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- Creative solutions to meet shifting global raw material sourcing patterns
- Marketing low, mid, and high-volatile hard-coking coals
- Expanded product line includes semi-soft coking, PCI, and anthracite coals
- Export throughput capacity at multiple U.S. East Coast ports



Through a “top-off” vessel loading (pictured) Xcoal is able to maximize efficiency and demonstrate the long-term sustainability of U.S. coal in the global marketplace. Read more about Xcoal and our innovative services in this issue of *World Coal*.



Contact us at +1 (724) 520-1630 or xcoal@xcoal.com

WORLD COAL[®]

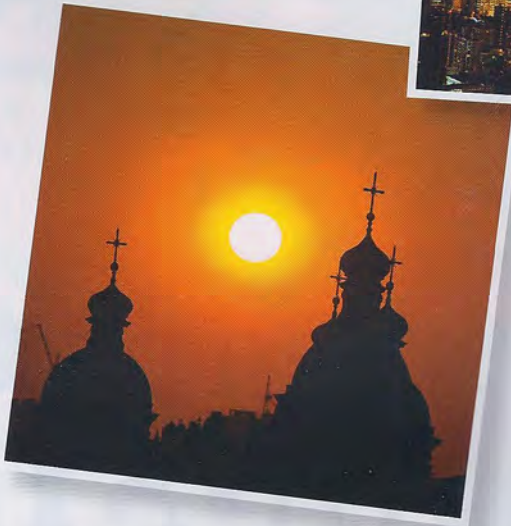
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WORLD COAL COMPILES ITS ANNUAL REVIEW OF SOME OF THE MAJOR COAL-RELATED PROJECTS, IN VARIOUS STAGES OF COMPLETION, ACROSS THE GLOBE.

Africa and the Middle East

BOTSWANA

Mmamabula coalfield, CIC Energy Corp.

CIC Energy Corp. is developing three projects at the 2.6 billion t Mmamabula coalfield.

Mmamabula energy project

The Mmamabula energy project (MEP) is a planned power plant and integrated coal mine 80 km from the South African power grid. It is expected to produce 1200 MW of power for supply to South Africa.

To date, CIC Energy has invested more than US\$ 150 million and about

four years developing the MEP. With a substantial amount of development work already completed, the project is good to go, following the completion of the necessary electricity regulatory framework by the South Africa Government.

Mookane domestic power project

The Mookane domestic power project (MDPP) is a planned baseload independent power producer (IPP) project expected to be the first to break ground in Botswana. This 300 MW power plant and associated coal mine will be built at CIC Energy's

Mmamabula coalfield to supply power to Botswana. The MDPP is being developed independently of the MEP (see above).

In August 2010, CIC Energy concluded a shareholders' agreement with GCL (Botswana) Ltd regarding the MDPP. GCL Botswana will own 70% of the project, while CIC Energy will own the remaining 30%. Affiliates of GCL Botswana will build and operate the power plant and the associated 1.3 million tpa coal mine. CIC Energy will contribute coal resources of approximately 200 million t ROM to the project company that will build the coal mine.



Cat 979 at West Belle Ayr coal mine.

New Elk mine, Cline Mining Corp.

McLanahan Corp. received an order for a 18 in. x 36 in. Black Diamond double roll crusher for New Elk mine in Colorado.

Oaktown Fuel No. 1 mine, Black Panther Mining

Sandvik's MC350 prototype has been in operation at Black Panther Mining's Oaktown Fuel No. 1 mine in Indiana from November 2009 to March 2010.

The mining method is room-and-pillar, with 11 entries/section, at 24 m (80 ft) centres. Entry width is 5.5 m (18 ft) and the cutting height 2.1 – 2.4 m (82 - 95 in.).

During February 2010, the machine achieved an average production of 550 t/shift, at 98.3% machine availability.

Supply chain improvements, coal export terminals in Baltimore and Hampton Roads.

Four of the top 10 export destinations for US coal during 2010 are in Asia compared to one in 2009. The

year-to-year tonnage increases to these Asian customers are at historical highs.

As the mature economies in western Europe improve, and the emerging economies in eastern Europe and South America continue to grow, demand for US coal will continue to increase.

Australia and Canada are the first beneficiaries of increased coking coal demand from China, but increased demand from non-Chinese consumers cannot be supplied easily by Australia or Canada. US coal suppliers will thus be called upon to satisfy increased demand not only in traditional markets, but also Asian markets, including China and India.

To ensure a sustainable, efficient, and competitive supply chain for US coal to customers in Asia, Xcoal, in cooperation with CSL International, implemented the following ocean shipping procedure:

- Load 180,000 – 210,000 DWT capesize vessels to the maximum sailing draft at

the coal export terminals in Baltimore, Maryland, or Hampton Roads, Virginia.

- Load a 55,000 – 75,000 DWT belted self unloading vessel at the coal export terminals in Baltimore, Maryland or Hampton Roads, Virginia.
- The two vessels meet at a protected anchorage near Canso, Nova Scotia where the belted unloading vessel transfers its cargo to the large capesize vessel.
- The large capesize vessel sails to discharge ports in Asia with a cargo of 180,000 – 210,000 t of coal.

As a result, the customers benefit from the lower costs of ocean freight, reducing the delivered cost of US coal. The loading terminal also benefits from the efficiency improvements and increased capacity resulting from the use of larger vessels.

West Elk mine, Arch Coal Inc.
Taggart Global recently designed and