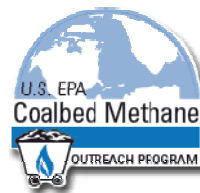




# COALBED METHANE EXTRA

A publication of the Coalbed Methane Outreach Program (CMOP)

[www.epa.gov/cmop](http://www.epa.gov/cmop)



## EPA Issues Final Rule on Mandatory Reporting of Green House Gases

In response to the FY2008 [Consolidated Appropriations Act](#) (H.R. 2764; Public Law 110–161), EPA has issued the Final Mandatory Reporting of Greenhouse Gases Rule. The rule requires reporting of greenhouse gas (GHG) emissions from large direct emitting sources and fossil fuel and industrial GHG suppliers in the United States, and is intended to collect accurate and timely emissions data to inform future policy decisions. The first annual reports for facilities covered by this rule will be for calendar year 2010, and will be submitted to EPA in 2011.

A copy of the final rule and additional information can be found on the [EPA's Climate Change website](#).

Section FF – Underground Coal Mines is **not included** in the final rule referenced above.

Due to resource and time constraints, EPA did not finalize a few sections from the Proposed Rule (On April 10, 2009, the proposed rule was published in the [Federal Register](#) under Docket ID No. EPA-HQ-OAR-2008-0508).

EPA will be issuing its final rule as it pertains to Section FF – Underground Coal Mines in the near future. The final rule will be based on comments received on the Proposed Rule.

Due to this delay, Underground Coal Mines will not be required to submit mandatory reports covering calendar year 2010. The actual start date for mandatory reporting will be determined by when the final rule for Section FF – Underground Coal Mines is issued.

See **Mandatory Reporting Rule** on page 6

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and register for our mailing list. You will be added within two weeks.

### Cap and Trade Legislation Passes in the House of Representatives

The American Clean Energy and Security Act of 2009 (H.R. 2454), commonly known as the "Waxman-Markey" Bill after its two main sponsors, was passed in the US House of Representatives on June 25, 2009, by a vote of 219-212. This is a comprehensive energy bill which includes a cap-and-trade plan designed to reduce economy-wide greenhouse gas (GHG) emissions.

In its current form as passed by the House, the legislation contains, among other things, several provisions that amend the Clean Air Act (CAA) and the Public Utility Regulatory Policies Act (PURPA) in ways that may impact future coal bed methane (CBM) and coal mine methane (CMM) projects in the U.S.

In the bill, methane is specifically defined as a GHG. A provision to amend the CAA would require the US Environmental Protection Agency (EPA) to promulgate regulations to cap and reduce GHG emissions annually, so that GHG emissions from capped sources would be reduced to 17% of 2005 levels by 2050. The provision also requires the EPA to establish a federal GHG registry that designates carbon dioxide and methane, along with nitrous

See **Climate Legislation** on page 2



## New Legislation

### Climate Legislation, *from page 1*

oxide, sulfur hexafluoride, hydrofluorocarbons (HFCs), perfluorocarbons, and nitrogen trifluoride as GHGs and establishes a carbon dioxide equivalent value for each gas.

Section 811 of H.R. 2454 proposes an amendment to the CAA which would require EPA to set performance standards for specified categories of stationary sources that are responsible for at least 10% of uncapped methane emissions. The legislation also includes a provision to update PURPA to add CMM used to generate electricity at a mine, as a qualifying renewable energy resource (Section 610 (11)(c)).

Other provisions include new renewable requirements for utilities, studies and incentives regarding new carbon capture and sequestration technologies, energy efficiency incentives for homes and buildings, and grants for green jobs, among other things.

The bill has moved to the Senate, where members of the Environmental and Public Works Committee, the Senate Foreign Relations Committee and the Senate Energy and Natural Resources Committee are working to develop the legislation.

See the Library of Congress website [www.thomas.gov](http://www.thomas.gov) (search by Bill Number - H.R.2454) for the full text of the legislation, information on committees and all related congressional actions.

### The Consolidated Land, Energy, and Aquatic Resources Act of 2009

A new bill aiming to provide greater efficiencies, transparency, returns and accountability in the administration of Federal mineral and energy resources was introduced in the House of Representatives on September 8<sup>th</sup> by Rep. Nick Rahall (WV).

Bill H.R. 3534, the Consolidated Land, Energy and Aquatic Resources Act of 2009, proposes to meet these goals by consolidating administration of various Federal energy minerals management and leasing programs into one entity.

The bill contains provisions for oil and gas royalty and leasing reforms. Section 307 of Title III of the bill ("Oil and Gas Leasing Reform") proposes amendments to the Mineral Leasing Act to establish rules for CMM recovery at mines with Federal coal leases, specifically:

- CMM released from mining activities will be included within the scope of the coal lease if the U.S. owns both the coal and gas resources.
- Any coal lease on land where the U.S. owns both the coal and gas resources, must contain provisions for the recovery of associated CMM to the maximum feasible extent, taking into account the economics of both the mining and methane capture operations.
- When applying for a deep mining lease, an analysis, paid for by the lessee, must be carried out to determine whether CMM can be captured economically and used or flared.
- If the recovery or flaring of CMM is not economic, or cannot be carried out in a manner that assures the protection of mine workers, coal mining may proceed without requiring capture.
- On leases with federally owned coal, but privately owned gas, the coal operator is required to make a reasonable effort to work with the gas owner for the joint recovery of coal and CMM if economically feasible. If no agreement is reached, the Interior Dept. may seek a court order to allow coal mining and methane capture to proceed by the lessee, subject to a reasonable division of the proceeds from the sale of the coal and methane resources.
- Federal CMM resources captured and used or sold, are subject to a royalty of at least 12.5 percent.

The bill has been referred to the House Committee on Natural Resources and committee hearings were held September 16-17.

See the Library of Congress website [www.thomas.gov](http://www.thomas.gov) (search by Bill Number - H.R.3534) for the full text of the legislation, information on committees and all related congressional actions.



## Methane to Markets Update

### Methane to Markets Partnership Welcomes New Partner Countries

Four new Partner Countries have joined the Methane to Markets Partnership since the start of 2009. Chile, Bulgaria, Georgia and the Dominican Republic are the latest countries to join the international initiative that advances cost-effective, near-term methane recovery and use as a clean energy source.

The goal of the Partnership is to reduce global methane emissions in order to enhance economic growth, strengthen energy security, improve air quality, improve industrial safety, and reduce emissions of greenhouse gases.



Georgia became the 30<sup>th</sup> Partner Country in August and will be joining the [Coal Mine](#) and [Oil and Gas Systems Subcommittees](#) in an effort to reduce methane emissions

from both coal mines and oil and gas production within the country. Production re-started in 2008 from the Tkibuli coal mine, which is estimated to have approximately 300 million tons of reserves. USTDA awarded a grant to a joint Georgian/U.S. venture to study the feasibility of methane capture and use at the mine.



On 11 May 2009, [Bulgaria](#) was welcomed as the M2M Partnership's 29th Partner.

Bulgaria offers multiple project development opportunities to reduce methane from its landfills and will be participating in the Landfill Subcommittee. Project Network members are invited to [contact Ms. Maria Ninova](#), Bulgaria's Methane to Markets representative from the Ministry of Environment and Water, for more information on Bulgaria and potential areas for collaboration.



In January, the Methane to Markets Steering Committee welcomed Chile into the Methane to Markets Partnership as the 28th Partner. Sharing the Partnership's goals of developing local, sustainable, and cost-effective renewable energy, Chile is already pursuing a number of methane recovery projects. Chile is looking to expand and broaden its

portfolio of projects to reduce methane emissions even further and will be participating in the Agriculture, Landfill, and Oil & Gas Systems Subcommittees.



The Dominican Republic was formally enrolled as the 31st Partner Country at the recent M2M Steering Committee meeting held in Washington, DC on September 10-11.



*Methane to Markets Partnership Countries*

### Methane to Markets (M2M) Steering Committee Meeting, Washington, DC., September 10-11

U.S. Environmental Protection Agency's Assistant Administrator for the Office of Air and Radiation, Gina McCarthy, chaired a highly successful 6<sup>th</sup> meeting of the Methane to Markets (M2M) Steering Committee that focused on the future of the Partnership.

M2M Steering Committee members from 14 Countries met at the Hotel Monaco in Washington DC to discuss the best approaches for moving forward with an enhanced and expanded M2M Partnership. The discussion ranged from admitting new member Dominican Republic, extending the Terms of Reference, adding new sources of methane, and enhancing the scope of the Partnership to include new commitments and reporting mechanisms and deciding on the need for a Ministerial Meeting to approve new Terms of Reference.

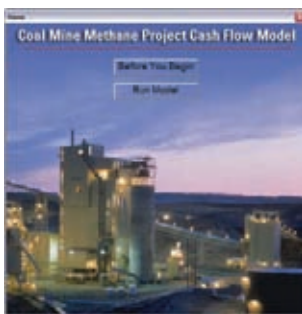
The Steering members reached consensus on multiple items and agreed to plan for a Ministerial event in 2010,

See [M2M Steering Committee Meeting](#), on page 6

## New Coal Mine Methane Software Models

### CMOP Launches Updated CMM Project Cash Flow Model

CMOP is excited to launch an updated version of its **CMM Project Cash Flow Model**. The web-based tool allows coal mine operators and owners, project developers, equipment vendors, and other interested parties to evaluate the financial viability of recovering and utilizing CMM at specific U.S. sites.



**Version 2.0** of the model contains several important upgrades to both the model and the User's Manual. Specific revisions include:

- Model now accounts for backup flaring.
- Users can choose between gob gas and abandoned mine drainage gas as a methane source.
- Users can add a flare to boiler and dryer cases for earning additional certified emission reductions (CER's).
- Cash flow table has been added to the output report.
- Users can open and modify previously saved project scenarios.
- Users Manual contains example calculations for each methane end use scenario.

To use the updated **CMM Project Cash Flow Model**, visit the [CMOP website](#). A User's Guide accompanies the model to provide step-by-step instructions and to explain all assumptions. Assistance with operating and navigating the model is available for free!

Contact CMOP with your questions, feedback, or suggestions for future enhancements.

Email: [CMOPmodel@erg.com](mailto:CMOPmodel@erg.com) Phone: (202) 343-9129

### New NIOSH Software Offers Prediction Capabilities and Solutions to Methane Emission and Control Issues

Researchers at the Pittsburgh Research Laboratory of the National Institute for Occupational Health and Safety (NIOSH) have developed a software suite to help longwall coal mine operators and gas producers.

The software will provide accurate prediction methods related to coal bed and coal mine methane control and emission problems. This first version of the software offers four modules that were developed under the MS-Access™ shell environment. The current version of the software can be used to predict:

- Dynamic elastic properties of coal-measure rocks.
- Ventilation emissions from longwall mines.
- The type of degasification system that needs to be utilized for given situations.
- Production performance of gob gas vent holes.

The software contains a help file and accompanying users manual to guide users on not only how to install and use the prediction modules, but also about the technical details of each module.

The application of these modules (separately or in combination) for methane capture and control-related problems will help improve the safety of mines and identify opportunities for capturing and utilizing methane, an important energy source and potent greenhouse gas.

Additionally, these models can be used to predict some of the input parameters for the USEPA/CMOP *Coal Mine Methane Project Cash Flow Model*.

The software and users manual are available upon request from [Dr. C. Özgen Karacan](#) or [Heather N. Dougherty](#) of NIOSH Pittsburgh Research Laboratory.

## US News

### Climate Action Reserve to Release CMM Project Protocol (v 1.0)



CLIMATE  
ACTION  
RESERVE

The Climate Action Reserve (CAR) will present the first version of its Coal Mine Methane (CMM) Project Protocol to the Reserve Board for adoption on October 7, 2009.

CAR is a non-profit green house gas (GHG) offsets registry which aims to: develop high-quality projects standards; register and track offset credits in a public online system; and ensure the environmental integrity and quality of offset credits.

Their CMM Project Protocol will provide a standardized approach for quantifying and monitoring the GHG reductions from projects at active underground coal mines in the United States that destroy methane that would have otherwise been vented to the atmosphere. The aim of the protocol is to maintain consistency with, or improve upon, existing methodologies and ensure the accuracy and practicality of the projects.

This first version of the protocol will include guidance for ventilation air methane (VAM) projects and methane drainage projects that do not involve final injection of CMM into a sales pipeline.

A public workshop was held on 25 August 2009 to provide a venue for feedback on the protocol and written comments were collected on the Climate Action Reserve website.

A summary of comments with responses and a copy of version 1.0 of the final protocol will be posted on [CAR's CMM website](#) the week of September 28.



Once adopted, version 1.0 will be revised by CAR staff and a working group of industry and government CMM experts, to include projects that send CMM to pipeline. Version 2.0 of the protocol is intended to be released for public comment in December 2009, with final adoption by the Reserve Board in February 2010.

[Register online](#) to view a webinar on Thursday, October 15, 10:00-11:00 am PDT, providing an in depth look at the new CMM Project Protocol. The webinar will feature Rachel Tornek, the Reserve's Senior Policy Manager, who led the development of the Protocol. If you have any questions or difficulties in registering, please contact [Max DuBuisson](#).

### First-of-a-Kind CO<sub>2</sub> Sequestration Field Test Begins in West Virginia

Consol Energy, West Virginia University, and the National Energy Technology Laboratory have begun a \$US13 million field trial in Marshall County, West Virginia, to enhance coalbed methane recovery with simultaneous carbon dioxide sequestration in an unmineable coal seam. The project, funded by the US Department of Energy, hopes to help mitigate climate change by providing an effective and economic means to permanently store CO<sub>2</sub> in unmineable coal seams.

The Marshall County site was chosen because of its accessibility, availability, and typical northern Appalachian topography and geology. In advance of CO<sub>2</sub> injection, horizontal coalbed methane wells were drilled in a modified five-spot pattern over a 200-acre area into the unmineable Upper Freeport coal seam, 1200-1800 feet below ground, and separately into the overlying mineable Pittsburgh coal seam.

These wells have been producing coalbed methane and water since 2004. The center wells in the Upper Freeport seam have now been converted to CO<sub>2</sub> injection wells, and a Class II underground injection control permit was obtained from the West Virginia Department of Environmental Protection Office of Oil and Gas. Researchers plan



## Methane to Markets Update

### **M2M Steering Committee Meeting**, *from page 3*

to be held in conjunction with a COP Ministerial meeting in Mexico. Steering members also agreed to extend the current Terms of Reference until a Ministerial is held, and will work on the details of enhanced Terms of Reference at the 7<sup>th</sup> Steering Meeting to be held in conjunction with the March 2010 India Partnership Expo.

Additional information on the meeting is available on "[Steering Committee](#)" page of the newly revamped Methane to Markets website.

### **M2M launches new look website**

An interactive map highlighting the Partner Countries is the centerpiece of a major makeover for the [Methane to Markets website](#). A quick click on a country outline takes you straight to the country profile and automatically filters the Sector Committee Activities to be country specific.

Obvious links on the homepage for the different M2M Sectors, an interactive Events Listing and the Methane International [Newsletter](#) provide instant access to the latest M2M information.

M2M is now on Facebook and several other social networking sites. Click on the "+ Share" button (top right of the home page) to discover more.

### **Analysis of International Best Practices for CMM Recovery and Utilization**

U.S. EPA's Coalbed Methane Outreach Program (CMOP), in support of the Methane to Markets Partnership, aims to address the barriers to CMM project development in Ukraine, through its work with Battelle Pacific Northwest National Laboratory (PNNL) and ARENA-ECO.

As part of this cooperation, Battelle and ARENA-ECO have recently published an **Analysis of International Best Practices for CMM Recovery and Utilization**, which provides an overview of, and similarities between, different countries' successful policies and institutional choices that have led to significant reductions in CMM emissions worldwide.

The document highlights regulatory provisions, economic and financial incentives, CMM stakeholders, outreach programs, and CMM/CBM utilization technologies that are seen as "best practices" in several different countries.

The analysis can be found on the [Ukraine](#) page of CMOP's website.

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### **Mandatory Reporting Rule**, *from page 1*

Section KK – Suppliers of Coal is **not included** in the final rule referenced above. Based on careful review of comments received on the preamble, rule, and technical support documents under proposed 40 CFR part 98, subpart KK, EPA will perform additional analysis and consider alternatives to data collection procedures and methodologies. These alternatives will provide coverage of coal supplied, imported, or exported while concurrently taking into account the industry burden.

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### **CO<sub>2</sub> Sequestration Field Test**, *from page 5*

to inject CO<sub>2</sub> at a pressure of up to 700 pounds per square inch and a rate of about 27 short tons per day over the next two years into the center wells in the Upper Freeport coal seam.

The impact of CO<sub>2</sub> injection on the production and composition of the coalbed methane produced in the peripheral and overlying wells will be carefully monitored. During the project, and for two years after, the research team will monitor gas and water produced from active coalbed methane wells and abandoned deep gas wells in the area; monitor the quality of groundwater and stream water; monitor soil gas; test perfluorocarbon tracer; and use surface tilt meters to measure reservoir deflection and track movement of the CO<sub>2</sub> plume.

This work will provide data to formulate effective CO<sub>2</sub> injection procedures, evaluate the CO<sub>2</sub> adsorption capacity of an Appalachian coal seam, and assess the economic feasibility of the potential greenhouse gas mitigation approach.

Source: [DOE Fossil Energy Techline](#)

## New Publications

### New CMOP Publications

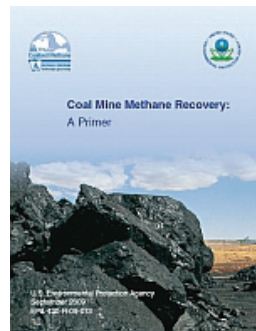
#### *Coal Mine Methane Recovery: A Primer*

This Primer is a compilation and updating of five EPA reports, written from 1999 – 2001, which reviewed the major methods of CMM recovery from gassy mines.

The intended audiences for this Primer are potential investors in CMM projects and project developers seeking an overview of the basic technical details of CMM drainage methods and projects. The report reviews the main pre-mining and post-mining CMM drainage methods with associated costs, water disposal options and in-mine and surface gas collection systems.

The Primer is one of many CMM related technical documents located on the “[Documents, Tools & Resources](#)” page of the CMOP website.

[Coal Mine Methane Recovery: A Primer](#), September 2009



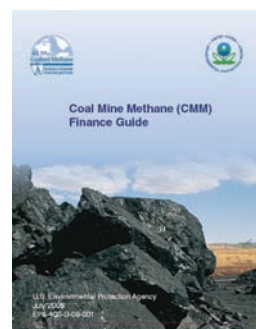
#### *Coal Mine Methane Finance Guide*

Many funding and investment sources emphasize sustainable development, environmental protection, and climate change mitigation as important components of projects that they finance. CMM projects support all of these objectives.

CMOP has developed this guide for project developers and investors who are interested in pursuing CMM project opportunities, particularly in emerging market countries. While most of the project and cost information described is U.S.-based, there are numerous global opportunities for CMM project development.

This guide summarizes the market potential for CMM projects (e.g., sources/uses of CMM), project economics, types of financing, and risk mitigation. Particular attention has been paid to the emerging markets of carbon credits as potential funding for CMM projects.

[Coal Mine Methane Finance Guide](#), July 2009



#### *Analysis of International Best Practices for Coal Mine Methane Recovery and Utilization*

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[Analysis of International Best Practices for Coal Mine Methane Recovery and Utilization](#), January 2009

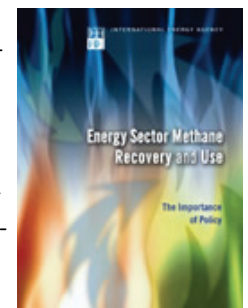
### New IEA Publication

#### *Energy Sector Methane Recovery and Use: The Importance of Policy*

While there are hundreds of methane mitigation projects successfully operating around the world, much more can be done, if the right policies are in place. Policy solutions are needed to address financial, knowledge and regulatory barriers that can prevent promising projects from development.

This IEA report for the first time documents the successful energy sector methane recovery and use policies that are in use around the world, with the aim of providing models that can be adapted – resulting in more efficient, lower-cost solutions to global climate change.

[Energy Sector Methane Recovery and Use](#), August 2009





## CBM/CMM News

### US and China sign MOU on Enhancing Cooperation on Climate Change, Energy and the Environment

The Government of the United States of America and the Government of the People's Republic of China signed a Memorandum of Understanding (MOU) on 28 July 2009 to enhance cooperation on climate change, energy and the environment.

According to a U.S. Department of State press release, the MOU, signed at the U.S. - China Strategic and Economic Dialogue, recommitments the U.S. and China to reach a successful international agreement and expand cooperation to accelerate the transition to a sustainable low-carbon global economy.

The MOU places emphasis on expanded cooperation in combating climate change and promoting energy efficiency, renewable energy, smart grid technologies, electric vehicles, cleaner uses of coal, and carbon capture and storage, joint research and development, clean air and water, and the protection of natural resources.

The MOU can be found on the [U.S. Department of State web site](#).

### Ukraine Passes Coal Mine Methane Legislation

In June 2009, Ukrainian President Viktor Yushenko signed important coal mine legislation that includes a tax exemption for Ukrainian coal

mine methane projects. Starting in 2010 and continuing through January 2020, profits from the production and use of coal mine methane earned by Ukrainian enterprises will no longer be subject to taxation.

Additionally, the Ukrainian National Electricity Regulatory Commission is authorized to set price limits for methane if its production is funded from the state budget. The government plans to grant state support and guarantees to the producers and suppliers of energy from coal mine methane to help increase the production and use of methane from coal deposits.

### Consol Energy Resumes Coal Production at Buchanan Mine

After idling production in March, Consol Energy's Buchanan Mine in Virginia has resumed coal production, although not at full rates. Production restarted in July, with two shifts running from a possible three. The mine is one of the largest underground coal mines in the U.S. and at full production rates, employs 520 people.

However, in a sustained effort to balance supplies of Northern Appalachian coal with continued low demand, Consol is cutting production at its Blacksville No.2 mine in WV, Jones Fork in KY, and Wiley operations in WV. Overall, Consol plans to adjust its 2009 estimated coal production to 60 million tons from its previous target of 62 million tons.

Peabody Coal projects that 2009 demand for U.S. coal is likely to be

115 to 125 million tons below 2008 levels based on a 25 million U.S. coal production decline in the second quarter. St. Louis-based Peabody Energy Corp., along with Arch Coal Inc., the two largest privately owned U.S. coal producers, have shed most of their Eastern mines to focus on lower-cost surface mines in the West.

### U.S. CBM Drilling Slumps

World Oil magazine (Aug, 2009) reports that CBM drilling in the U.S. is predicted to fall by almost half in 2009, compared with 2008, caused by low gas prices and the continuing economic downturn. U.S. operators drilled 5,129 CBM wells in 2008, 667 (12%) fewer than in 2007 and continuing a slowdown from a high of 7,357 wells in 2006. The Energy Information Agency reports that CBM production in the U.S. remained relatively flat in 2007 for the third straight year, with 1.754 Tcf (49.67 Bcm) of output.

High dewatering costs, caused by decreasing disposal capacity has been one of the main causes of the drilling slowdown, along with lengthened, more stringent permitting processes and low gas prices in Wyoming, the most prolific state for CBM drilling. Most CBM producing states are experiencing reduced CBM well drilling, with the exception being Virginia, which is projected to have only a slight decline in the number of wells drilled in 2009. Most CBM well drilling in the state is associated with de-gassing coal seams before mining, which remains quite active in spite of the recession.

## Upcoming CBM/CMM Events

### Joint meeting of the Methane to Markets Coal Mine Subcommittee and the UNECE Ad Hoc Group of Experts on Coal Mine Methane

12-13 October 2009

Geneva, Switzerland

The Coal Mine Methane Subcommittee Meeting will be held in conjunction with the 5th Meeting of the UNECE Ad Hoc Group of Experts on Coal Mine Methane. The Methane to Markets Coal Subcommittee meeting will be held on 12 October, followed by the UNECE Ad Hoc Group meeting on 13 October.

The meeting will focus on planning for the upcoming 2010 Methane to Markets Partnership Expo, to be held in New Delhi, India, in March 2010. Please join us to discuss the technical and policy sessions related to the CMM sector, plans for showcasing project opportunities, and share your thoughts about the future of the Partnership.

All Subcommittee and Project Network members are invited and encouraged to attend the UNECE meeting in Geneva, Switzerland, hosted by the UN Economic Commission for Europe (UNECE), Sustainable Energy Division.

Information on logistics and the draft agenda can be found on [Methane to Market's revamped website](#).

### 9th International CBM/CMM Symposium in China

10-11 November 2009

Beijing, China

Held by China Coal Information Institute (CCII), the Symposium will provide opportunities for direct exchange among Chinese and foreign governmental departments, international financial organizations, and companies from the coal, CBM, petroleum, electricity and geology industries.

The agenda will feature international experts speaking on the potential for CBM/CMM project development in China, CMM drainage and utilization technologies, ventilation air methane (VAM) utilization technologies, CBM/CMM policies and financing, updates from the Methane to Markets Partnership activities in China, as well as recent developments in CDM projects and carbon trading.

CCII is currently soliciting a [call for papers](#), due October 20, 2009. Additional information can be found online on the [Symposium website](#), CCII at [cbmc@coalinfo.net.cn](mailto:cbmc@coalinfo.net.cn).

### The Ninth International Mine Ventilation Congress

10-13 November, 2009

New Delhi, India

The Mine Ventilation Congress, which only takes place every 4 years, includes topics such as coal mine methane capture and utilization, coalbed methane, and methane drainage and mine gas control. For more information, go to [www.9thimvc.org](http://www.9thimvc.org).



The **2009 U.S. Coal Mine Methane Conference** is just days away! We're thrilled to report that registration levels have already exceeded last year's numbers, and our exhibit area - which tripled in size this year - has reached its capacity limit.

In addition to participants from Canada, Europe, Japan and around the world, the Coalbed Methane Outreach Program (CMOP) is pleased to host a delegation visiting from China.

Scheduled for Day Two of the conference are special remarks by The Honorable Wang Maoshe, Mayor of Jincheng, Shanxi Province, People's Republic of China.

Visit the [conference web site](#) for an updated agenda.

We look forward to having you join us for this blockbuster event!



## Upcoming CBM/CMM Events Summary

### 2009 U.S. Coal Mine Methane Conference

Sponsored by: U.S. EPA Coalbed Methane Outreach Program  
30 September – 1 October, 2009  
Boulder, Colorado  
Web site: [www.epa.gov/outreach/cmop/conf/cmm\\_conference\\_sept09.htm](http://www.epa.gov/outreach/cmop/conf/cmm_conference_sept09.htm)

### Climate Action Reserve Board Meeting

7 October, 2009  
CalEPA Headquarters Building, Sacramento, California  
Also available via webinar  
Web site: [www.climateactionreserve.org/2009/09/18/meeting-of-the-board-of-directors/](http://www.climateactionreserve.org/2009/09/18/meeting-of-the-board-of-directors/)

### Joint meeting of the Methane to Markets Coal Mine Subcommittee and the UNECE Ad Hoc Group of Experts on Coal Mine Methane

12-13 October, 2009  
Palais des Nations, Geneva, Switzerland  
Web site: [Methane to Markets October News and Events](http://Methane to Markets October News and Events)

### Climate Action Reserve Webinar on CMM Protocol Version 1.0

15 October, 2009  
10:00-11:00 PDT  
[Register online](#) or for more information contact: [Max DuBuisson](mailto:Max DuBuisson).

### North American Coalbed Methane Forum

21-22 October, 2009  
Morgantown, West Virginia  
Coordinator: Kashy Aminian, [khaminian@mail.wvu.edu](mailto:khaminian@mail.wvu.edu)

### 2<sup>nd</sup> Annual Asia Pacific CBM Week 2009

26-30 October, 2009  
Xi'an, China  
Web site: [www.alleventsgroup.com/cbm09](http://www.alleventsgroup.com/cbm09)

### 5<sup>th</sup> Asia Gas Congress 2009

29-30 October, 2009  
Renaissance Hotel, Beijing, China  
Web site: [www.chinadecisionmakers.com/gas](http://www.chinadecisionmakers.com/gas)

### Carbon Market Insights Americas 2009

2-4 November, 2009  
New York, New York  
Web site: [www.pointcarbon.com/events/conferences/cmia09/](http://www.pointcarbon.com/events/conferences/cmia09/)

### Stray Gas Workshop

4-6 November, 2009  
Pittsburg, Pennsylvania  
Web site: [http://pa.water.usgs.gov/stray\\_gas/](http://pa.water.usgs.gov/stray_gas/)  
Contact: [Dan Hippe](mailto:Dan Hippe)

### CBM Production Techniques

5-6 November, 2009  
Jakarta, Indonesia  
Contact: [nadia@cmtsp.com.sg](mailto:nadia@cmtsp.com.sg)

### 9th International Symposium on CBM/CMM and Carbon Trading

10-11 November, 2009  
Landmark Towers Hotel, Beijing, China  
Web site: [www.coalinfo.net.cn/cbmc](http://www.coalinfo.net.cn/cbmc)

### 9th International Mine Ventilation Congress

10-13 November, 2009  
New Delhi, India  
Web site: [www.9thimvc.org](http://www.9thimvc.org)

### UK Coal Mine Methane Conference

23-24 November, 2009  
Crowne Plaza Hotel—St. James, London, U.K.  
Web site: [www.smi-online.co.uk/cmm.asp](http://www.smi-online.co.uk/cmm.asp)

### Second Methane to Markets Partnership Expo!

2-5 March, 2010  
Taj Palace Hotel, New Delhi, India  
Web site: [www.methanetomarkets.org/expo](http://www.methanetomarkets.org/expo)

### 13<sup>th</sup> North American Mine Ventilation Symposium

13-17 June, 2010  
Sudbury, Ontario, Canada  
Web site: [www.mirarco.org/minevent](http://www.mirarco.org/minevent)

## CMOP Contacts

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Coalbed Methane Outreach Program, 6207J  
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Washington, DC 20460



Save the Date for

## The Second Methane to Markets Partnership Expo

Taj Palace Hotel, New Delhi, India

March 2-5, 2010

Join the world's largest forum for Methane Projects, Technology, Financing and Policy

The Methane to Markets Partnership Expo is the premier international forum for promoting methane recovery and use project opportunities and technologies. At the 2010 Expo, we anticipate welcoming over 1,000 participants and featuring more than 100 potential methane capture and use project opportunities!

The Expo provides participants with opportunities to:

- Showcase methane mitigation projects and technologies
- Meet with potential project partners and financiers
- Learn about the latest project opportunities, technologies, and services
- Explore key technical, financial, and policy issues
- Interact with high-level government agencies from 28 countries

The last Expo took place in Beijing, China in 2007 and included over 750 participants from 34 countries, 91 featured methane capture and use project opportunities, and numerous international exhibitors.

### Sponsorship and Exhibit Opportunities

We welcome inquiries from potential Expo sponsors. The Expo provides an unprecedented opportunity for companies to present themselves to high-level decision makers from around the world. For more information on sponsorship opportunities please contact the Methane to Markets Administrative Support Group.

### Call for Presentations and Projects

This year we are soliciting abstracts from Project Network members and delegates to be presented at the Expo. The submission deadline for abstracts has been extended to **October 30, 2009**.

Methane recovery or use projects will be showcased in a dedicated poster area. Project templates can be downloaded at [www.methanetomarkets.org/expo](http://www.methanetomarkets.org/expo) and must be submitted by **November 15, 2009**.

### Incredible India and the Taj Palace Hotel

The 2010 Expo will be held at the Taj Palace Hotel in New Delhi, India, one of the premiere hotels in all of India. The hotel is nestled on six acres of lush park in the exclusive Diplomatic Enclave of the city, just minutes away from the airport.

The Methane to Markets Partnership is an international partnership of 28 governments and more than 850 public and private sector organizations committed to developing methane capture and use projects in the agriculture, coal mining, landfill, and oil and gas sectors. For more information on the Methane to Markets Partnership Expo, please visit our web site.

We look forward to seeing you in New Delhi!