

Arch Coal, Inc. Product Guide

Powering The Working World



Arch Coal, Inc.



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Arch Coal, Inc.
A recognized leader in mine safety and environmental compliance, U.S.-based Arch Coal, Inc. (NYSE: ACI) is one of the world's largest and most efficient coal producers, with 179 million tons sold pro forma in 2010. We primarily supply cleaner-burning, low-sulfur coal to power producers and steel manufacturers on four continents. Through 23 mining complexes in eight states, we represent roughly 16 percent of America's coal supply. Our national scope of operations located in every major coal supply region makes us the most diversified U.S. coal producer and marketer.

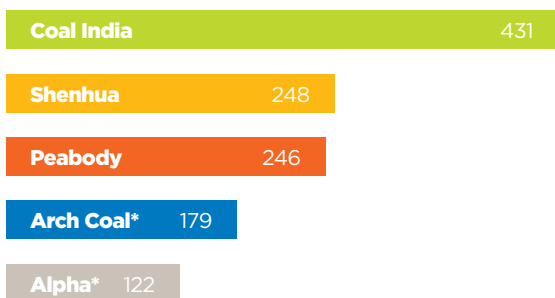
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A Message from the Chairman & Chief Executive Officer



Thank you for considering Arch Coal. As a top-five global coal producer and marketer, we're proud to be a preferred-choice fuel supplier for power producers and steel manufacturers around the world. Arch Coal's portfolio of steam, coking and PCI coal products and blending solutions deliver measurable advantages, making our customers even stronger players in today's power and steel markets. With a presence in every major U.S. coal supply basin, we can serve customers from every major U.S. rail system with excellent access to river terminals and overseas port facilities.

Top Five Global Coal Producers (in millions of short tons, 2010)



Data gathered from publicly available sources.

*Pro forma 2010.

Our two dozen mining complexes work around the clock to meet quality specifications and delivery deadlines no matter where your final destination may be. What's more, as the second largest U.S. coal reserve holder, we are a reliable producer for energy supply needs now and well into the future. We would be honored to show you how our dependability can help improve your bottom line.

Steven F. Leer

Chairman and Chief Executive Officer
Arch Coal, Inc.

Vision/Core Values

Arch Coal, Inc.

We strive to create superior customer and shareholder value as one of the safest, lowest-cost and most environmentally responsible suppliers of coal-based energy in the world.

Safety

We are constantly striving to improve upon our industry-leading safety performance in an effort to achieve perfection.

**Environmental Care**

We go to great lengths to respect the environment and are committed to making coal an increasingly clean and responsible energy resource.

**Prosperity**

We support our stakeholders by supplying affordable and reliable energy, providing thousands of jobs and backing charitable pursuits.



Maps

Powering the Working World

Arch Coal, Inc.

Global coal consumption reached nearly 8 billion tons in 2010, having expanded by a record 3 billion tons in the past decade. China alone boosted its coal consumption from 1.3 billion tons in 2000 to 3.5 billion tons in 2010. Given current rates, global coal use could well increase another 3 billion tons in the next decade. In fact, by 2015, the world currently plans to add at least another 1.4 billion tons to annual coal demand.

Arch Coal holds the most diversified position among U.S. coal producers, allowing us to serve customers from every major coal supply region.

Growing Global Demand




Source: World Coal Association: *Coal and Society*

Visit us at responsible.archcoal.com and youtube.com/archcoalcares

Maps

Global Seaborne Coal Trade

World Trade Routes and Distances (Approximate distances in nautical miles)

	EUROPE	N.E. ASIA	S.E. ASIA	S. ASIA	S. AMERICA	
N. AMERICAN ORIGIN	ARA	CHIBA, JAPAN	SHANGHAI, CHINA	MUNDRA, INDIA	PRAIA MOLE, BRAZIL	TOCOPILLA, CHILE
EAST COAST	3,448	9,508 ^a	10,141 ^a	8,190 ^b	4,310	3,881 ^a
WEST COAST	8,878 ^a	4,285	5,103	9,839	7,938 ^a	5,505
GULF COAST	4,744	9,126 ^a	9,759 ^a	9,322	4,788	3,499 ^a

^aRouted through the Panama Canal. ^bRouted through the Suez Canal

Arch will play a growing role in the global seaborne met and thermal coal trade, with access to U.S. ports off the East, West and Gulf Coasts.



Maps

U.S. Operations and Transportation Options

Coal Export Options - North America

PORT	LOCATION	TRANSPORTATION
EAST COAST		
Curtis Bay	Baltimore, Maryland	CSX, NS
DTA	Norfolk, Virginia	CSX
Fairless	Philadelphia, Pennsylvania	CSX, NS
Lamberts Point	Norfolk, Virginia	NS
Pier IX	Norfolk, Virginia	CSX
Shipyards Terminal*	Charleston, South Carolina	CSX, NS
INLAND WATERWAY TERMINALS		
Arch Coal Terminal (ACT)	Catlettsburg, Kentucky	Truck, Barge
CMS Dock	Sauget, Illinois	UP, KC, Truck, Barge
Cora Dock	Cora, Illinois	UP, Truck, Barge
Kellogg Dock	Kellogg, Illinois	UP, Barge
MERC Terminal	Superior, Wisconsin	UP, BNSF, Barge, Vessel

PORT	LOCATION	TRANSPORTATION
WEST COAST		
Guaymas	Guaymas, Mexico	Ferromex
Long Beach	Long Beach, California	UP, BNSF
Millennium Bulk*	Longview, Washington	UP, BNSF
Richmond-Levin	Richmond, California	UP, BNSF
Ridley	Prince Rupert, BC Canada	UP, BNSF, CN
Stockton	Stockton, California	UP, BNSF
Westshore	Roberts Bank, BC Canada	BNSF
GULF COAST		
Corpus Christi	Corpus Christi, Texas	UP, BNSF
Gulf Coast-Stevedores	New Orleans, Louisiana	Barge
Houston Bulk Terminal	Houston, Texas	UP, BNSF
International Marine Terminal	Myrtle Grove, Louisiana	Barge

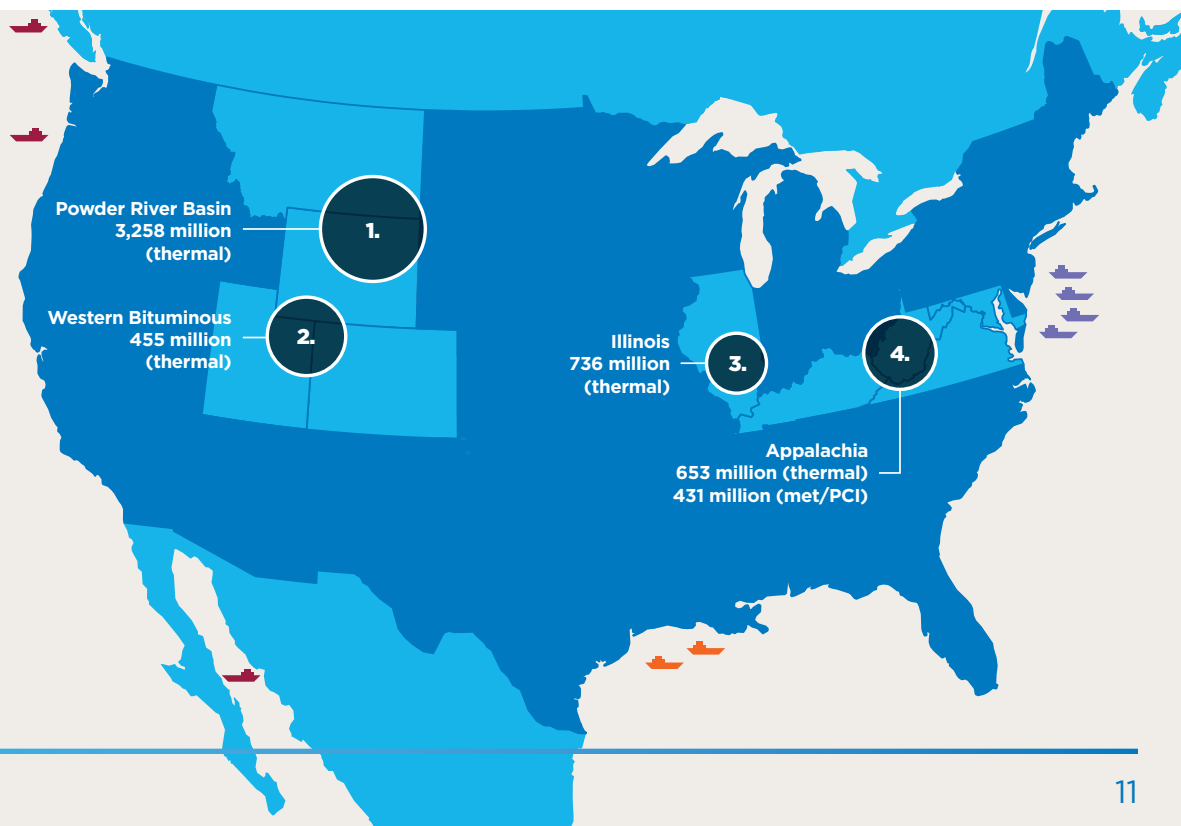
*Under construction or planned

Arch is the No. 2 reserve holder in the U.S. with a 5.5-billion-ton reserve base

(Pro forma reserves at 12/31/10)

Domestic Reserve Base

1. Powder River Basin
3,258 million (thermal)
2. Western Bituminous
455 million (thermal)
3. Illinois
736 million (thermal)
4. Appalachia
653 million (thermal)
431 million (met/PCI)



Coal Operations & Products

The Power to Transform

Arch Coal, Inc.

Arch Coal's reserves stretch nearly coast-to-coast, allowing us to meet future coal demand inside and outside America's borders. Our coal shipments are regionally balanced across the nation's four major railroads, while our investments in river terminals in Kentucky and Illinois grant us flexibility to transport coal

on the nation's inland waterways. In addition, our equity investments in marine terminals on the East, West and Gulf Coasts along with throughput opportunities at ports in Virginia, Louisiana, California, Texas, South Carolina and British Columbia, Canada – provide access to the growing seaborne metallurgical and steam coal trade.

Coking Coal

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PCI Coal

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Thermal Coal

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We're committed to your #1 goal of providing dependable, affordable electricity or finished, quality steel products to your customers.

Find out how our dependability can improve your bottom line. Call Arch Coal today at 1.800.282.2724.

Coking Coal: Appalachia Arch Low Volatile Blend

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	Air Dried %	Air Dried %	Dry %	Air Dried %	Dry %	Air Dried %	Dry %
7.00	3.74	7.46	7.75	0.78	0.81	16.03	16.65

CALORIFIC VALUE		GIESELER PLASTOMETER	ARNU DILATATION	REFLECTANCE (MEAN/MAX)
Gross	Net	DDPM	%	%
14,452 BTU/ 8,030 kcal/kg	14,005 BTU/ 7,782 kcal/kg	18	24	1.59

TRANSPORTATION: CSX RR

Coking Coal: Appalachia Beckley

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	Air Dried %	Air Dried %	Dry %	Air Dried %	Dry %	Air Dried %	Dry %
7.50	5.21	6.70	7.07	0.78	0.82	15.80	16.67

CALORIFIC VALUE		GIESELER PLASTOMETER	ARNU DILATATION	REFLECTANCE (MEAN/MAX)
Gross	Net	DDPM	%	%
14,629 BTU/ 8,128 kcal/kg	14,185 BTU/ 7,882 kcal/kg	30	25	1.66

TRANSPORTATION: CSX RR

Coking Coal: Appalachia Vindex Energy

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	Air Dried %	Air Dried %	Dry %	Air Dried %	Dry %	Air Dried %	Dry %
7.50	5.56	9.00	9.53	0.84	0.89	18.03	19.09

CALORIFIC VALUE		GIESELER PLASTOMETER	ARNU DILATATION	REFLECTANCE (MEAN/MAX)
Gross	Net	DDPM	%	%
13,937 BTU/ 7,743 kcal/kg	113,482 BTU/ 7,491 kcal/kg	13	12	1.55

TRANSPORTATION: CSX RR

Coking Coal: Appalachia Tygart Valley

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	Air Dried %	Air Dried %	Dry %	Air Dried %	Dry %	Air Dried %	Dry %
6.50	3.82	7.21	7.50	1.06	1.10	30.78	32.00

CALORIFIC VALUE		GIESELER PLASTOMETER	ARNU DILATATION	REFLECTANCE (MEAN/MAX)
Gross	Net	DDPM	%	%
14,202 BTU/ 7,891 kcal/kg	13,702 BTU/ 7,613 kcal/kg	30,000	300	1.05

TRANSPORTATION: CSX RR

Coking Coal: Appalachia Sentinel

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	Air Dried %	Air Dried %	Dry %	Air Dried %	Dry %	Air Dried %	Dry %
7.00	4.97	8.55	9.00	1.24	1.30	31.84	33.50

CALORIFIC VALUE		GIESELER PLASTOMETER	ARNU DILATATION	REFLECTANCE (MEAN/MAX)
Gross	Net	DDPM	%	%
14,130 BTU/ 7,851 kcal/kg	13,626 BTU/ 7,571 kcal/kg	30,000	300	1.01

TRANSPORTATION: CSX RR

Coking Coal: Appalachia Buckhannon Sawmill

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	Air Dried %	Air Dried %	Dry %	Air Dried %	Dry %	Air Dried %	Dry %
7.00	3.92	10.09	10.50	1.10	1.15	34.11	35.50

CALORIFIC VALUE		GIESELER PLASTOMETER	ARNU DILATATION	REFLECTANCE (MEAN/MAX)
Gross	Net	DDPM	%	%
13,790 BTU/ 7,662 kcal/kg	13,269 BTU/ 7,373 kcal/kg	30,000	235	0.91

TRANSPORTATION: CSX RR

Coking Coal: Appalachia Pardee Complex

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	Air Dried %	Air Dried %	Dry %	Air Dried %	Dry %	Air Dried %	Dry %
7.00	3.10	6.78	7.00	0.82	0.85	35.17	36.30

CALORIFIC VALUE		GIESELER PLASTOMETER	ARNU DILATATION	REFLECTANCE (MEAN/MAX)
Gross	Net	DDPM	%	%
14,300 BTU/ 7,945 kcal/kg	13,786 BTU/ 7,626 kcal/kg	28,000	160	0.95

TRANSPORTATION: NS RR

Coking Coal: Appalachia Mountain Laurel Complex

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	Air Dried %	Air Dried %	Dry %	Air Dried %	Dry %	Air Dried %	Dry %
7.00	2.90	6.31	6.50	0.82	0.85	35.44	36.50

CALORIFIC VALUE		GIESELER PLASTOMETER	ARNU DILATATION	REFLECTANCE (MEAN/MAX)
Gross	Net	DDPM	%	%
14,300 BTU/ 7,945 kcal/kg	13,860 BTU/ 7,685 kcal/kg	27,000	163	0.93

TRANSPORTATION: CSX RR

PCI Coal: Appalachia Pardee Complex

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	Air Dried %	Air Dried %	Dry %	Air Dried %	Dry %	Air Dried %	Dry %
6.75	3.41	7.00	7.25	0.87	0.90	33.57	34.75

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING, INITIAL Degrees C/Degrees F	CARBON (ULTIMATE ANALYSIS) Dry %
Gross	Net		
14,200 BTU/ 7,890 kcal/kg	13,688 BTU/ 7,607 kcal/kg	1,538/2,800	82.10

TRANSPORTATION: NS RR

PCI Coal: Appalachia Lone Mountain

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	Air Dried %	Air Dried %	Dry %	Air Dried %	Dry %	Air Dried %	Dry %
6.50	3.25	7.26	7.50	0.79	0.85	35.06	37.50

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING, INITIAL Degrees C/Degrees F	CARBON (ULTIMATE ANALYSIS) Dry %
Gross	Net		
14,100 BTU/ 7,834 kcal/kg	13,591 BTU/ 7,551 kcal/kg	1,404/2,560	81.25

TRANSPORTATION: CSX & NS RR

Thermal Coal: Appalachia Pardee Complex

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	
7.00	10.30	11.12	1.25	1.35	33.28	35.94	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
Gross	Net	INITIAL	SOFTENING	HEMISPHERICAL	FLUID
		Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
12,500 BTU/ 6,945 kcal/kg	11,988 BTU/ 6,660 kcal/kg	1,374/2,505	1,442/2,627	1,488/2,711	1,518/2,765

TRANSPORTATION: NS RR

Thermal Coal: Appalachia Pardee Complex

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	
7.00	13.00	13.98	0.85	0.91	32.25	34.67	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
Gross	Net	INITIAL	SOFTENING	HEMISPHERICAL	FLUID
		Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
12,300 BTU/ 6,834 kcal/kg	11,799 BTU/ 6,556 kcal/kg	+1,538/ +2,800	+1,538/ +2,800	+1,538/ +2,800	+1,538/ +2,800

TRANSPORTATION: CSX RR

Thermal Coal: Appalachia Mountain Laurel Complex

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
7.00	13.00	13.98	0.85	0.91	32.25	34.67	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
12,300 BTU/ 6,834 kcal/kg	11,799 BTU/ 6,556 kcal/kg	+1,538/ +2,800	+1,538/ +2,800	+1,538/ +2,800	+1,538/ +2,800

TRANSPORTATION: CSX RR

Thermal Coal: Appalachia Lone Mountain

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
7.00	12.15	13.12	0.80	0.86	33.29	35.95	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
12,500 BTU/ 6,945 kcal/kg	11,986 BTU/ 6,660 kcal/kg	1,382/ 2,519	1,418/ 2,584	1,479/ 2,694	1,566/ 2,850

TRANSPORTATION: CSX & NS RR

Thermal Coal: Appalachia Buckhannon

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
6.50	12.10	12.95	1.25	1.34	32.25	34.51	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
12,500 BTU/ 6,945 kcal/kg	12,022 BTU/ 6,679 kcal/kg	1,482/ 2,700	1,482/ 2,700	1,482/ 2,700	1,482/ 2,700

TRANSPORTATION: CSX RR

Thermal Coal: Appalachia East Kentucky

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
6.50	11.60	12.41	0.85	0.91	32.33	54.96	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
12,200 BTU/ 6,778 kcal/kg	11,721 BTU/ 6,512 kcal/kg	1,482/ 2,700	1,482/ 2,700	1,482/ 2,700	1,482/ 2,700

TRANSPORTATION: CSX RR

Thermal Coal: Appalachia
Knott County

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
7.00	9.00	9.72	1.55	1.67	36.11	39.00	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
12700 BTU/ 7,056 kcal/kg	12,182 BTU/ 6,768 kcal/kg	1,374/ 2,505	1,432/ 2,610	1,482/ 2,700	1,482/ 2,700

TRANSPORTATION: CSX RR

Thermal Coal: Appalachia
Eastern Birch River

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
6.50	11.00	11.77	1.20	1.28	31.78	34.00	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
12,600 BTU/ 7,001 kcal/kg	12,120 BTU/ 6,736 kcal/kg	1,482/ 2,700	1,482/ 2,700	1,482/ 2,700	1,482/ 2,700

TRANSPORTATION: CSX RR

Thermal Coal: Appalachia
Raven Supreme

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
7.00	11.60	12.53	1.45	1.57	34.87	37.66	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
12,300 BTU/ 6,834 kcal/kg	11,750 BTU/ 6,528 kcal/kg	1,282/ 2,340	1,341/ 2,445	1407/ 2565	1,457/ 2,655

TRANSPORTATION: CSX RR

Thermal Coal: Appalachia
Hazard

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
6.10	12.00	12.72	1.35	1.43	33.78	35.97	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
12,200 BTU/ 6,778 kcal/kg	11,713 BTU/ 6,508 kcal/kg	1,449/ 2,640	1,482/ 2,700	1,482/ 2,700	1,482/ 2,700

TRANSPORTATION: CSX RR

Thermal Coal: Appalachia Patriot Mining

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
6.50	14.40	15.41	1.50	1.61	35.28	34.95	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
12,120 BTU/ 6,734 kcal/kg	11,629 BTU/ 6,472 kcal/kg	1,482/ 2,700	1,482/ 2,700	1,482/ 2,700	1,482/ 2,700

TRANSPORTATION: CSX/NS/BARGE

Thermal Coal: Appalachia Coal-Mac/Ragland

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
7.00	13.50	14.58	0.70	0.76	31.53	34.05	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
12,100 BTU/ 6,723 kcal/kg	11,636 BTU/ 6,466 kcal/kg	+1,538/ +2,800	+1,538/ +2,800	+1,538/ +2,800	+1,538/ +2,800

TRANSPORTATION: NS RR

Thermal Coal: Appalachia Coal-Mac/Holden 22

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
7.00	13.60	14.69	0.70	0.76	31.21	33.71	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
11,850 BTU/ 6,584 kcal/kg	11,438 BTU/ 6,356 kcal/kg	+1,538/ +2,800	+1,538/ +2,800	+1,538/ +2,800	+1,538/ +2,800

TRANSPORTATION: CSX RR

Thermal Coal: Western Bituminous Region Dugout Canyon

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
6.82	12.07	12.97	0.68	0.73	34.33	36.84	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
11,782 BTU/ 6,546 kcal/kg	11,290 BTU/ 6,273 kcal/kg	1,218/ 2,225	1,251/ 2,283	1,283/ 2,341	1,337/ 2,439

TRANSPORTATION: UP/UTAH RR

Thermal Coal: Western Bituminous Region
West Elk

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
10.52	8.36	9.34	0.42	0.47	34.97	39.17	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
11,419 BTU/ 6,344 kcal/kg	10,893 BTU/ 6,052 kcal/kg	1,258/ 2,296	1,288/ 2,350	1,343/ 2,449	1,388/ 2,530

TRANSPORTATION: UP RR

Thermal Coal: Western Bituminous Region
Skyline

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
8.16	11.57	12.61	0.40	0.43	38.01	41.39	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
11,340 BTU/ 6,301 kcal/kg	10,818 BTU/ 6,011 kcal/kg	1,188/ 2,171	1,217/ 2,223	1,237/ 2,259	1,274/ 2,326

TRANSPORTATION: UP RR

Thermal Coal: Illinois Basin
Knight Hawk Coal, LLC

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
12.88	8.52	9.78	2.81	3.22	37.13	42.67	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
11,218 BTU/ 6,233 kcal/kg	10,681 BTU/ 5,935 kcal/kg	594/ 1,102	629/ 1,164	662/ 1,223	707/ 1,305

TRANSPORTATION: TRUCK TO LONE EAGLE DOCK

Thermal Coal: Illinois Basin
Lost Prairie

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	Dry %
12.20	8.00	9.12	2.87	3.27	34.70	39.56	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
11,200 BTU/ 6,223 kcal/kg	10,660 BTU/ 5,923 kcal/kg	1,088/ 1,990	1,153/ 2,107	1,204/ 2,199	1,253/ 2,288

TRANSPORTATION: UP AND CN RR

Thermal Coal: Western Bituminous Region

Sufco

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	
10.31	11.00	12.25	0.35	0.39	36.20	40.36	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
10,899 BTU/ 6,055 kcal/kg	10,390 BTU/ 5,773 kcal/kg	1,172/ 2,142	1,186/ 2,167	1,199/ 2,191	1,231/ 2,248

TRANSPORTATION: UP RR

Thermal Coal: Illinois Basin

Viper Mine

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	
17.19	9.25	11.17	3.24	3.91	34.88	42.12	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
10,488 BTU/ 5,827 kcal/kg	9,935 BTU/ 5,520 kcal/kg	1,040/ 1,904	1,072/ 1,961	1,126/ 2,058	1,174/ 2,146

TRANSPORTATION: TRUCK

Thermal Coal: Southern Powder River Basin

Black Thunder

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	
27.29	5.31	7.33	0.35	0.48	33.33	50.00	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
8,860 BTU/ 4,923 kcal/kg	8,222 BTU/ 4,580 kcal/kg	1,162/ 2,123	1,173/ 2,144	1,178/ 2,153	1,192/ 2,178

TRANSPORTATION: BNSF & UP RR

Thermal Coal: Southern Powder River Basin

Coal Creek

COAL OPERATION SPECS

MOISTURE		ASH		SULFUR		VOLATILE MATTER	
As Received %	As Received %	Dry %	As Received %	Dry %	As Received %	Dry %	
29.88	6.16	8.78	0.32	0.46	31.28	44.61	

CALORIFIC VALUE		ASH FUSION TEMPERATURE REDUCING,			
		INITIAL	SOFTENING	HEMISPHERICAL	FLUID
Gross	Net	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F	Degrees C/ Degrees F
8,400 BTU/ 4,667 kcal/kg	7,775 BTU/ 4,320 kcal/kg	1,159/ 2,118	1,171/ 2,140	1,180/ 2,156	1,203/ 2,197

TRANSPORTATION: BNSF & UP RR

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