLOBAL ENERGY MACRO VIEW	U.S. COAL INDUSTRY DYNAMICS	COAL'S FUTUR	E ROLE	ARCH'S STRATEGY
Asian demand for the United S	pull is creating States in seabo	opporti rne coa	unities I export	markets
Key Trends in Atlantic	Basin Coal Markets	 constraints; political instability; resource nationalism; growing regional coal burn USA: swing supplier to Atlantic basin 		
	USA : swing supplier to Atlantic basin market; available coal export capacity; imports into country declining			
	Carlos .	 Europe: coal production declining; growing coal burn in eastern Europe; traditional import supply avenues waning 		
			orne Coal Su n million metric to (40)	
2007 seaborne total trade: S	000 million metric tons	2008	2009	2010
Source: ACI				Slide 7



Slide 8

Source: Platts and ACI

Slide 9

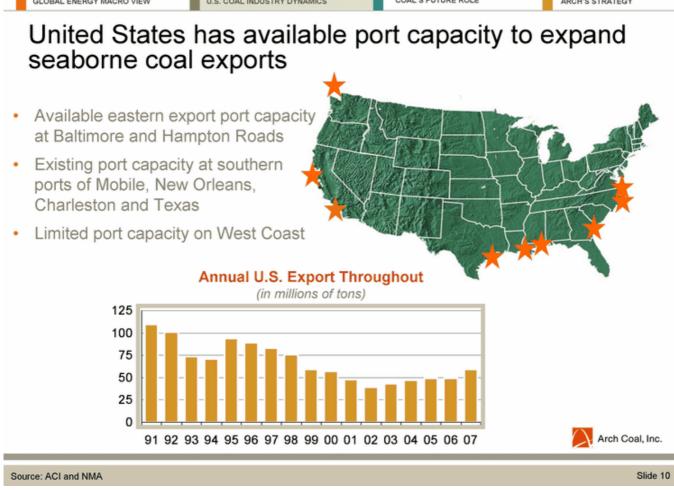
In the United States, Arch expects growth in coal demand to accelerate over the next three years

(in million tons)	2008	2009	2010
Growth at Existing Coal Plants	+11	+11	+11
New Coal Plant Demand 1/	4	22	19
Increase in Gross Exports	21	10	10
Decline in Imports	6	1	<u> </u>
Incremental Demand Growth	+42	+44	+40
Cumulative		+86	+126

1/ Net of coal plant retirements.

- U.S. coal demand to grow by more than 3% annually through 2010
 - U.S. coal generation fleet has increased average utilization by 1 percent annually over the past 10 years
 - New coal plant build-out will expand coal consumption meaningfully
 - U.S. is expected to become a more significant net exporter given shortage of coal supply worldwide and available port capacity
 Arch Coal, Inc.

Source: ACI and Platts



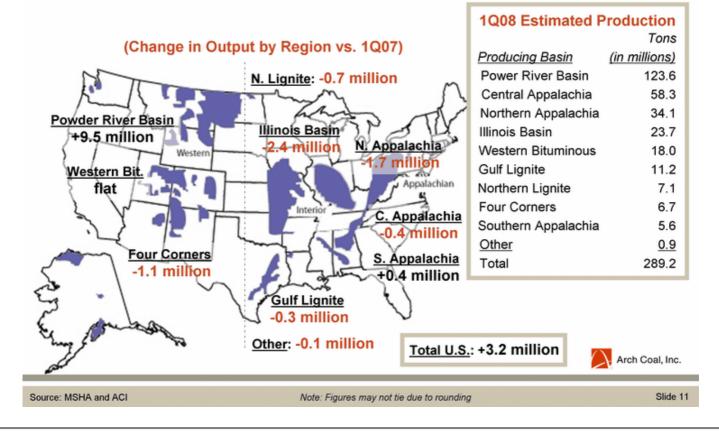
U.S. COAL INDUSTRY DYNAMICS

COAL'S FUTURE ROLE

ARCH'S STRATEGY

ARCH'S STRATEGY

U.S. coal supply growth is not keeping pace with projected U.S. coal demand so far in 2008



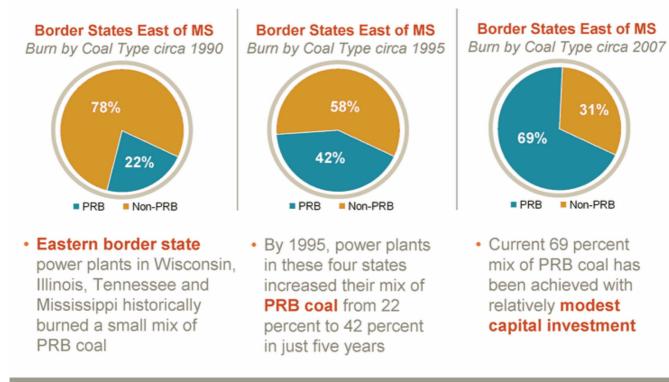
GLOBAL ENERGY MACRO VIEW	U.S. COAL INDUSTRY DYNAMICS	COAL'S FUTURE ROLE	ARCH'S STRATEGY
While U.S. stoo generator com			se
Eastern Inventory Levels (in days of burn) 57 50	<u> </u>	a tightness in the marke onal fundamentals, global <i>- AEP (5/08)</i>	
April-07 April-08	coal, and we - while reb	increasing amount of Pow palancing the portfolio – ha e targets by blending in c - AEP (5/08)	ave remained
Western Inventory Levels (in days of burn) 62 46 46	piles got pretty dramati instance affected our a wholesale market. With more inventory and w certainly have increase	shortages a year and a l cally low Coal conserv bility to sell some [power] this, it showed that we ne e need to keep that stock dour [targets] Great Plains Energy (5/0	vation in our into the eed to have pile. So, we
Apr-07 Apr-08			

Source: ACI, Energy Ventures Analysis and Select Generator Transcripts

Slide 12

ARCH'S STRATEGY

In past cycles, PRB coal has gained market share in border states just east of the Mississippi River



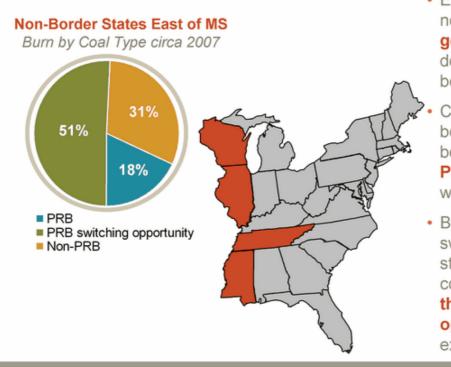
Source: ACI and Energy Velocity

*Border states represent WS, IL, TN and MS

Slide 13

ARCH'S STRATEGY

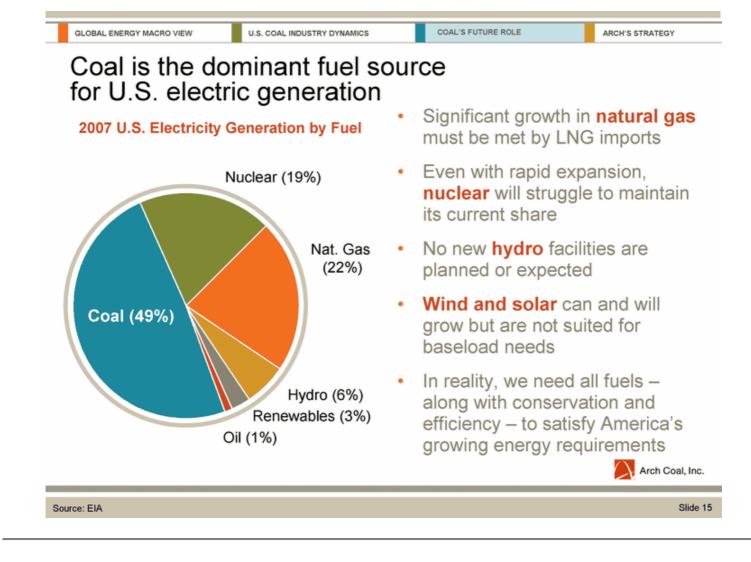
We foresee increased PRB market expansion opportunities further east of the Mississippi River

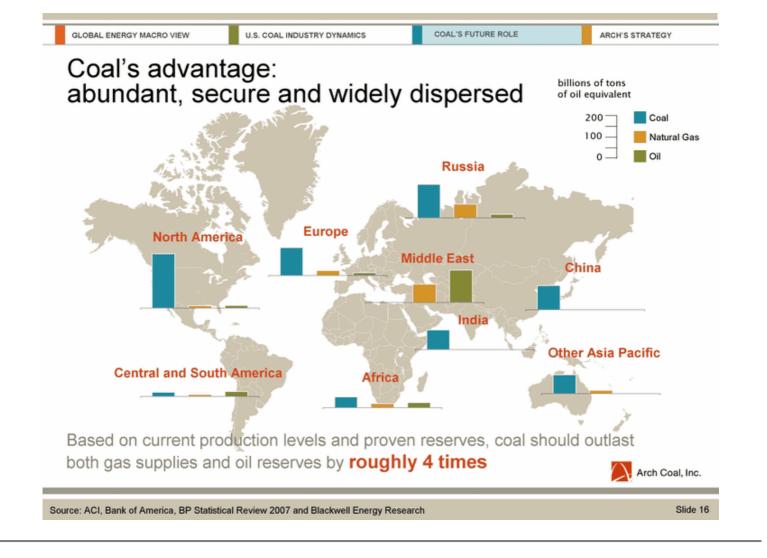


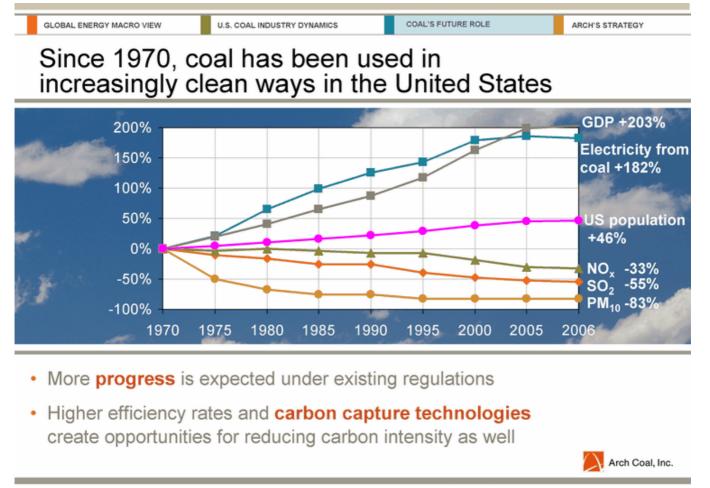
- Eastern power plants in non-border states are generally comparable in design to plants in the border states
 - Consequently, these nonborder state plants should be able to **increase their PRB coal use** significantly with minimal investment
- Based on historical switching in the border states and the lower heat content of PRB coal, the theoretical PRB switching opportunity in the East exceeds 300 million tons

Slide 14

Source: ACI and Energy Velocity







Source: NMA, EPA NOx (Nitrogen Oxide), SO2 (Sulfur Dioxide), PM10 (Particulate Matter) Slide 17

ARCH'S STRATEGY

There is support for coal's essential role in America's energy future



"...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)

"We are sitting on the world's largest supply of energy in our coal reserves and that has to be one of the fundamental components of energy independence."

Senator John McCain (R-AZ)

Source: ACI, Google and Congressional web sites



Global Petroleum I (in million barrels		Mine-Mouth CTL Plant	
Non-OPEC OPEC 84.3	48%	A CONTRACTOR	
2005	52% 2030	Transportation Fuel	
 World oil consumption needs are growing, and increasingly will be supplied by OPEC CTL can have a positive impact on the U.S. economy, security and environment 		Arch owns an equity interest in DKRW Advanced Fuels	
		 Proposed plant would capture CO₂ to enhance recovery in domestic oil fields Arch Coal, Ind 	

U.S. COAL INDUSTRY DYNAMICS

GLOBAL ENERGY MACRO VIEW

COAL'S FUTURE ROLE

ARCH'S STRATEGY

Arch Coal is positioned for the future

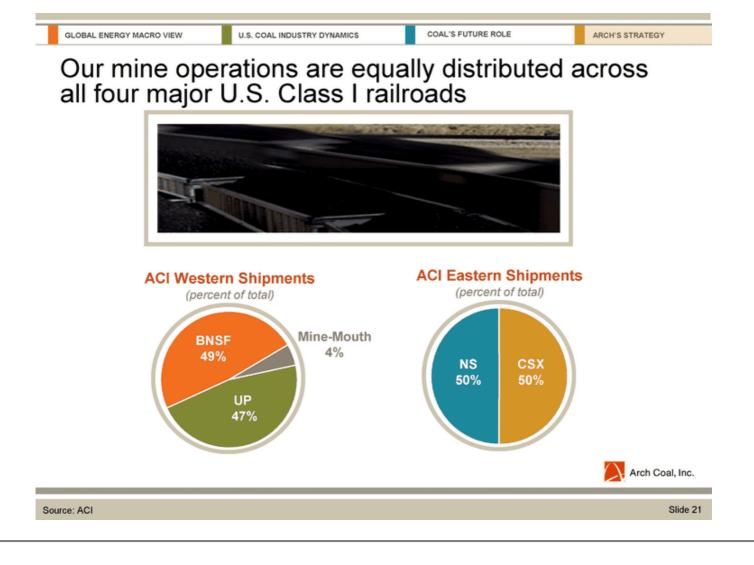


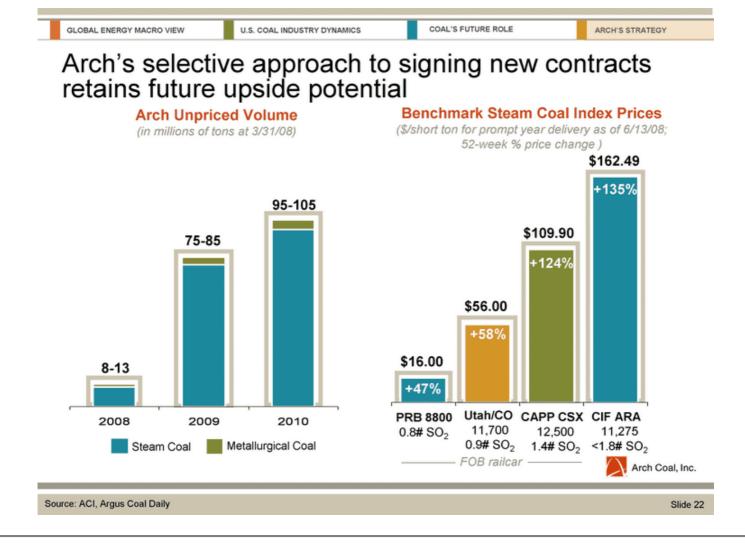
- One of the largest coal producers in the U.S.
- Core business is providing U.S. power generators with cleaner-burning, low-sulfur coal for electric generation
 - Supplies roughly 12% of U.S. coal needs
 - Provides source fuel for roughly 6% of U.S. electricity
- Talented workforce operates large, modern mines
- Industry leader in mine safety, productivity and reclamation

Source: ACI

Arch Coal, Inc.

Slide 20

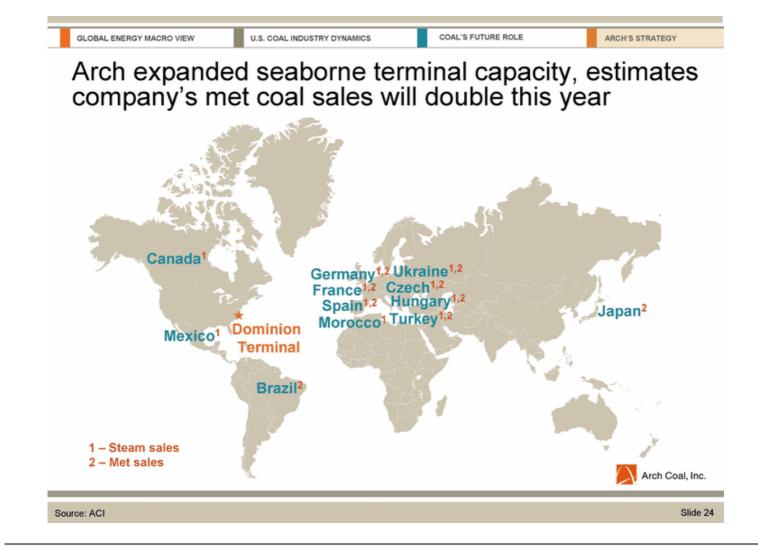




Our strategy on coal contracting continues to evolve

- Terms and conditions near bilateral
 - Embedded volume options all but gone
 - Seller's **sourcing flexibility** has become the norm
- Term agreements are making a comeback
 - Typically have "market adjustment provisions" (i.e. indexed to third party price plus an adder or cost recovery mechanisms)
- Arch open to creative approaches
 - Ensuring all-in cost plus risk adjusted returns
 - Guarantee price floors
- Many customers want security of supply
 - A large, physical and reputable coal producer can extract best value

Arch Coal, Inc.



124

ARCH'S STRATEGY

Arch's future growth story is compelling

- Expect record year in 2008 based on our three pillars safety, environmental stewardship and financial performance
- Experienced workforce and corporate culture committed to operating the safest, most efficient and environmentally responsible mines in the nation
- Large-scale, diverse and low-cost operations that are flexible in response to market demand
- Strategic reserve base well-positioned to meet America's – and the world's – growing energy needs
- Strong balance sheet provides Arch with financial flexibility and strategic opportunities
- Focus on advancing clean-coal technologies to expand market for coal beyond electricity generation
- Building a truly world-class energy company that can deliver substantial shareholder value over the long-term

Source: ACI

Arch Coal, Inc.





Arch Coal Analyst Mine Tour

John Eaves President and Chief Operating Officer

Mountain Laurel Complex June 19, 2008