



GLOBAL METHANE INITIATIVE COAL SUBCOMMITTEE MEETING

15th Session of the Coal Subcommittee
16 May 2012
Webinar and Teleconference

FINAL MINUTES

The Global Methane Initiative (GMI) Coal Subcommittee held its 15th session on 16 May 2012 via webinar and teleconference. Attendees discussed updates from the Administrative Support Group (ASG), including country-specific Action Plans, Methane Expo 2013, the launch of the Climate and Clean Air Coalition to Reduce Short-Lived Climate Pollutants, and GMI's new social media strategies. Representatives from Partner countries shared updates relating to coal mine methane (CMM) activities. The subcommittee also discussed plans for the Coal Mining Methane Abatement Seminar and GMI Coal Subcommittee meeting in Sydney, Australia in September 2012, and the framework for the coal mines sector technical and policy sessions for Methane Expo 2013.

The following sections provide more details of the meeting discussions.

Opening Remarks and Introduction

The Coal Subcommittee met via webinar and teleconference. The meeting was attended by GMI Partner country delegates, Project Network members, and ASG staff. Twenty-six people, representing 10 countries, were present. A list of attendees is included as Annex 1 to these minutes. The meeting opened at 7:00 a.m. Eastern Daylight Time (EDT).

Presiding over the meeting was:

- Co-chair Dr. Pamela Franklin, team leader of U.S. Environmental Protection Agency's (U.S. EPA's) Coalbed Methane Outreach Program (CMOP).
- Co-chair Dr. Huang Shengchu, President of the China Coal Information Institute (CCII).

Dr. Franklin opened the meeting by expressing her appreciation for everyone's attendance at the Coal Subcommittee's webinar and teleconference meeting, noting she was especially appreciative of those attending at very early or very late hours in their home countries. She noted that while webinar and teleconference meetings do not replace the value of in-person meetings, they are beneficial and allow subcommittee members to touch base while saving time and travel money. She continued by stating the agenda for the meeting is very exciting, since it includes discussions about plans for the September 2012 in-person meeting in Sydney, Australia and the all-Partnership meeting, Methane Expo 2013, which will be held in Vancouver, Canada.

Dr. Franklin then shared some personal remarks, noting that she will be stepping down from her position as U.S. Co-chair of the Coal Subcommittee to take on new responsibilities at U.S. EPA. She thanked the Partner country delegates and Project Network members with whom she's worked on the Coal Subcommittee for the past six and one half years for their continued support of GMI, and gave a special thanks to Co-chairs Dr. Shengchu and Mr. A.K. Singh for their continued leadership. She expressed how

Coal Subcommittee Meeting Minutes

she's enjoyed planning and participating in subcommittee meetings, workshops, and expos. She informed everyone that Ms. Felicia Ruiz of EPA's CMOP, whom many subcommittee members may know, will be taking over as the U.S. Co-chair. Dr. Franklin noted the subcommittee will be in great hands under the leadership of Dr. Shengchu, Mr. Singh, and Ms. Ruiz. She then invited Co-chair Dr. Shengchu to give opening remarks.

Dr. Shengchu commented on the exciting agenda. He noted he looked forward to hearing updates on the preparation for the next Coal Subcommittee meeting in Australia for later this year and activities and preparation for Methane Expo 2013 in Canada. He also stated hopes the coal mines sector would be a strong presence at Methane Expo 2013. He thanked everyone for attending the webinar.

Dr. Franklin presented the agenda and moved to adopt it. Dr. Shengchu seconded the motion, and all attendees unanimously adopted the agenda. A copy of the final agenda is included as Annex 2 of these minutes.

Update from the Administrative Support Group

Ms. Monica Shimamura, with U.S. EPA, introduced herself as the ASG Co-Director for GMI and proceeded to provide an update on the ASG's activities since the October 2011 Partnership-wide meeting in Krakow, Poland.

- The revised GMI Action Plan guidance was released and is posted on the GMI website.
 - The ASG is asking all Partner countries, with assistance from Coal Subcommittee Partner country delegates, to update or complete their Country Action Plans in advance of Methane Expo 2013.
 - The Country Action Plans are intended to be a roadmap of where to go with regard to methane abatement projects within each country across all sectors.
 - Countries should also update their sector-specific Action Plans using the revised guidance documents. Sector-specific Action Plans focus on plans for each sector individually (e.g., coal mines).
 - The United States, Ethiopia, and Nicaragua are working on their Country Action Plans, which will hopefully be showcased at Methane Expo 2013.
- GMI is supporting the newly launched Climate and Clean Air Coalition (CCAC) to Reduce Short-Lived Climate Pollutants (SLCPs) initiative. Mr. Andrew Eil, who works on climate change foreign assistance programs at the U.S. State Department, gave an update on the initiative:
 - CCAC was launched in February 2012 by six countries, along with the United Nations Environment Programme (UNEP), to raise the profile of and concentrate efforts on addressing near-term climate warming caused by SLCPs, including methane, black carbon, and hydrofluorocarbons (HFCs).
 - UNEP houses the secretariat.
 - The coalition will seek to support and broaden—not replace—existing efforts, such as GMI. They have learned from GMI's expertise, including how the ASG is run as the secretariat. They are looking forward to partnering with GMI moving forward.
 - The coalition met in Stockholm, Sweden in April 2012 and added several new partners, most of which are also members of GMI. If any countries are interested in joining the coalition, they are always open to new partners. It is a voluntary partnership to exchange best practices, spread information, and coordinate efforts on national, regional, and global programs.
- GMI will hold the Methane Expo 2013 in Vancouver, Canada from 12-15 March 2013.
 - Environment Canada will be hosting this Expo.

Coal Subcommittee Meeting Minutes

- It will take on a similar structure to the 2007 Expo in Beijing, China, and the 2010 Expo in New Delhi, India.
- There will be one day of site visits and three days of general and sector-specific technical and policy sessions. There will also be an exhibition hall with project opportunity and success story posters displayed. All subcommittees will meet.
- Every two months an international task force holds a conference call to discuss Expo preparations. If you are interested in attending, contact the ASG (asg@globalmethane.org).
- The ASG put out a call for abstracts/speakers for the technical tracks and this solicitation ends 29 June 2012.
- The ASG will shortly put out a call for project opportunity posters, success stories, demonstration projects, and more.
- The ASG is requesting Partner country delegates and Project Network members publicize the Methane Expo 2013 by downloading the Expo flyer to put on websites and in newsletters (<http://www.globalmethane.org/expo/outreach.html>).
- GMI is increasing its presence in social media.
 - There is a new GMI LinkedIn page where colleagues can discuss relevant topics through the discussion board interface. Just make a profile on LinkedIn and search for GMI to join.
 - The GMI Facebook page is also being reactivated. It will be an open group where photos and information is posted. Just “like” GMI on Facebook to stay in touch.
- In addition to the items Ms. Shimamura discussed in more detail above, there were other important decisions/outcomes from the October 2011 Steering Committee meeting in Krakow, Poland.
 - Norway’s request to join GMI was approved; there are now 41 GMI Partners! Norway is active in the oil and gas sector.
 - The wastewater task force was elevated to subcommittee status. The Municipal Wastewater Subcommittee held its first webinar in April 2012 and will meet in person in Singapore in July 2012.

Partner Country Updates

Following the ASG updates, country delegates were asked to provide the subcommittee with updates on their countries’ CMM activities since the last subcommittee meeting and plans for the rest of 2012. Presentations submitted by country delegates to accompany their discussions can be found on the GMI website, at: http://www.globalmethane.org/news-events/event_detailsByEventId.aspx?eventId=385. Brief summaries of each update are provided below.

Australia

Mr. Wayne Calder (Australia’s Department of Resources, Energy and Tourism) gave a brief update on Australia’s activities and noted that his colleague, Ms. Emma Fagan, would describe the September 2012 Coal Mining Methane Abatement Seminar in more detail later on in the meeting.

Australia announced its Clean Energy Futures Package last year, and it has been noted the carbon pricing scheme will apply to fugitive emissions from coal mines. To assist with the transition to the new pricing scheme over the next five years, the government is introducing two packages. The Coal Mining Abatement Technology Support Package (CMATSP) is aimed at helping the industry develop technologies to reduce CMM emissions and improve health and safety at coal mines. It will also help small and medium sector industries develop methane abatement plans. The package will allocate \$70 million over five years starting in July 2012. The CMATSP technical advisory committee (TAC)—

Coal Subcommittee Meeting Minutes

comprised of industry experts, those in the research community, and industry regulators—was developed to provide expert guidance and assistance in implementing the package and determining which technologies are relevant and ready for commercialization. Projects that may be funded would be those that could be up and running full scale within five years. The TAC is focused on guiding projects that can accurately measure, capture, and use CMM emissions, while effectively considering health and safety aspects. Although the package is focused on the Australian mining industry, there are plenty of opportunities for international engagement. Starting in 2013, the government will consider offsets from other countries to reduce local liability. In addition, existing international technologies may be relevant to Australia now and this may also be an opportunity for technology developers to research and develop new technologies that can be used in Australia and elsewhere across the globe. In addition to CMATSP, the Coal Sector Jobs Package is aimed at the coal mines with the largest emissions and will help them reduce emissions so they can adapt to the carbon price over time. Both packages will help Australia meet its methane emissions reduction goals.

China

Mr. Liu Wenge (CCII) noted he was very glad to update the subcommittee on China's activities, citing important events that have been taking place in China for the past couple of months. For example, the Prime Minister attended the National Coal Mine Gas Prevention meeting in November 2011. In December 2011, the 11th International Symposium on coalbed methane (CBM)/CMM was held in Beijing, which was sponsored by the U.S. EPA and China and focused on coal mine safety.

The recovery and utilization volume of CMM has been increasing. The recovery volume increased by 1.7 billion cubic meters (m³) and the utilization volume increased by 1.2 billion m³, compared to 2010. In 2011, the total volume of CMM recovery and utilization was 9.2 billion m³ and 3.5 billion m³, respectively. The output of CBM was 2.3 billion m³ and the utilization volume was 1.8 billion m³ in 2011.

China's 12th Five-Year Plan on CBM/CMM development and utilization is very important, and suggests almost all drained CBM will be utilized and 60% of drained CMM will be utilized by 2015. Installed capacity of generator units is projected to surpass 2850 megawatts (MW) and civil use is project to surpass 3.2 million households. China intends to make great progress between 2010 and 2015.

The 12th Five-Year Plan also focuses on exploring for new CBM resources, setting up pipelines for CBM/CMM transportation, and increasing financial policies for utilization of low concentration CMM and ventilation air methane (VAM).

Lastly, Mr. Liu Wenge invited all the subcommittee members to the 12th International Symposium on CBM/CMM, which will be held on 8-9 November 2012 in Beijing. They are currently calling for papers and all are welcome to submit a paper and/or attend.

Mongolia

Dr. Badarch Mendbayar (Mongolian Nature and Environment Consortium [MNEC]) indicated Mongolia has vast coal resources, estimated at approximately 160 billion tons of coal reserves, and he noted most coal reserves are the in east, central, and southern areas of Mongolia. Coal production, consumption, and export—as well as methane leakage—continues to increase in Mongolia, and the Mongolian government projects these will keep increasing through 2025. Methane emissions from coal mining were approximately 250 billion m³ in 2010 and may increase to nearly 1 trillion m³ by 2025. To reduce methane gas emissions, Mongolia is focused on introducing effective coal processing and beneficiation technologies. A coal handling and preparation plant with a capacity of 15 million tons has been constructed at Ukhaa Hudag mine and other such plants are under investigation. The goal is to pair methane capture efforts with mining operations in the future.

Coal Subcommittee Meeting Minutes

Poland

Mr. Jacek Skiba (Central Mining Institute of Katowice) gave an update on Poland's activities. The Ministry of Economy is in discussions about how to increase methane capture and its efficient utilization in Polish hard coal mines, and they are considering establishing economic incentives to improve the situation. They are also discussing three proposals to stimulate methane capture and utilization, including:

- Poland's current support system gives preferential treatment to energy produced from CMM, but only for high cogeneration. The government is considering abandoning this idea because energy production from this option is only effective a couple of months per year, and the extent of heat pipelines limits capacity.
- They might also increase the value of the supplementary fee used in the present support system. Methane capture from coal seams can vary substantially and not all drainage gas is appropriate, and many coal companies do not recognize CMM as a source of energy first, but as a hazard. The value of the supplementary fee does not currently motivate them to increase their methane capture, since safe mining conditions are the primary motive.
- The most attractive option to pursue may be to establish a new support system for the development and utilization of VAM. VAM is recognized as capital-intensive and methane contained in VAM is 70 percent of the total methane realized during coal exploitation. There are several issues in Poland with regards to VAM that should be overcome so it can be utilized, and a support system would be beneficial.

The U.S. EPA issued a grant to Poland to focus on directional drilling ahead of mining operations. Poland is looking to apply lessons learned from shale gas to coal mines, and they will conduct a small workshop in May focused on this effort.

United States

Ms. Felicia Ruiz (U.S. EPA – Coalbed Methane Outreach Program [CMOP]) provided an update on the U.S. domestic strategy to reduce CMM emissions and international activities supported by the U.S. EPA through GMI.

Domestically, the United States is focusing on updating its Country Action Plan as well as its coal mines sector Action Plan. The coal sector Action Plan will include project barriers, programs to reduce emissions from the coal mines sector, stakeholders in the CMM industry, U.S. priorities, and more. It will be available for dissemination soon. U.S. underground coal mines have begun reporting their greenhouse gas emissions to the U.S. EPA and those data are available in a public database (<http://epa.gov/climatechange/emissions/ghgdata>). In addition, CMOP is preparing for the 2012 U.S. CMM Conference, which will be held in Las, Vegas, Nevada, on 24 September 2012, in conjunction with MINExpo, a large mining event held once every four years. Registration is now available for the U.S. CMM Conference at http://www.epa.gov/cmop/conf/cmm_conference_sept12.html.

Under GMI, U.S. EPA finalized the GMI Flaring Policy White Paper and conducted its 2011 grant solicitation. U.S. EPA is also working to update the Coal Subcommittee Action Plan and assisting with planning for the Methane Expo 2013 coal policy and technical sessions, for which Mr. Ray Pilcher will give an update on later in this meeting.

U.S. EPA's international efforts include:

- *China*. U.S. EPA completed five comprehensive CMM feasibility studies, one of which resulted in a joint venture for a CMM to liquefied natural gas (LNG) plant at Songzao coal mines in

Coal Subcommittee Meeting Minutes

Chongqing Province that will hopefully be operational in late 2012 or early 2013. U.S. EPA also completed a China Energy Markets Report, featuring market information on mines in four provinces; information on the fifth province from the feasibility studies will be added later this year. A Regional Handbook on degasification in south Shanxi Province was recently published as a result of a GMI grant to Virginia Tech, and the University of Colorado produced a database of abandoned mines in Shanxi province as a result of a GMI grant. In addition, two pre-feasibility studies were finalized and two new studies are being launched.

- *Colombia.* U.S. EPA may be conducting a scoping mission in 2012 or 2013.
- *India.* U.S. EPA visited the CMM Clearinghouse, Central Institute of Mining and Fuel Research (CIMRF) grantee, and Moondih mine in February 2012.
- *Kazakhstan.* U.S. EPA conducted a scoping mission in November 2011, in conjunction with a U.S. Trade and Development Agency (TDA) Definitional Mission for CBM/CMM. U.S. EPA is also developing mine profiles for one mine in the Karaganda Coal Basin.
- *Mongolia.* A pre-feasibility study is being launched and a GMI grant was awarded to MNEC to inventory CMM emissions.
- *Poland.* A GMI grant was also awarded to the Central Mining Institute (CMI).
- *Russia.* Uglemetan received a GMI grant to improve measurement of VAM emissions in the Kuzbass, and a pre-feasibility study was launched for one Russian mine.
- *Turkey.* Virginia Tech and TKI were awarded a GMI grant.
- *Ukraine.* A pre-feasibility study at one mine is being finalized and a second is underway.
- *Vietnam.* U.S. EPA conducted a scoping mission in November 2011.

U.S. EPA has also been active in planning the next in-person Coal Subcommittee meeting that will be held in Sydney, Australia in conjunction with the Australian government's Coal Mining Methane Abatement Seminar, on 4-6 September 2012.

Following Ms. Ruiz's presentation, Dr. Franklin clarified the various types of Action Plans. Each country is preparing a national methane Action Plan in response to the Steering Committee's directive. In addition, each country is creating a sector-specific Action Plan for each relevant sector. These sector-specific Action Plans could feed into the national Country Action Plan. On a separate track, the Coal Subcommittee developed an Action Plan for the subcommittee in 2005 that hasn't been revisited. It is now an action item for the subcommittee to review and revise the document given the industry has changed since 2005, plus a new Action Plan will help the subcommittee refocus its efforts. The Co-chairs will take on discussing and revising that Action Plan and developing drafts for circulation in the coming months and hopefully, the subcommittee can discuss the revised draft at the September in-person meeting. All subcommittee members should take part in developing the Coal Subcommittee Action Plan.

Vietnam

Dr. Phung Quoc Huy (Institute of Mining Science and Technology [IMSAT]) gave an overview on Vietnam's activities, stating this was Vietnam's first Coal Subcommittee update. He noted Vietnam has 10 open pit coal mines and 30 underground coal mines, which will produce about 45 million tons of coal in 2012. The main coal basin is 200 kilometers from the capital. The main mining method is longwall and most coal mines are gassy, but gas is only drained from one coal mine and is not utilized from any coal

Coal Subcommittee Meeting Minutes

mines yet. Specifically, the Khe Cham coal mine has an underground gas drainage and pipe system, and a gas dilution chamber above ground. To drain the methane, bore holes are drilled in the roof and the floor of the longwall. Subsequently, the rock wall collapses and the methane is drained from the bore holes. Every 50 meters, bore holes are drilled and one station is drained at a time.

Upcoming Coal Mining Methane Abatement Seminar and GMI Coal Subcommittee Meeting in Sydney, Australia

Ms. Emma Fagan (Australia's Department of Resources, Energy and Tourism) discussed the upcoming Coal Mining Methane Abatement Seminar in Sydney, Australia. Referencing her colleague Mr. Calder's presentation during the Australia update, she noted the CMATSP establishment is the first time there has been an economic incentive for the coal industry to reduce fugitive methane emissions. By 1 July 2012, companies will be able to offset 50 percent of their liabilities by investing in international mechanisms. The CMATSP is a \$70 million set aside to invest in technologies, research and development, and reducing greenhouse gas emissions by enhancing drilling and drainage systems and VAM projects. As such, the seminar will be focused on connecting the Australia coal industry with domestic and international CMM abatement technology providers, providing greater information for the Australian industry on future international investment opportunities when the flexible market is introduced, and promoting Australia's expertise and technologies relevant to CMM recovery and use. The seminar will hopefully provide greater background for international companies on the regulatory and safety standards in Australia. She emphasized Australia encourages international participation in this seminar, noting the major benefit is that any technologies developed that become commercially viable in Australia could be applied to other countries in the future.

The seminar—to be held 4-6 September 2012 at the InterContinental Hotel in Sydney, Australia—will consist of one and one-half days for the workshop, a half-day for the GMI Coal Subcommittee meeting, and one day for a site visit. The agenda is under development, but will likely focus on indirect technologies that help avoid methane from entering ventilation air and on direct CMM capture and use technologies. Australia is hoping to hear from health and safety regulators, and from those with true project experience. The presentations should focus on technologies that are commercially viable now or will be in the next 5 to 10 years rather than those that are in the preliminary development stage. There will also be key points that the presentations should address, including cost, safety abatement, case studies, and more. Several speakers have been identified but more will be approached soon.

The seminar flyer, which includes program information and registration information, will be distributed along with the meeting minutes and is available at: http://www.globalmethane.org/news-events/event_detailsByEventId.aspx?eventId=386. All Coal Subcommittee members are encouraged to register at: <http://www.tmm.com.au/whats-coming-up/details/73-GMI2012.html>.

Ms. Fagan asked the subcommittee to contact her colleague, Mr. Bruce Murphy, at bruce.murphy@ret.gov.au, if they have any questions about the seminar. Mr. Murphy will be the lead coordinator for the meeting from Australia's Department of Resources, Energy, and Tourism.

Coal Mines Sector Plans for Methane Expo 2013 in Vancouver, Canada

Mr. Ray Pilcher (Raven Ridge Resources, Inc.) updated the subcommittee on the coal mines sector plans for Methane Expo 2013. He started by reviewing the coal breakout sessions from the past two Expos in China and India, both of which were very successful meetings. The 2007 Expo in Beijing focused on project case studies, technologies, and policy and finance issues. There were several featured projects from China, India, Mexico, Nigeria, and Ukraine during the poster sessions which feature potential project opportunities. The 2010 Expo in New Delhi focused on policies and regulations impacting CMM

Coal Subcommittee Meeting Minutes

projects, status and trends in CMM project development, technology development on rich gas and VAM, and best practices guidance for CMM drainage and utilization. Potential projects were showcased from even more countries.

For the 2013 Expo, the call for papers has been posted to the GMI website (<http://globalmethane.org/expo/abstracts.html>). The coal mines sector technical sessions are going to focus on the following topics:

- Policy: encouraging and enabling greater use of CMM and VAM
- Best practices: safe and effective capture of CMM and VAM
- Technology: innovation and adaptation of technology for cost-effective use of CMM and VAM (building upon the important discussions in Australia in September 2012)
- Financing: carbon markets, incentives and funding sources

Presentations can also focus on country-specific profiles and the global market and methane abatement, especially with the Coal Subcommittee's adoption of the flaring white paper.

Several well-known professionals have been identified to organize the technical and policy sessions, including: Mr. Clark Talkington on policy (background with U.S. EPA and the United Nations, very focused on policy in his career), Dr. David Creedy on best practices (co-author of *Best Practice Guidance for Effective Methane Drainage and Use in Coal Mines* supported by GMI and the United Nations Economic Commission for Europe), Dr. Hua Guo from CSIRO on technologies (he has field experience and can provide a good link to the Australia meeting since that's where he is located), and Mr. Michael Cote on financing (with Ruby Canyon Engineering). They will recommend and encourage potential speakers to submit abstracts, review abstracts submitted to GMI for the coal mines sector and fill holes, and chair the session or nominate others to chair sessions.

Another key aspect of Methane Expo 2013 will be the poster sessions. The goal is to connect project opportunities with technical experts, equipment vendors, technical experts, and sources of finance. This has been done in the past by publishing and displaying posters describing projects and perceived needs (i.e., investment, technology, expertise). The Coal Subcommittee will need to identify project hosts that have the desire to describe their project and identify the help they need. They would submit project information to GMI for publication. Potential project ideas and project successes are both welcome. A call for these poster ideas will be disseminated soon.

Review of Action Items

Action items from the meeting include:

- The Co-chairs will update the Coal Subcommittee Action Plan and send it to subcommittee members for comment before the September 2012 Coal Subcommittee meeting in Sydney, Australia.
- Country delegates should work with other in-country representatives to develop the country-specific, national Action Plan and sector-specific Action Plans.
- Australia will continue to plan the Coal Mining Methane Abatement Seminar in Sydney, Australia, on 4-6 September 2012. Country delegates and Project Network members should

Coal Subcommittee Meeting Minutes

register for the seminar and GMI Coal Subcommittee meeting at: <http://www.tmm.com.au/whats-coming-up/details/73-GMI2012.html>.

- Mr. Pilcher and the team of experts will continue planning the coal-related technical and poster sessions for Methane Expo 2013.

Concluding Remarks and Adjournment

After brief concluding remarks from Mr. Liu Wenge, Dr. Franklin noted presentations from this webinar would be posted online. She then adjourned the meeting, thanking everyone for attending and reminding them to register for the Coal Mining Methane Abatement Seminar and GMI Coal Subcommittee meeting on 4-6 September 2012 in Sydney, Australia.

Annex 1 –Coal Subcommittee Meeting Participants



GLOBAL METHANE INITIATIVE COAL SUBCOMMITTEE MEETING

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Annex 1 –Coal Subcommittee Meeting Registrants

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**Italics denotes Project Network members*



GLOBAL METHANE INITIATIVE COAL SUBCOMMITTEE MEETING
FINAL AGENDA
Webinar and Teleconference
16 May 2012, 07:00 Eastern Daylight Time (EDT)

Welcome Addresses

- Co-chair Pamela Franklin (USA) and Co-chair Huang Shengchu (China)

Adoption of Agenda, Subcommittee Chairs

Update from the Administrative Support Group (ASG), Monica Shimamura, ASG, and Andrew Eil, U.S. Department of State

- New GMI Partners and activities
- Action Plans
- Methane Expo 2013: 12-15 March 2013, Vancouver, Canada
- The Climate and Clean Air Coalition to Reduce Short-Lived Climate Pollutants
- GMI and Social Media

Updates from Partner Countries

Brief updates from Partner Country delegates regarding activities in-country or in other Partner countries since October 2011, and an overview of activities planned for the rest of 2012.

- *Australia*
- *China*
- *Mongolia*
- *Poland*
- *United States*
- *Vietnam*

Coal Mining Methane Abatement Seminar and GMI Coal Subcommittee Meeting in Sydney, Australia, Emma Fagan, Australia Department of Resources, Energy and Tourism

- Dates and logistics
- Event details

Coal Mines Sector Plans for Methane Expo 2013 in Vancouver, Canada, Ray Pilcher, Raven Ridge Resources

- Framework for technical and policy discussions
- Ideas for showcasing coal mine methane project opportunities, technologies, and funding mechanisms

Adjournment