



**SPECIAL PARTNERSHIP
EXPO EDITION!**
www.methanetomarkets.org/expo

Methane International

The Methane to Markets Quarterly Update

The Methane to Markets Partnership is pleased to bring you this special edition highlighting the outcomes of the 2007 Methane to Markets Partnership Expo. Held 30 October–1 November 2007 in Beijing, China, the Expo was hosted by China's National Development and Reform Commission (NDRC) and the U.S. Environmental Protection Agency (U.S. EPA). All Expo information, including reports from the subcommittees, will be posted at www.methanetomarkets.org/expo.

What's Inside:

- The Partnership Expo at a Glance
- New Funding, Partnerships, and Projects Announced
- 91 Expo Projects Ready to Go
- Online Project Tracking System Matches Projects and Experts
- Partnership Expo Recap
- New Directions for 2008
- Thank you!



Minister Xie Zhenhua, Vice Chairman of China's NDRC, speaks at the Expo plenary session



**Methane to Markets
Partnership Expo**

www.methanetomarkets.org/expo

The Partnership Expo at a Glance

- 700 participants from 34 countries.
- Three days of concurrent sessions on four sectors (Agriculture, Coal Mining, Landfills, Oil & Gas Systems).
- 91 methane capture and use opportunities featured in the "Methane Capture Marketplace" that would yield estimated annual methane emissions reductions equivalent to 11.5 million metric tons of carbon dioxide equivalent (MMTCO₂E) by 2015.
- Media from around the world covered the Expo. Please visit www.methanetomarkets.org/expo for news coverage.



New Funding, Partnerships, and Projects Announced

During a press event held at the Partnership Expo on 31 October, the Methane to Markets Steering Committee co-chairs, Gao Guangsheng of NDRC and John Beale of U.S. EPA, commented on the achievements of the Methane to Markets Partnership and highlighted outcomes of the Partnership Expo. The co-chairs also announced the following:

- U.S. EPA will initiate a grant competition in the next few months with the goal of funding up to \$7 million to advance international Methane to Markets projects and activities. The official announcement will appear on www.methanetomarkets.org and www.epa.gov/methanetomarkets in November.
- U.S. EPA is working bilaterally with China to conduct a coal mine methane (CMM) capture and use feasibility study in 2008. This Methane to Markets Partnership effort will be an important step toward the U.S.-China goal to deliver up to 15 CMM projects as a part of the Strategic Economic Dialogue.
- In Australia, the first power plant in the world using coal mine ventilation air methane as primary fuel was recently officially opened and is in full operation at the West Cliff Colliery of BHP Billiton. The plant is generating high grade steam that operates a conventional 6 MWe turbine and is reducing 250,000 MTCO₂E each year.

For more information, visit <http://bhpbilliton.com/bb/investorsMedia/news/2007/nswPremierMorrislemmaOpensWorldfirstPowerGenerationProjectAtBhpBillitonsWestCliffMine.jsp>.

For official press releases and Expo media coverage from around the world, please visit www.methanetomarkets.org/expo.



91 Expo Projects Ready to Go!

The Partnership Expo featured 91 project opportunities in all four Methane to Markets sectors and in 11 countries. All project opportunities are available at www.methanetomarkets.org/expo/submit.htm and a few examples of the available opportunities are listed below:

Agriculture: Mato Grosso Swine Operation (Mato Grosso Province, Brazil). A farrow-to-finish swine operation (127,000 pigs) currently employs a flush barn with anaerobic lagoon treatment. The existing manure disposal method is land application. The proposed methane recovery system is a covered lagoon digester and the resulting biogas will be

utilized for electricity. Estimated average annual reductions: 71,730 MTCO₂E.

Coal Mines: Singrauli Coalfield (Varanasi, Uttar Region, India). Singrauli Coalfield has a present production of 52 million tons per year and dip side extension of the mines are being planned to expand production. At present, there is no system of methane drainage and CMM utilization. The project envisions pre-drainage of methane before face advancement and the drained methane could be utilized for power generation or to supplement the need of local power plants. Estimated average annual reductions: 1,000,000 MTCO₂E.

Landfills: Chernivtsi Landfill (Chernivtsi, Ukraine). Chernivtsi sanitary landfill, opened in 1995, accepted approximately 82,467 tons of waste in 2006. The current landfill area is expected to close in 2012 with an estimated capacity of 1.3 million tons of waste. Preliminary biogas modeling estimates that 544 m³/hr of biogas at 50 percent methane is currently recoverable for capture and use, and that will rise to a peak of approximately 696 m³/hr shortly after closure in 2012. Project options include electricity generation, direct use, or flaring only. Estimated average annual reductions: 37,778 MTCO₂E.

Oil & Gas Systems: Petroleos Mexicanos (PEMEX) Case Study (Mexico City, Mexico). PEMEX is a nationally owned oil and gas company that not only supplies Mexico with oil products and natural gas but also owns more than 3,000 facilities that produce, refine, process, transport

(land/water), store, and sell crude oil to other countries. PEMEX has ongoing and planned methane reduction activities.

It's not too late to contact projects as an investor or developer. For all project specifications and contact information,

Online System Matches Projects with Partners and Experts

Are you looking for project partners? Are you looking for assistance with your project? Do you have an idea for a new project? The online Methane to Markets Project Tracking System is ideal for Partners and Project Network members seeking to collaborate on methane capture and use activities. It contains useful information on dozens of projects. Soon it will also contain information on all of the project opportunities showcased at the Partnership Expo.

Whether you are a Partner or Project Network member with a project to enter or you are interested in identifying a project, visit www.methanetomarkets.org/projects/index.htm.

please visit www.methanetomarkets.org/expo/submit.htm.

Partnership Expo Recap

Policy and Technical Sessions



The **Agriculture sector** breakout sessions included case studies to illustrate countries' experiences with anaerobic digester (AD) development and integration of appropriate AD technologies into bioenergy systems. Participants also discussed working with international partners to promote project development; measurement, verification, baseline, and accounting issues of emission reductions; and how Methane to Markets can assist in overcoming barriers.

Coal Mining sector breakout sessions focused on CMM opportunities and advances, with case studies on



technologies and projects from six countries. Discussion also covered financing CMM projects, addressing project financing risks, and policy issues.

In the **Landfill sector**, breakout sessions highlighted new developments in estimating landfill methane recovery and lessons learned from landfill methane utilization projects. Participants also discussed technical perspectives on transitioning landfill biogas to beneficial use. Finding carbon finance for landfill methane projects and issues in bringing smaller scale projects to market were also discussed at length.



The **Oil and Gas sector** breakout sessions focused on case studies; policy, regulatory issues and climate change. Sessions also concentrated on issues unique to this sector such as natural gas compression and methane leak detection; upstream production—oil and gas wells; processing, transmission and distribution; and associated gas production and utilization.

Business Meetings

Representatives from 17 Methane to Markets Partners (Argentina, Australia, Canada, China, Ecuador, Germany, India, Italy, Japan, Mexico, Nigeria, Poland, Republic of Korea, Russia, United Kingdom, United States, and the European Commission) attended the Steering Committee meeting. The Steering Committee reviewed the various activities and challenges in Partner Countries and in all four sectors. Agenda items focused on strategic planning to advance the goals of the Partnership, engaging the Project Network, increasing outreach and communication efforts, and examining additional opportunities for methane capture and use around the world.

In addition, all four sector subcommittees met during the Expo to begin outlining 2008 activities in accordance with the Steering Committee's plans. Proceedings from all the Partnership Expo Business meetings will soon be posted at www.methanetomarkets.org/expo.

New Directions for 2008

During their meeting at the Expo, the Steering Committee discussed plans for the Partnership's work for the next year and beyond. Steering Committee delegates invited the European Commission into the Steering Committee and appointed Ecuador as Vice-Chair of the Landfill Subcommittee.

The Steering Committee decided that the Partnership should develop mechanisms to increase the involvement of the Project Network and to showcase exemplary activities. Subcommittees were tasked to identify ways to enhance Project Network recognition over the next year. All Subcommittees will meet twice in 2008 – once in the first half of the year and once in October or November of 2008 in conjunction with the next Steering Committee meeting.

Additionally, the Steering Committee will continue preparing the Partnership-wide Methane to Markets Accomplishments Report for publication in late 2008 or 2009. Finally the Steering Committee agreed that the Partnership Expo was a great success and that a full evaluation should be conducted to inform the preparations for another Partnership Expo tentatively planned for 2009.

For more information about *Methane International* or the Methane to Markets Partnership, please visit www.methanetomarkets.org or contact the Administrative Support Group at asg@methanetomarkets.org.



Thank you!

The Methane to Markets Partnership thanks the organizations that facilitated this monumental event.

Hosts



National Development and Reform Commission



Co-Hosts



Ministry of Foreign Affairs



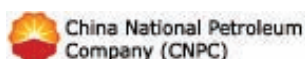
Ministry of Construction



Ministry of Agriculture



State Administration of Work Safety



Organizing Sponsors



Australian Government



Environment Canada



Organizers

