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NMA Mining Week is a weekly publication of the National Mining Association. Mining Week archives are always available online at www.nma.org.

New report highlights benefits of CCS technologies

A new report from the National Research Council, an arm of the National Academy of Sciences, highlights the key role carbon capture and storage (CCS) technologies can play in meeting future demand for clean, affordable domestic energy sources.

The report, *America's Energy Future: Technology and Transformation*, projects that by 2035, coal-based electricity generation plants equipped with CCS technology could replace the current coal fleet with nearly pollution-free power through a combination of new facilities and retrofitting of existing plants.

The report also says coal-to-liquid fuel plants utilizing CCS technologies could replace upwards of 20 percent of current fuel consumption in the domestic transportation sector.

Key to ensuring the successful deployment of CCS technology will be the creation of a legal framework, the report stressed.

NMA President and CEO Hal Quinn said the report "makes a compelling case for why America needs to keep moving forward on CCS technologies."

The report highlights the relative price stability and domestic abundance of coal, saying that, "it is not clear whether adequate supplies of natural gas will be available at competitive prices to support substantially increased levels of electricity generation, and such expansion could expose the United States to greater import reliance."

The report outlines the need for a balanced portfolio of near and long-term initiatives that, in addition to coal and CCS, also includes increased energy efficiency, updated transmissions systems, evolutionary nuclear plants and new renewable supply technologies.

See CCS report, page 2

Sen Begich visits NMA



Raga Elim, head of Rio Tinto's Washington, D.C., office (left) welcomed Sen. Mark Begich (D-Alaska) to NMA's offices on July 29.

Efforts by the Senate to advance legislation to mitigate climate change must address emissions from China, India and other large economies, Sen. Mark Begich (D-Alaska) said during a July 29 visit to NMA's offices.

Begich cautioned that any climate deal that does not target reducing emissions from other large economies would do little to protect the environment and place the U.S. at a huge economic disadvantage. "We can't afford to do that," said Begich.

Begich noted that Senate activity on a climate bill has slowed dramatically due the crush of other pending business, including efforts to advance healthcare reform legislation.

Alaska is home to more than 140 mining operations, which generate approximately 14,000 direct and indirect jobs. Mining jobs pay an average salary of \$80,000, 82 percent higher than the average wage in the state. ✕

Show your support for mining, visit ACT Online and contact your elected officials



Now more than ever, members of the mining community need to take an active role in advocating the critical role mining plays in providing jobs and shaping America's economic and national security.

NMA's Advocacy Campaign Team for Mining (ACT) is an online national network of mining community members who recognize the importance of being involved in the political process and are willing to make their voice heard. So far this year, ACT Online supporters have sent more than 33,000 letters to Congress on key mining issues.

In Congress and state capitols across the nation, issues of enormous importance to the mining community are being debated. NMA's ACT Online homepage offers supporters the chance to contact their elected officials on a wide range of coal, mineral, metal, economic and environmental issues.

Visit [ACT Online](#) today and show your support for America's mining community. ✕

Sens. Casey, Enzi introduce bill to encourage private CCS investment

Sens. Bob Casey (D-Pa.) and Mike Enzi (R-Wyo.) recently introduced the "Carbon Storage Stewardship Trust Fund Act of 2009," which is designed to help facilitate private investments in carbon capture and storage (CCS) technologies.

The bill aims to promote the commercial deployment of CCS through the creation of a carbon storage liability trust fund and the sharing of liability between the private sector and the federal government. The bill would establish a program that offers the private sector a framework for how the legal and financial responsibilities associated with commercial carbon storage operations will be addressed.

Specifically, the bill would require private liability insurance for geological storage facility construction and for carbon dioxide transport, injection, well plugging, site abandonment and post-closure monitoring.

The bill's federal trust fund would be supported by fees paid for by commercial carbon dioxide storage facility operators, which would be used to pay claims for damages made after storage facility stewardship is transferred to the federal government.

In addition, the bill establishes a federal program to certify closure of commercial facilities and subsequent transfer of liability for long term stewardship to the federal government.

"New technology holds great promise for job creation and a cleaner environment," said Casey in a July 22 joint statement with Enzi. "This bill will encourage the commercial deployment of technology that will allow for the continued use of our nation's vast coal resources to produce economical and reliable power while at the same time mitigating the impact of climate change."

"Coal will continue to fuel the nation and this bill will help coal move into a new era of production," said Enzi. "Carbon sequestration could provide endless possibilities for Wyoming coal and decrease our dependence on foreign oil."

A copy of the bill is available at: [CCS Investment Bill](#).

More information is available at: [Casey-Enzi CCS Bill](#). ✕

CCS report *continued from page 1*

Overall, the report calls for an approach that "must be supported by appropriate public policies and regulations governing energy production, distribution, and use."

"While NMA continues to review many of the report's findings and recommendations, much of the report is consistent with our understanding of costs, technological hurdles and aggressive timeframes associated with the widespread deployment of needed technologies," said Quinn.

"The policy challenges are equally daunting," Quinn added. "The NRC has provided a valuable service to all those committed to serving America's energy interests."

Copies of the report are available from the [National Academies of Science](#). ✕

EPA to hold public hearings on National Ambient Air Quality standards for nitrogen dioxide

The U.S. Environmental Protection Agency this week announced that it will hold public hearings on Aug. 3 in Arlington, Va., and Aug. 6 in Los Angeles, Calif., regarding the agency's proposal to increase nitrogen dioxide (NO₂) National Ambient Air Quality standards.

The proposed revisions would establish a one-hour NO₂ standard at a level between 80 and 100 parts per billion (ppb) and would retain the current annual standard of 53 ppb.

The agency believes the proposed standards would protect public health by reducing people's exposure to high short-term concentrations of NO₂ and assure that community-wide NO₂ concentrations remain below levels that may cause public health problems.

People seeking more information, or those wishing to speak at either meeting, can contact the agency via e-mail at crabtree.tricia@epa.gov or by phone at (919) 541-5688.

Members of the public may register in person on the day of the hearing, however, EPA said doing so risks not being allotted a specific time to speak. ✕

New analysis tracks American personal mineral use

A new analysis from the Mineral Information Institute (MII), an affiliate of the Society for Mining Metallurgy & Exploration (SME), found that every American will need 3.3 million pounds of minerals, metals and fuels in their lifetime to maintain their standard of living.

In 2008, MII found that nearly 43,000 pounds of minerals were consumed annually by every person in the United States in everyday items, including building materials, automobiles, computers, cell phones and televisions.

The statistics used to generate the analysis were provided by preliminary 2008 data from the U.S. Geological Survey and the Energy Information Administration.

More information on lifetime and per capita mineral use is available from: [MII Analysis](#)

More information about the benefits of domestic mineral mining is available at www.nma.org.

MII Mineral Use Calculations, 2008

Annual Pounds per Capita	42,719
Lifetime Pounds per Capita	3,323,541
Life Expectancy	77.8
Annual Tons Consumed	6,494,569,570
U.S. Population	304,060,000



Mining Calendar Events and conferences covering important mining issues are routinely held across the nation. The following may be of interest to members of the mining community:

August 2-6 Morgantown, W.Va., Energy & Mineral Law Foundation Coal Law Short Course A comprehensive 25-hour course developed for lawyers new to the practice of coal and energy law, covering laws and regulations impacting coal mining and transactions, mineral ownership concepts and synthesizing environmental, labor and safety law concepts. More information available at www.emlf.org

August 4-6 Prestonburg, Ky., Appalachian Regional Reforestation Initiative Conference The Kentucky Department for Natural Resources, the University of Kentucky and the Office of Surface Mining will host the ARRI conference, which will address the role of industry in forestry reclamation by providing permitting and inspection guidance to coal applicants. Panels of industry and regulatory personnel will present case studies, success stories and topics of concern. The registration deadline is June 30. More information is available at: [ARRI Conference](#).

August 6-9 White Sulphur Springs, W.Va., West Virginia Coal Association Annual Meeting The event will be held at The Greenbrier. For more information, call (304) 342-4153.

August 11 Paducah, Ky., 61st meeting of the Inland Waterways Users Board The 61st meeting of the Inland Waterways Users Board will be held on Tuesday, Aug 11, 2009, in Paducah, Ky., at the Luther F. Carson Four Rivers Center. More information is available by contacting Kenneth Lichtman with the Inland Waterways Users Board at (703) 428-8083 or Mark Pointon, executive secretary, Inland Waterways Users Board at (202) 761-4691.

September 21-24 Belo Horizonte, Brazil, Brazilian Mining Show The U.S. Commercial Service of the U.S. Embassy in Brazil will again organize a pavilion for U.S. exhibitors for the

show, which is expected to draw more than 40,000 visitors. This show is the most important mining sector event in Brazil and is held every two years. Exhibition space has sold out in the last editions and U.S. companies planning to participate are encouraged to contact the Commercial Service as soon as possible. More information is available at: [Brazilian Mining Show](#).

October 28-30 Lexington, Ky., 34th Kentucky Mineral Law Conference sponsored by the Energy and Mineral Law Foundation. Watch for more information at www.emlf.org.

November 2-6 Anchorage, Alaska, Alaska Miners Association Annual Convention and Trade Show More information is available at www.alaskaminers.org.

November 30-December 4 Reno, Nev., Northwest Mining Association 2009 Annual Meeting and Exposition More information, including online registration, is available at: <http://www.nwma.org/convention.asp>.

February 4-6, 2010 Captiva Island, Fla., Winter Workshops on Energy Law sponsored by the Energy and Mineral Law Foundation. Watch for more information at www.emlf.org.

February 9-10, 2010 Denver, Colo., 112th National Western Mining Conference Sponsored by the Colorado Mining Association. More information is available at www.coloradomining.org.

May 9-11, 2010 Amelia Island, Fla., Energy & Mineral Law Foundation Annual Institute Sponsored by the Energy and Mineral Law Foundation. Watch for more information at www.emlf.org.

New Peabody Energy program honors educators, mentors

Peabody Energy and the Logos School recently unveiled the "Leaders in Education" initiative, a first-of-a-kind partnership to honor excellent educators and mentors in Illinois and Missouri.

The Logos School is an independent, alternative, therapeutic school in St. Louis, Mo., dedicated to assisting students and their families with academic and emotional needs that have not been met in a traditional classroom.

Peabody has pledged \$450,000 dollars over three years to support the initiative. The gift includes funding for an educator/mentor recognition program in Missouri and Illinois and a grant to benefit the mission of Logos School.

"We are proud to partner with Logos to honor the educators and mentors who do so much to develop our young people," said Peabody Chairman and CEO Gregory H. Boyce. "A proactive, caring adult can have a profoundly positive affect on a child's life. The Leaders in Education program will highlight and honor those individuals who motivate our students on their educational journeys," said Boyce.

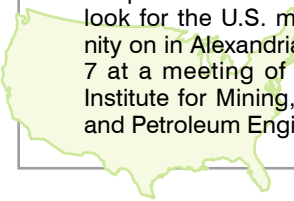
The first Leaders in Education award will be presented in September to an individual selected by a committee of leading academic, business and civic members. Each week another winner will be honored with a \$1,000 grant. Weekly honorees will be announced on KEZK 102.5 Radio and will be profiled bi-weekly in the pages of the *St. Louis Business Journal*.

The program is the first to be open to all applicants regardless of subject, grade or school. Any employee at a Missouri or Illinois public, charter or private school serving students in kindergarten through grade 12 can qualify.

More information and applications are available at: [Peabody Program](#). ✕

NMA Outreach: NMA regularly participates in various conferences, events and other forums to highlight key association initiatives and spotlight important developments in the mining community. Here's a look at upcoming events.

- NMA President and CEO Hal Quinn will provide an overview and outlook for the U.S. mining community on in Alexandria, Va., on Aug. 7 at a meeting of the American Institute for Mining, Metallurgical, and Petroleum Engineers.



Newsbits

Peabody Energy on July 23 announced that **Robert A. Malone** has been appointed to the company's board of directors and will serve on the board's Audit and Compensation Committees. Malone is a 35-year energy and mining industry executive and is past chairman and president of BP America Inc., the largest U.S. producer of oil and natural gas. "Bob has extensive knowledge of U.S. and global energy markets with particular focus on China, India and Indonesia," said Peabody Chairman and CEO **Gregory H. Boyce**. Malone previously held a series of senior positions with Kennecott Copper Corp., the Standard Oil Company of Ohio and BP. More information is available at: [Peabody Announcement](#).

Mining Market Snapshot

Coal Figures	Cumulative year to date	Change over last year
<i>Week ended July 18, 2009</i>		
EIA Coal Production (000 tons)	593,861	-5.7%
Edison Electric Institute Electricity Output (GWh)	2,149,747	-4.2%
American Iron and Steel Institute Raw Steel Production (000 tons)	30,143	-50.8%
Metal Figures		
Copper Prices (\$/mt - week avg. Grade A Cash) 7/17/09		\$5,106.60
Gold Prices (\$/troy ounce - week avg. London Final) 7/17/09		\$928.75
Source: NMA Weekly Statistical Summary/Platts Metals Week		



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