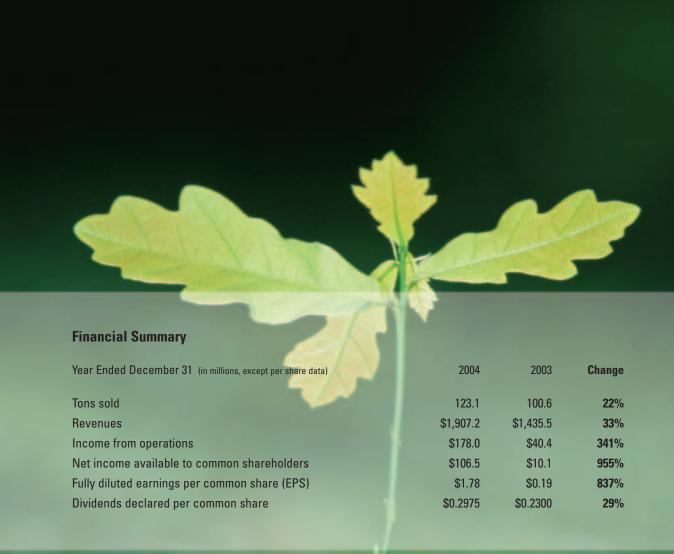
12 WAYS WE ARE GROWING RESPONSIBLY





Arch Coal is the nation's second largest coal producer. Our core business is providing U.S. power generators with clean-burning, low-sulfur coal for electric generation. Through our national network of mines, we supply the fuel for approximately 7% of the nation's electricity. We are also a recognized leader in mine safety and land reclamation. Arch Coal maintains its headquarters in St. Louis and our stock is traded on the New York Stock Exchange under the ticker symbol ACI. For more information, visit us at www.archcoal.com.

1.

GROWING THROUGH SELECTIVE ACQUISITIONS

2.

FOCUSING ON STRATEGIC BASINS

3.

EMPHASIZING THE CLEANEST-BURNING COALS

4.

BUILDING WORLD-CLASS OPERATIONS

5

SEIZING OPPORTUNITIES

6.

INVESTING IN OUR PEOPLE

7.

STRENGTHENING OUR POSITION

8.

EMPLOYING LEADING-EDGE TECHNOLOGIES

9.

TAPPING OUR EXTENSIVE RESERVE BASE

10.

MAINTAINING A STRONG BALANCE SHEET

11.

MEETING OUR CUSTOMERS' CHANGING NEEDS

12.

ACTING AS CAREFUL STEWARDS OF THE LAND

As the theme of this report suggests, Arch Coal grew in every conceivable way during 2004.

We boosted production via strategic acquisitions. We expanded our coal holdings through reserve additions. We initiated the development of new mines in key basins. We achieved growth in operating margins, income from operations and earnings per share.

Moreover, your company grew in all the right ways. We stuck to what we do best—mining and marketing coal. We built on our leadership positions in highly strategic basins. We maintained our focus on the cleanest-burning, lowest-sulfur coals. We grew strategically, opportunistically and—above all—responsibly.

Arch pursued such growth only after much preparation. Since completing several major acquisitions in 1998, we had pursued a disciplined strategy of shoring up our balance sheet and enhancing our financial flexibility. Thus, when opportunity arose—as it did repeatedly in 2004—we were ready.

Our timing was impeccable. After climbing throughout 2004, coal prices in many basins ended the year at near historic highs—and the outlook for U.S. and world coal markets is exceptionally strong. With each passing year, it becomes increasingly clear that we will build the economy of the future on coal-fired electricity. I'm pleased to report that—after the excellent progress of 2004—your company is better positioned than ever to thrive in such an exciting environment.

GETTING STRONGER ON ALL FRONTS

By the time 2004 came to a close, we had committed—or announced plans to commit—\$1.2 billion of capital on growth initiatives. We expanded our reserve base by 30%, boosted pro-forma sales volume by approximately 40% via consolidating acquisitions, and laid the foundation for future organic growth. We also created a wealth of acquisition-related operating synergies that we expect to take to the bottom line in 2005 and thereafter. We are confident that the initiatives launched during 2004 will deliver attractive returns and tremendous value for our shareholders in the years ahead.

POWDER RIVER BASIN. In August, Arch augmented its already strong position in the PRB via two major transactions. First, we acquired North Rochelle, the seventh largest U.S. coal mine, and integrated it into our world-class Black Thunder operation. Then, a month later, we added 719 million tons of high-quality, super-compliance coal contiguous to Black Thunder with our winning bid for the Little Thunder federal coal lease. These initiatives greatly strengthen our competitive position in the largest and fastest-growing U.S. coal supply region. With its exceptional geology and ultra-low-sulfur coal, the PRB is poised to capture the lion's share of new demand growth over the next decade. In 2004, more than 20 U.S. power plants tried PRB coal for the first time—and many more are likely to follow suit in 2005.

"We are confident that the initiatives launched during 2004 will deliver attractive returns and tremendous value for our shareholders in the years ahead."

WESTERN BITUMINOUS REGION. In July, we solidified our status as the No. 1 producer in the Western Bituminous Region through the acquisition of the remaining 35% of our Utah subsidiary. Then, in early 2005, we announced plans to develop a new mine—with targeted production of three million tons annually—on what we believe to be one of the region's best untapped longwall reserves. Coal from the Western Bituminous Region, once a niche regional supply source, is increasingly prized as a high-Btu, low-sulfur substitute for supply-constrained Eastern coal. As a result, demand for such coal has boomed and spot pricing has doubled over the course of the past year.

CENTRAL APPALACHIA. In 2004, Arch announced plans to develop a five-million-ton-per-year longwall mine in southern West Virginia—the biggest expansion project in the region in recent years. The new mine complex, Mountain Laurel, is being established on one of the few large, undeveloped reserve blocks remaining in Eastern low-sulfur coal fields. When the mine ramps up to



Steven F. Leer, President and CEO

full production in 2007, we expect it to be the centerpiece of our Central Appalachian operations and one of the lowest-cost mines in the region. Nowhere are market dynamics stronger than in Central Appalachia, the principal source of low-sulfur coal east of the Mississippi River. Coal production in the region has fallen precipitously in recent years as producers grapple with reserve degradation, regulatory challenges and a labor shortage. As a result, demand is outpacing supply—and prices have soared in response.

MAINTAINING OUR SOUND FINANCIAL FOOTING

Even after our dramatic growth, we ended the year with one of the industry's strongest balance sheets. We had built a solid foundation for expansion before the year began and continued to lay that groundwork into the first half of 2004. We paid down debt, divested non-strategic assets and built a large cash position. We supplemented those efforts in October 2004 with the sale of 7.2 million shares of stock that helped us maintain a balanced capital structure. We also completed a \$250 million bond offering to replace our non-public debt.

At year end, our ratio of debt to total capitalization stood at 48%—a very manageable level for us, and 36 percentage points lower than it was just four years ago. Moreover, we locked in an effective and highly competitive interest rate of 6.75% on virtually all of our debt through 2013. We are confident that we have the financial flexibility to fund our current organic growth plans and to capitalize on any new opportunities that arise.

FOCUSING ON IMPROVING RETURNS

But expanding our size and scope was just one of the many achievements of 2004. Of equal importance, we made good progress across the whole range of financial metrics. Revenues increased 33%, income from operations climbed 341%, and EPS rose nine-fold to \$1.78. We view these improved results as a first step in what we expect to be a sustained period of upward momentum in our financial results. We expect revenues and margins to increase significantly as the vast majority of our planned production resets to market-based pricing over the course of the next three years.

Arch is taking a patient approach in today's market environment. We have yet to price 60 to 70 million tons of our planned production in 2006, and 110 to 120 million tons of our planned production in 2007. We expect to have ample opportunity to layer in attractive new commitments in future periods.

CAPITALIZING ON A STRONG INDUSTRY OUTLOOK

Coal has tremendous advantages as a fuel source for electric generation—including its abundance, reliability and attractive economics. Those advantages have become even more pronounced in recent years as other key fuel sources for electric generation have encountered daunting barriers to future growth. U.S. nuclear plants are operating at near capacity levels. Natural gas production in North America appears to be approaching a plateau. The construction of new hydroelectric dams is unlikely.

In response, power generators are taking steps to facilitate greater coal use. With the tripling in the price of natural gas in recent years, utilities already have a powerful economic incentive to maximize output at their existing coal-fired plants. In addition, plans are under way to add as much as 65,000 megawatts of new and ultra-clean coal-fired capacity over the course of the next few years—additions that would increase the installed base by 20%.

Near-term market fundamentals are equally attractive. In 2004, coal consumption outstripped production for the second year in a row and stockpiles at U.S. power plants ended the year roughly 15% below the five-year average. Furthermore, a resurgence in global steel markets has greatly boosted requirements for metallurgical coal. Coal producers are struggling to keep pace with this robust demand equation.

PURSUING EXCELLENCE IN SAFETY AND ENVIRONMENTAL STEWARDSHIP

While Arch accomplished great things in 2004, I am most proud of our achievements in safety and environmental stewardship. We have an unwavering commitment to excellence in these areas that pervades everything we do.

That commitment was very much on display in 2004. We had a record safety performance, with 1.4 lost-time incidents per 200,000 employee-hours worked. That's a nearly 30% improvement over 2003, and more than two times better than the industry average. While we are pleased with these results, we are not satisfied. We remain focused on our ultimate goal: an entirely injury-free workplace.

In recent years, Arch has won dozens of national and state awards for reclamation excellence—and 2004 was no exception. In September, we were honored by the U.S. Department of the Interior with the Director's Award—the nation's highest tribute for land reclamation. We also claimed the state of West Virginia's top reclamation honor for the fourth year in a row. These accolades are indicative of

our ongoing efforts to mine the land in the most environmentally responsible manner—and to restore it to a natural and productive state once mining is complete.

OFFERING A UNIQUE VALUE PROPOSITION

At the writing of this letter, Arch's stock price had increased by 43% since the beginning of 2004. Last year was the fifth year in a row that our stock outperformed the S&P 500. We believe there is potential for even greater value creation in the years ahead. In many respects, we have built the ideal company for the current market environment. Arch is positioned to capitalize on each of the core market opportunities in the U.S. coal sector.

- 1 **DEMAND GROWTH:** We are a leading producer in the Powder River Basin, which is likely to be the epicenter of coal industry growth.
- 2 SUPPLY PRESSURES: We have high-quality assets in Central Appalachia, where demand exceeds supply and pricing has been most robust.
- 3 LOW-SULFUR PREMIUMS: We are a producer of low-sulfur coal exclusively, and thus are positioned to capitalize on the quadrupling in the price of sulfur dioxide emission allowances since the beginning of 2003.
- **4 METALLURGICAL DEMAND**: Nearly one quarter of our Central Appalachian production has the flexibility to move into metallurgical markets, where tremendous premiums are being earned.

Taken together, these stories add up to a compelling investment proposition.

CREATING SHAREHOLDER VALUE

We believe the U.S. coal industry is at the outset of a long and sustained run. Coal is back in favor with U.S. power generators, a new generation of coal plants is moving forward, and revolutionary new combustion technologies are drawing closer to reality. With our innovative workforce, world-class mines and highly strategic reserve base, Arch Coal is uniquely positioned to excel in such an environment.

Looking ahead, we will focus on what I consider to be the three essential components for success in the U.S. coal industry: safe operations, environmental stewardship and strong financial performance. If we can excel in all three areas, I am confident that we will deliver tremendous value for you—our shareholders. The next few years should be exciting ones for your company. We will continue to strive every day to earn your support, your investment and your trust.

Sincerely,

Steven F. Leer

President and CEO

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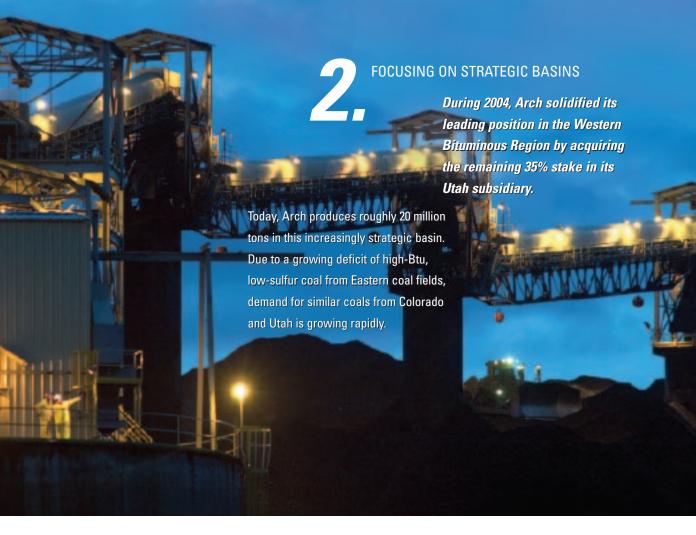
February 25, 2005



During 2004, we completed acquisitions that boosted our reserve base by 30% and our sales volume by 40% on a pro forma basis. In doing so, we built upon leading positions in strategic coal basins where we have proven expertise, unique synergy opportunities and strong customer relationships.



2003



3.EMPHASIZING THE CLEANEST-BURNING COALS

At Arch Coal, we produce only the cleanest-burning coals America has to offer.

That strategic focus is proving to be highly advantageous. In the past two years, the premium that lower-sulfur coals receive in the marketplace has climbed markedly in response to a quadrupling in the price of sulfur dioxide emission allowances. Equally significant is the fact that the use of low-sulfur coals has helped U.S. power generators reduce targeted emissions by 50% over the past three decades, despite a tripling in coal use over that same time frame.



5.

SEIZING OPPORTUNITIES

Arch is a market-driven company adept at responding to changes in the marketplace.

In recent months, world steel markets have boomed, driving up demand for metallurgical quality coal. In response, Arch doubled its met sales in 2004, and expects an additional 50% increase in 2005. Arch has the flexibility to divert even more tons into the met market in the days ahead, or to shift those tons back into the power generation market should such a strategy prove more advantageous.

6.

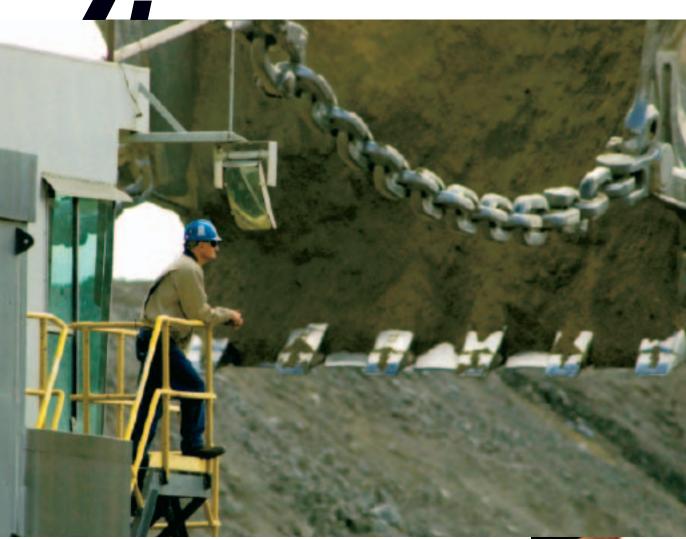
INVESTING IN OUR PEOPLE

Arch's employees are among the most skilled and dedicated in the industry. Their commitment to excellence enables Arch to operate some of the industry's most efficient mines. On average, our mines produce 25% more coal per employee shift than our regional competitors. Our employees also have made Arch one of the nation's safest coal operators, with a safety record more than two times superior to the industry average.

STRENGTHENING OUR POSITION IN THE FASTEST-GROWING U.S. SUPPLY REGION

Arch further augmented its leading position in the Powder River Basin in 2004.

With the addition of the North Rochelle mine and the Little Thunder federal coal lease, Arch expanded its PRB reserves by more than 900 million tons and its productive capacity by more than 25 million tons. Demand for PRB coal has doubled in the past 12 years, and we expect this rapid growth to continue.



EMPLOYING LEADING-EDGE TECHNOLOGIES

Arch excels at running large, modern mines employing highly advanced mining technologies. That focus enables us to run some of the industry's lowest-cost operations. Arch is a leader in the use of GPS-enhanced truck dispatch systems, nuclear coal analyzers, highly efficient longwall mining equipment, and some of the largest land-

based machines in the world.



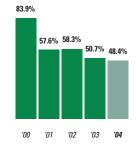


10.

MAINTAINING A STRONG BALANCE SHEET

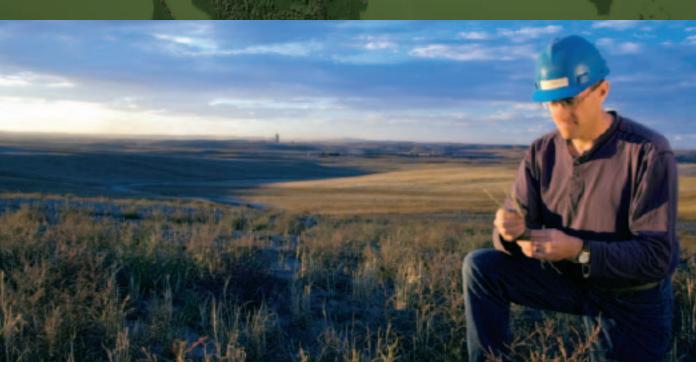
Even after our aggressive growth initiatives in 2004, we boast one of the industry's strongest balance sheets.

Debt as a Percentage of Capitalization (at year end)





industry's most innovative, reliable and ethical coal suppliers.



ACTING AS CAREFUL STEWARDS OF THE LAND

Year after year, Arch helps pioneer advances in the

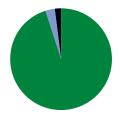
science of land reclamation. During 2004, Arch was honored by the U.S. Department of the Interior with the Director's Award, the nation's most prestigious award for land reclamation. Since 2000, Arch has planted 1.2 million trees and created more than 200 acres of new wetlands on its reclaimed Eastern mine sites.

12.

Electricity demand (U.S. electricity generation in billions of kilowatt-hours)

3,850 The U.S. becomes more electrified every year. (Source: EEI) 1954

U.S. energy resources



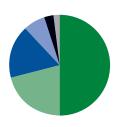
95% COAL

3% NATURAL GAS

2% CRUDE OIL

Coal is America's most abundant domestic fuel source. (Source: EIA)

Fuel shares for electric generation



50% COAL 7% HYDROELECTRIC 20% NUCLEAR 3% RENEWABLES

18% NATURAL GAS

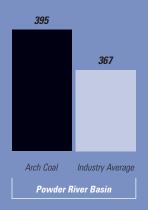
2% CRUDE OIL

Coal is the dominant fuel source for electric generation in the United States. (Source: EIA)

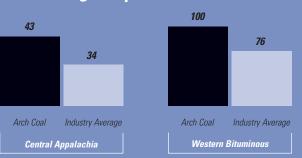
New plant announcements (in gigawatts)

U.S. power generators have announced plans to boost coal-fired capacity by more than 20% in coming years. (Source: Platts)

Productivity Tons per employee-shift (rolling 12-month average at 9/30/04)



Arch is one of the nation's most productive coal mining companies. (Source: MSHA/Platts)



Competing fuel prices (average U.S. generating costs from Jan-Oct 2004 in dollars per megawatt-hour)

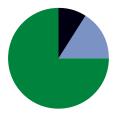
Coal is the logical source for additional electric power due to its compelling economics. (Source: Platts)

\$14.09 COAL

\$47.78 CRUDE OIL

\$51.97 NATURAL GAS

Vast low-sulfur reserves



The vast majority of Arch's 3.7 billion tons of reserves meet the most stringent standards of the Clean Air Act without the application of expensive scrubbing technology.

75% COMPLIANCE Compliance: ≤ 1.2 lbs. of SO₂/mm Btu 16% LOW SULFUR Low sulfur: 1.21-1.59 lbs. of SO₂/mm Btu

9% HIGH SULFUR

High sulfur: ≥ 1.6 lbs. of SO₂/mm Btu

Safety 2004 Lost-time incident rates (per 200,000 employee-hours)

Arch's safety record ranks among the best in the industry.

Arch Coal

*Source: MSHA Mine Injury & Worktime Statistics for Q1-Q3 2004

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*Committee Chair

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