

**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 8, 2017 (August 8, 2017)**

Arch Coal, Inc.

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction of
incorporation)

1-13105
(Commission File Number)

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

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

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

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

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

Indicate by check mark whether the registrant is an emerging growth company as defined in Rule 405 of the Securities Act of 1933 (Section 230.405 of this chapter) or Rule 12b-2 of the Securities Exchange Act of 1934 (Section 240.12b-2 of this chapter).

Emerging growth company

If an emerging growth company, indicated by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

Item 7.01 Regulation FD Disclosure.

Beginning August 8, 2017, and at other times thereafter, members of the senior management team of Arch Coal, Inc. (the "Company"), will use the attached slides in various investor presentations. 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
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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 8, 2017

Arch Coal, Inc.

By: /s/ Robert G. Jones

Robert G. Jones

Senior Vice President — Law, General Counsel and Secretary

Exhibit Index

Exhibit No.	Description
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99.1	Arch Coal, Inc. Investor Presentation Slides.
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August 2017



Investor Presentation



Investor Presentation 2

Forward-looking information

This presentation contains "forward-looking statements" – that is, statements related to future, not past, events. Forward-looking statements address our expected future business and financial performance including our financial projections and often contain words such as "believes", "could", "should", "expects," "anticipates," "intends," "plans," "believes," "seeks," or "will." Forward-looking statements by their nature address matters that are, to different degrees, uncertain and depend upon important estimates and assumptions concerning our financial and operating results, including with respect to our coal pricing expectations, many of which are subject to change. No representations or warranties are made by us as to the accuracy of any such forward-looking statements. The inclusion of this information should not be regarded as an indication that we consider it to be necessarily predictive of actual future results. The information contained herein reflect numerous estimates and assumptions with respect to coal market conditions, general economic conditions, weather conditions, natural gas prices, competition in our industry, production capacity, availability of surety bonds, and matters other matters specific to our business, all of which are difficult to predict and many of which are beyond our control. Uncertainties arise from changes in the demand for and pricing of 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. There is significant risk that our current estimates and assumptions may not be accurate and that our actual results will vary significantly from our anticipated results. Readers are cautioned not to rely on the forward-looking statements contained herein. 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.

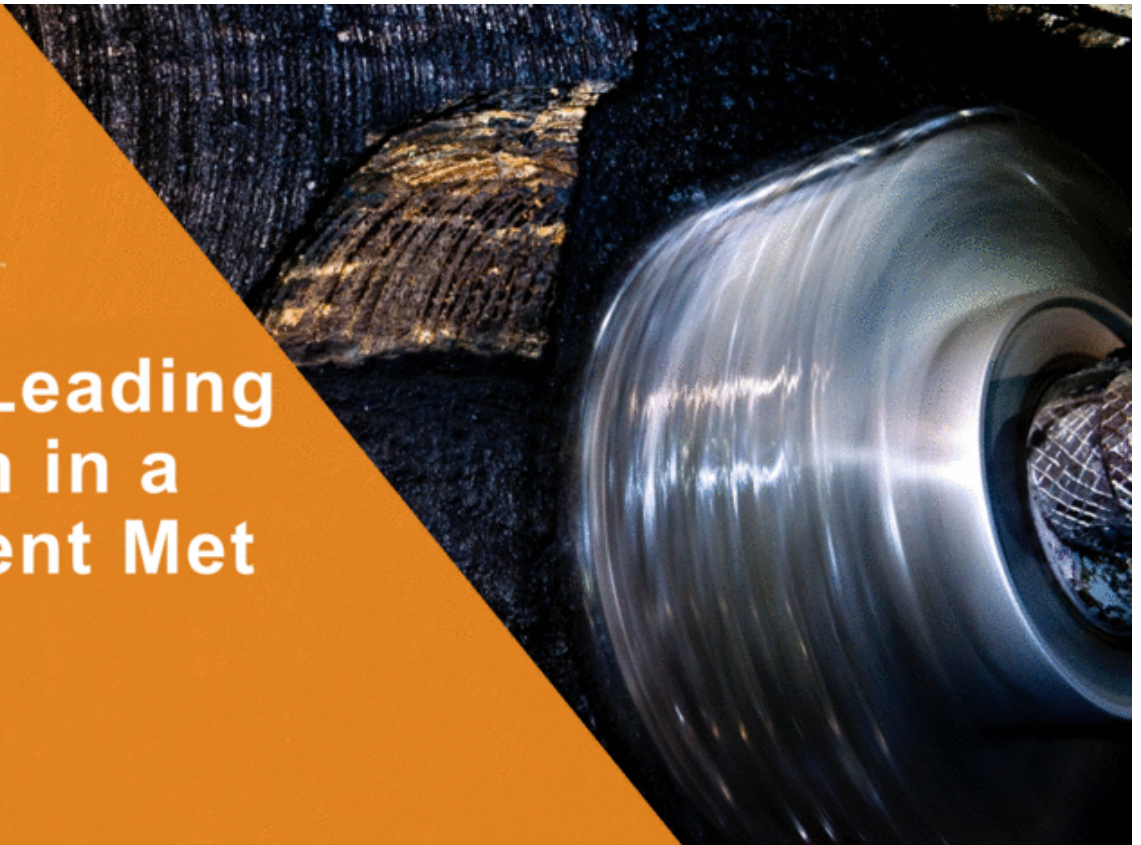
This presentation includes certain non-GAAP financial measures, including, Free Cash Flow, Adjusted EBITDAR, Adjusted EBITDA and cash costs per ton. These non-GAAP financial measures are not measures of financial performance in accordance with generally accepted accounting principles and may exclude 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 in brief

- Arch is a leading producer of metallurgical coal and the second largest producer of thermal coal in the United States
- We have two distinct but complementary lines of business
 - We produce high-quality metallurgical coal in Appalachia for sale into the global steel market
 - We produce highly cost-competitive thermal coal primarily in the Powder River Basin for sale into the U.S. power generation market
- Arch has deep expertise in coal mining, marketing and logistics, and levers those competencies to great effect across these two business lines
- We operate a streamlined portfolio of large, modern, well-capitalized and low-cost mines that can generate free cash flow at all points in the cycle
- Our demonstrated capabilities in mine safety and environmental stewardship underpin our strong operating record and low cost structure

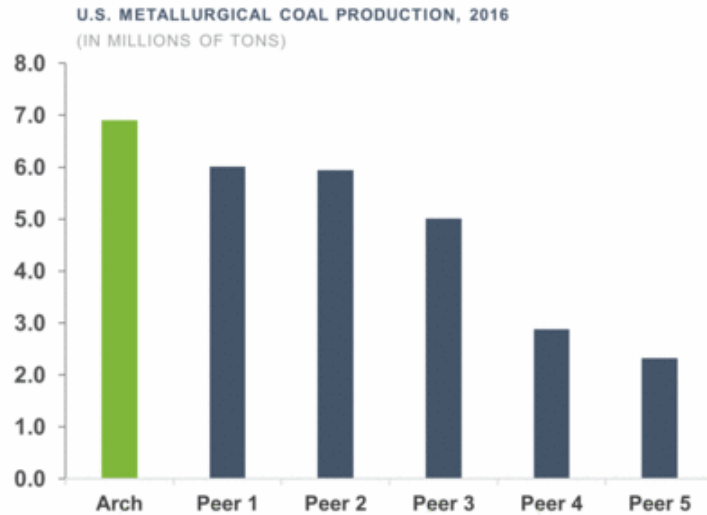


**Arch's Leading
Position in a
Resurgent Met
Market**



Arch is a leading producer of metallurgical coal in the United States

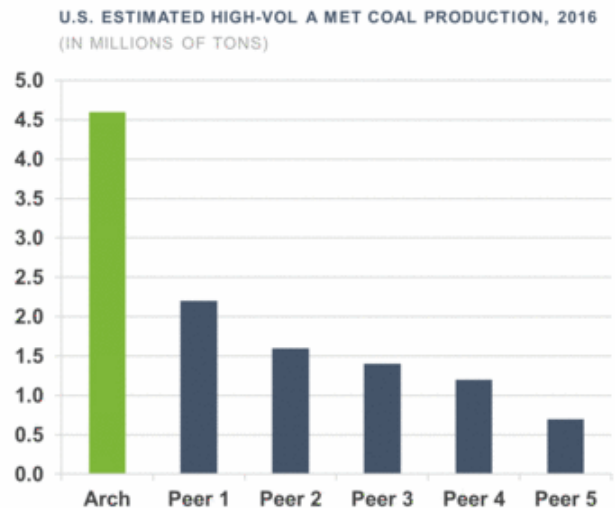
- Arch's mines produce a broad, globally competitive slate of met products
- With significant reserves and a strong pipeline of potential growth projects, our met platform is well-positioned for success
- We expect to produce 6.9 to 7.1 million tons of coking coal in 2017



Source: Arch and MSHA

Note: Arch's total reflects actual met sales. Peer production numbers are estimates and assume 15% of the total volume from identified met mines is sold as thermal byproduct; actual amounts sold by peers could vary significantly from estimates.

Arch operates large, modern, highly efficient metallurgical mines and is the leading producer of High-vol A coking coal

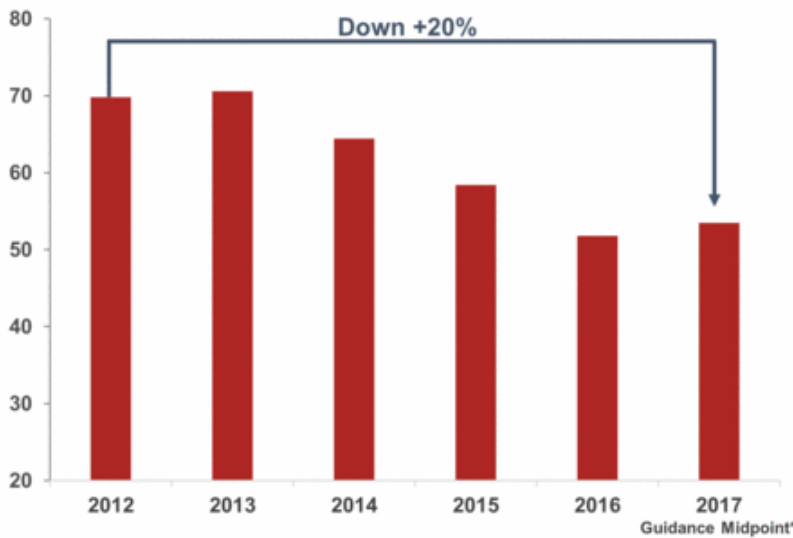


Source: Arch and MSHA

Note: Production includes some percentage of thermal byproduct

Arch has a proven record of managing operational costs

ARCH'S TOTAL METALLURGICAL CASH COSTS
(\$ PER TON)

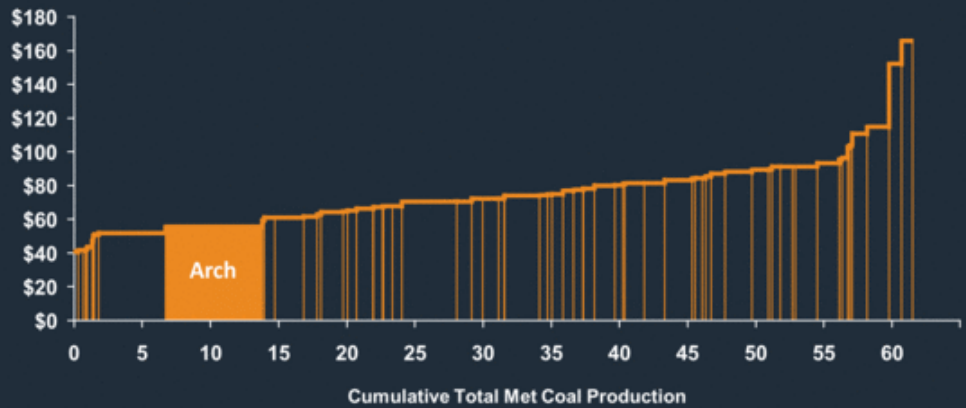


Source: Arch
Note: 2017 guidance midpoint includes coking coal mines only; excludes Lone Mountain

- We have achieved significant cost reductions at our mines in recent years
- As a result, our met mines are among the most cost-competitive in the U.S.
- We expect our metallurgical cash costs to be in the \$51 to \$56 range for 2017 – a level we believe is sustainable moving forward

Along with its premium product slate, Arch's metallurgical portfolio has a highly competitive and sustainable cost structure positioned at the low end of the industry cost curve

ADJUSTED COST CURVE OF U.S. METALLURGICAL COAL SUPPLY
(CASH COST PER METRIC TON, FOB MINE)

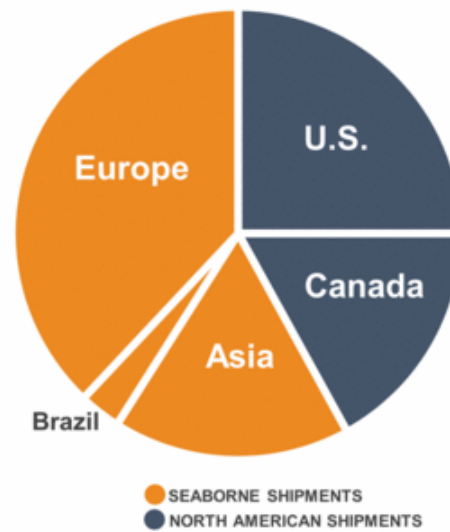


Source: Wood Mackenzie and Arch
Note: Arch's costs reflect 2017 midpoint of cash cost guidance of its four coking coal mines: Beckley, Leer, Mountain Laurel and Sentinel

U.S. metallurgical coals – particularly high-vol products – are a core component of global coke blends

- High-quality, high-vol coals will remain a cornerstone of European coke blends
- Arch is focused largely on the High-vol A segment, and enjoys a quality and freight advantage in the Atlantic Basin relative to Australian supply

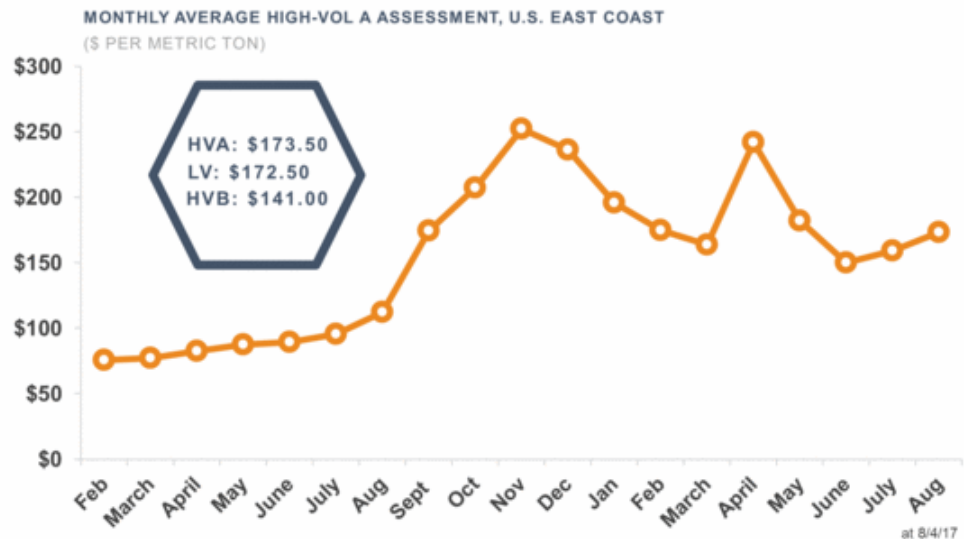
ARCH'S METALLURGICAL SHIPMENTS BY DEMAND REGION, 2016



Source: Arch

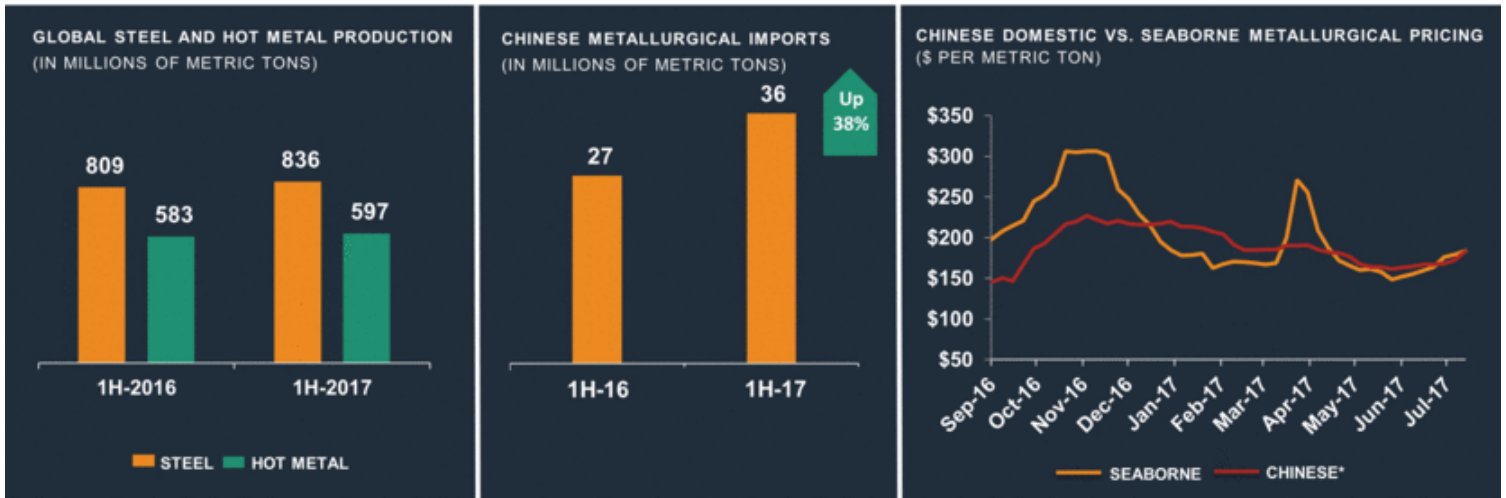
After retracing post the cyclone, metallurgical prices have surged again

- We believe global metallurgical markets remain in healthy balance
- High-Vol A products continue to trade at a premium, reflecting their relative scarcity



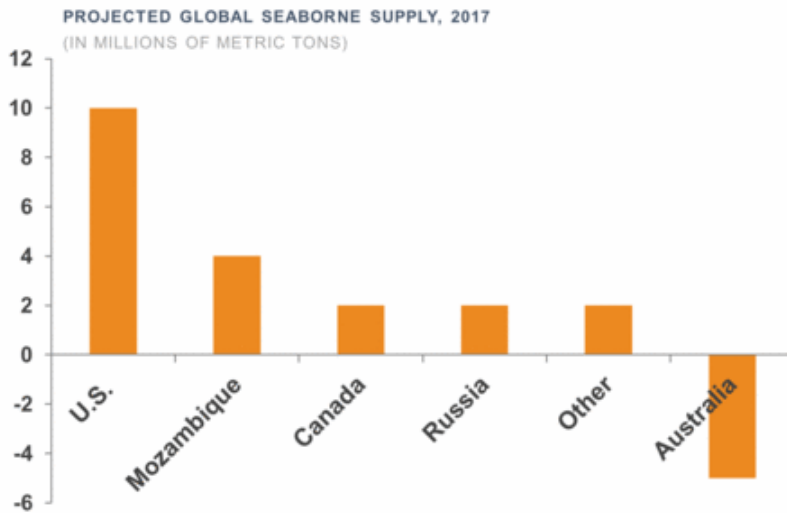
Source: Platts
 Note: Platts Daily Assessments, U.S. East Coast as of August 4, 2017

Global coking coal demand appears well-supported



Source: World Steel Association and Platts
 Note: Domestic Chinese prices are converted to a CFR seaborne equivalent and assessed on a weekly basis

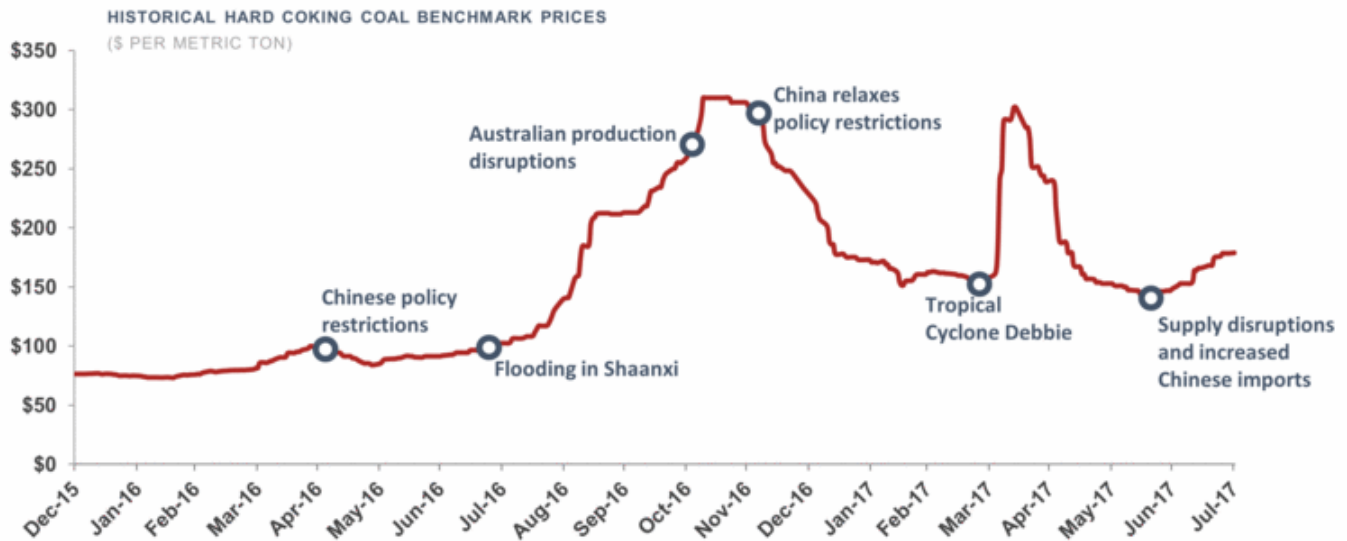
New metallurgical supply is coming into the market in response to recent price strength



Source: Arch

- We are forecasting a 15-million-ton net global supply response in 2017
- Much of the 2017 supply response consists of higher cost production returning to the market
- We believe the market can absorb this additional supply

Even minor supply disruptions have spurred strong moves higher in recent months, suggesting a well-balanced market



Source: Platts and Arch

Arch has extensive, comparable, low-cost reserves adjacent to its flagship Leer mine

- Reserves are comparable in geology and High-Vol A coal quality, and will support decades of mining
- This 130-million-ton adjacent reserve block could support additional longwall operations as well as low-cost room and pillar mining
- Reserves are owned in fee, which greatly enhances development economics



Source: Arch

Arch's Well-Positioned Thermal Coal Franchise

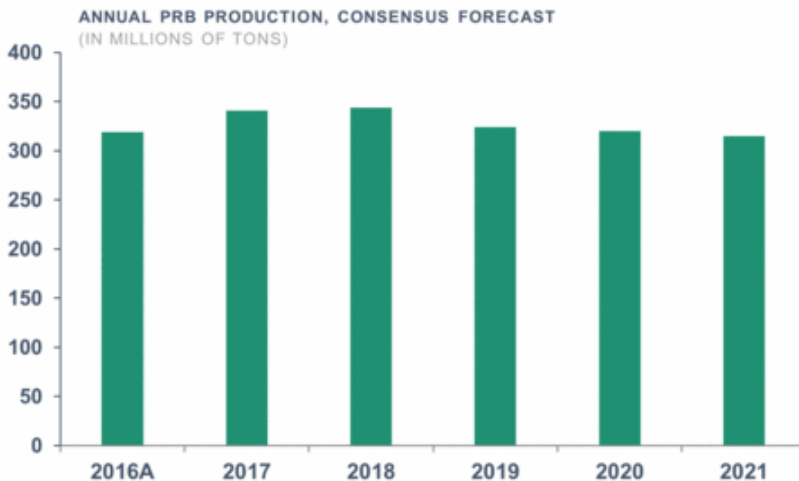


Arch's thermal portfolio is anchored by one of the largest and most efficient thermal mines in the world

- Arch produces the vast majority of its thermal coal from its operations in the Powder River Basin of Wyoming
- The PRB benefits from superior geology and a low emissions profile
- Arch's flagship thermal operation is the low-cost Black Thunder mine
 - Highest heat content coal in the southern PRB
 - Located on the joint rail line
 - Cost-competitively ships coal into every major power generation market in the U.S.
 - Rightsized to produce 70 to 80 million tons annually
- Coal Creek mine rounds out Arch's strong PRB portfolio
 - This low-cost, low-ratio operation is well-positioned on the joint line and serves a stable customer base



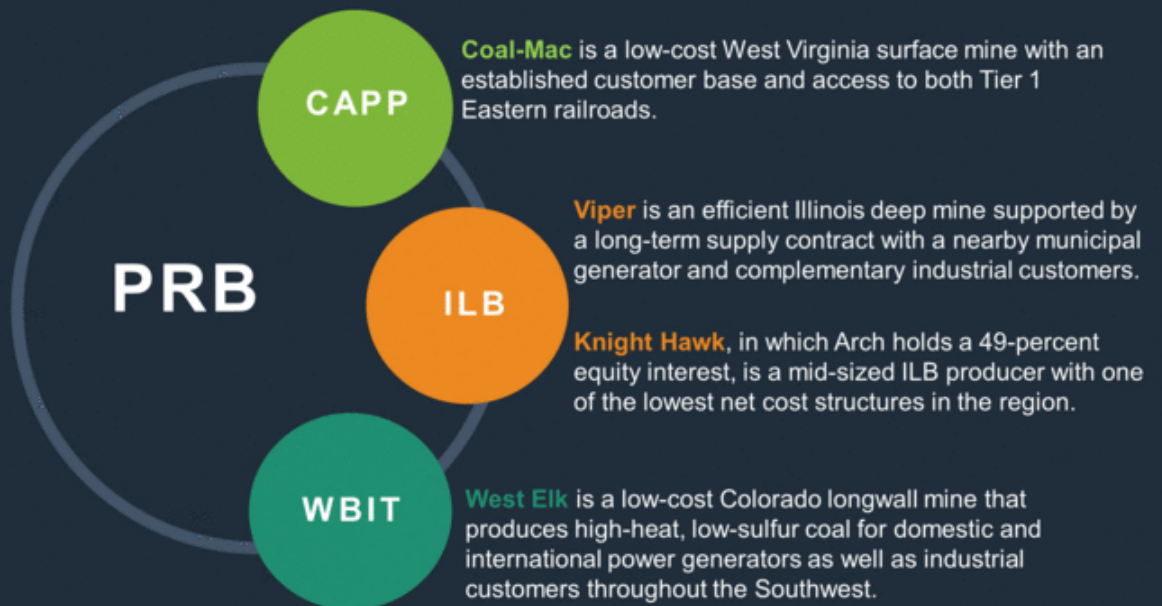
We expect PRB demand to remain sizable and stable in the five-year timeframe



- We expect PRB’s market share to increase modestly at the expense of other basins
- Demand for high-quality 8,800 Btu coal is expected to grow
- Black Thunder’s output is currently approaching 9,000 Btus and is particularly well-positioned

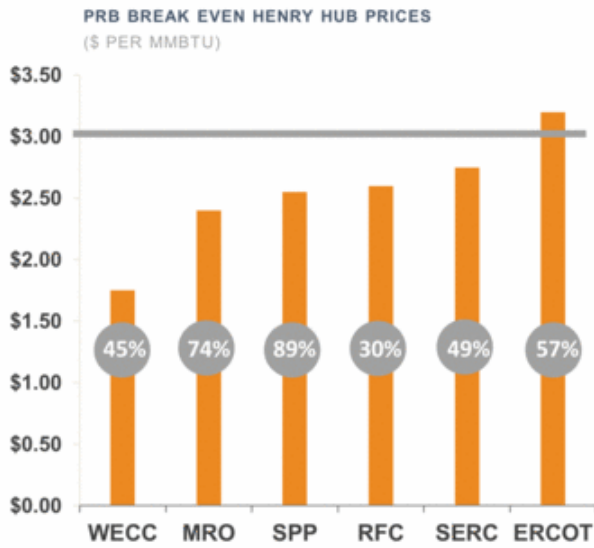
Source: Consensus forecast includes EIA, PIRA, DTC, IHS, EVA and SNL

Arch’s PRB-anchored thermal portfolio is supplemented by low-cost operations in other key basins



Note: 2016 sales volumes: Coal-Mac – 2.1 million tons; Viper – 1.7 million tons; West Elk – 4.2 million tons; Knight Hawk (100%) – 4.5 million tons.

The PRB is well-positioned to compete against natural gas, even in a lower pricing environment



PRB weighted average break even price
Share of PRB in region's coal generation mix

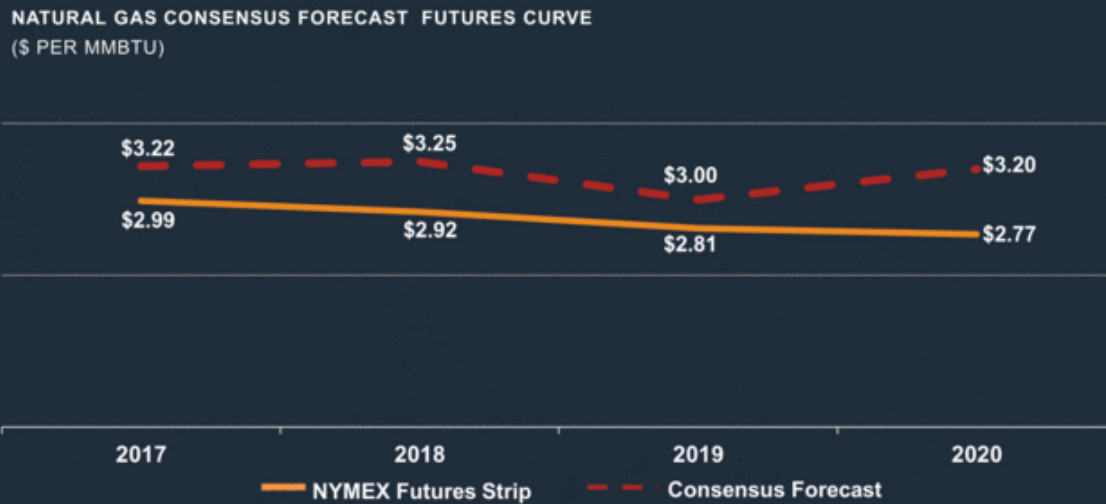
- At \$3 natural gas, the PRB is in the money (on average) in all regions other than Texas (ERCOT), where it's close



Source: Arch, EIA, and Ventyx

Note: Includes estimated transportation charge; incremental non-fuel costs; and appropriate heat rate differentials for NGCC and coal plants

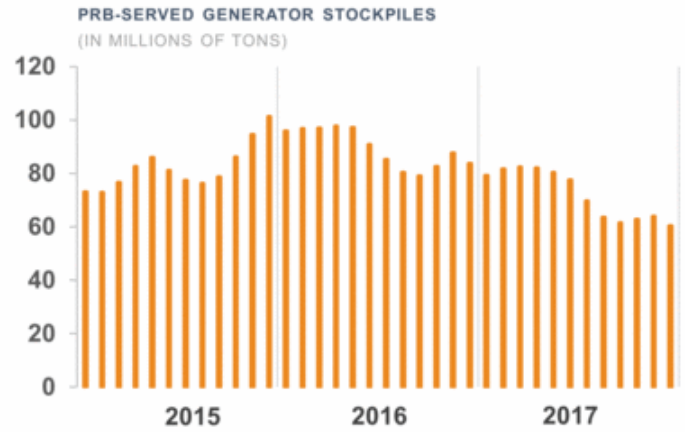
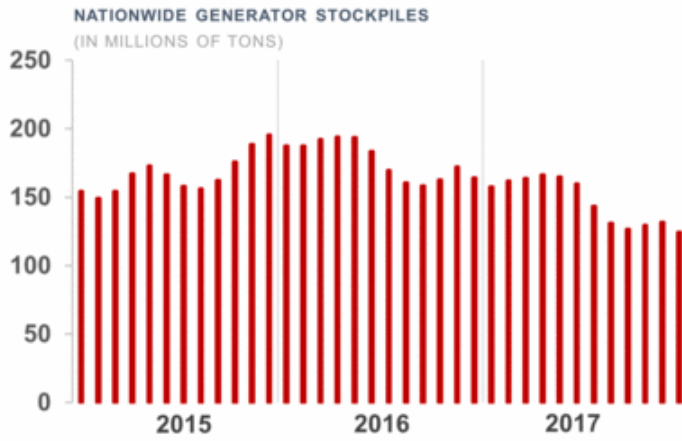
The consensus forecast shows natural gas averaging above \$3 per MMBtu in future years



Source: NYMEX

Note: Consensus includes Credit Suisse, Goldman Sachs, J.P. Morgan, Macquarie, EIA, DTC, PIRA and Wood Mac

Generator stockpiles are still elevated, but liquidation is ongoing

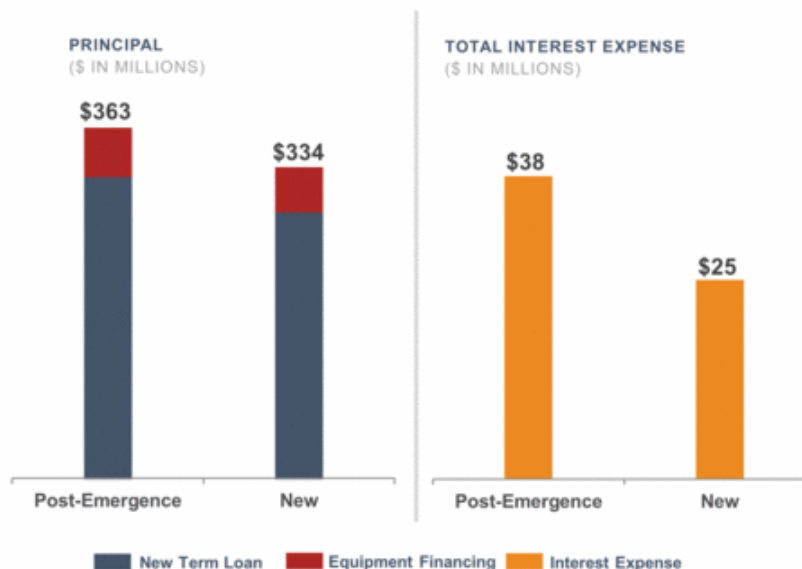


- Assuming normal weather for the remainder of 2017 and relatively stable natural gas pricing, stockpiles could fall below 70 days of supply
- While still above projected target levels, it's a dramatic improvement from year-end 2015



Arch has a strong and simplified capital structure

- Successfully refinanced its senior secured term loan
 - Trimmed debt level by more than \$25 million
 - Reduced annual interest expense by approximately 50 percent
- \$300-million term loan
 - 7-year term (2024)
 - L+400
 - Pre-payable at par
- Cash balance of more than \$490 million at 6/30/2017



Source: Arch

Arch has initiated a capital redeployment plan designed to greatly enhance shareholder value while ensuring sufficient liquidity

- Given Arch's strong balance sheet, modest capital needs, ongoing strategic initiatives and confidence in future cash flows, the company recently announced
 - Recurring quarterly dividend of \$0.35 per share, or \$35 million annually
 - Share repurchase authorization of \$300 million
- Through June 30, 2017, Arch repurchased \$51 million of shares outstanding and paid \$8.6 million in dividends
- Arch expects to continue to make significant and ongoing purchases under the existing authorization

Looking ahead

- Global metallurgical markets are strong, and fundamentals appear supportive going forward
- Domestic thermal fundamentals are steadily improving
- Arch's operations – on both the metallurgical and thermal sides – are sustainable through all points of the cycle
- Our financial position is rock-solid and cash requirements should remain modest for the foreseeable future
- We have implemented a robust cash return policy that we believe will drive significant value for shareholders
- We have an exceptional Appalachian reserve position with some of the industry's best undeveloped metallurgical properties



August 2017

ArchCoal™

Investor Presentation