



# **Methane to Markets**

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## **Closing Plenary and Steering Committee Report**

**5<sup>th</sup> Methane to Markets Steering Committee Meeting**

**Monterrey, Mexico**

**29 January 2009**

# Overview

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- Recap of Site Tours and Technical Sessions
- Steering Committee Agenda and Topics for Discussion
- Key Steering Committee Decisions
- Charge to Subcommittees
- Conclusions

# Closing Plenary

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- Gratitude to our Mexican meeting hosts and sector facilities!
- Exciting two days of site tours and technical sessions!
- Moving forward. . .

# Agriculture

- **Site Visit**

- The Subcommittee visited Ana Margarita swine farm, which operates a covered lagoon anaerobic digester.



- **Technical Workshop**

- *Session I: Technical Considerations for digestion of agri-food wastes and project identification*
  - Physical, Chemical, and Biological Properties and Impacts on Gas Production
  - Preliminary results of country resource assessments
  - CDM Methodologies for calculating GHG reductions from co-mingled and non-manure waste in AD systems

# Technical sessions at the workshop

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- **Technical Workshop (continued)**
  - *Session 2: AD Systems in Europe*
    - Co-digestion: The European Experience
    - The UK Experience with Food Waste and AD
  - *Session 3: Project Case Studies*
    - AD projects using Palm Oil as a substrate
    - Sugar Cane Processing Waste Project in the Philippines
    - Recovering Methane from Slaughterhouse Wastes in Colombia
    - An AD system in a juice processing plant in Mexico
- **Discussion Topics**
  - Anaerobic digestion of agro- industrial waste is a good way to reduce methane emissions and create renewable energy

# Coal Mines

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- Visit to Minerales Monclova (MIMOSA) facilities:
  - Underground tour of Esmeralda Mine
  - Technical visit to ventilation vertical shaft, degasification facilities, and gob well drill site.
  - Introduction to MIMOSA's CBM project implementation
  
- Technical sessions included:
  - Opportunity for CMM Projects in Coahuila State
  - Experiences and Plans for CMM Project at Mexico Mines
  - CMM Drainage Strategies for the Sabinas Coal Basin
  - Feasibility Study of LNG and Power Generation at Songzhao Coal Mines, Chongqing, China

# Coal Mines

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- Technical sessions (*continued*):
  - Long-Term Abandoned Mines Methane Recovery Operation in the United States
  - Mitigation of Ventilation Air Methane and Generation of Carbon Credits: Case Study in the United States

# Landfills

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- Site visit to Simeprode's Monterrey Landfill
  - Currently generating over 12 MW of electricity
- Technical Workshop Focused on:
  - Overcoming Barriers to Project Development
  - Operational Barriers: Leachate Management and Removal
  - Institutional Barriers: Permitting and negotiating contracts with end users and utilities



# Landfills

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- Technical Workshop (continued):
  - Demonstrated new modeling tools for landfill gas
  - Highlighted Country-specific Actions
    - Mexico explained its relationship with Methane to Markets and its action plan for screening and evaluating landfills for energy recovery potential
    - Argentina reviewed its business plan and progress made under a Methane to Markets grant for using LFG to fuel a Pyrolytic Furnace for Medical Waste

# Oil & Gas

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- Tour of PEMEX Burgos Gas Processing Complex, including field demonstration of leak detection technologies and methane emissions measurement/quantification.
  
- Technical sessions included:
  - Completions in Gas Wells and Smart Automation of Gas Well Plunger Lifts
  - Optimization of Glycol Dehydrators and Pneumatic Controller Opportunities
  - Directed Inspection and Maintenance (DI&M): Techniques and Technologies for the Identification, Quantification and Repair of Fugitive Emissions
  - Vapor Recovery from Oil and Condensate Storage and Holding Tanks

# Oil & Gas

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- Technical sessions (*continued*):
  - Reciprocating and Centrifugal Compressors
  - Using Hot Taps and Pipeline Pumpdown Techniques
  - Leak Detection, Measurement and Mitigation Case Study
  - Financing Projects through Carbon Markets

# Steering Committee Agenda

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- Country Statements and Updates
- Chile's Request to Join Partnership
- Finland's Request to Join Steering Committee
- Progress Reports from Subcommittees
- Discussion of:
  - Project Network Status and Future Engagement
  - Outreach and Communication Efforts
  - Partnership-wide Accomplishments Report
  - Next Partnership Expo
  - Potential Agriculture Sector Expansion
  - Future of Partnership and Potential Ministerial Meeting
- Charge to Subcommittees

# Participation

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- 14 Partner countries were represented at the Steering Committee, and 25 countries represented at the event.
  
- Steering Committee welcomes Chile to the Partnership (28) and Finland as newest Steering Committee member (21).
  
- Steering Committee plans to meet again in late 2009.
  - Subcommittees should plan to meet once more in 2009.
  - Teleconferences might also be necessary to facilitate planning for second Partnership Expo.

# Subcommittee Reports

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## ■ Agriculture

- Chairs: Argentina and United Kingdom
- 9 countries have completed country-specific action plans identifying key barriers and actions to address them.
- Very interested in possibility of expanding into new agricultural sources of methane

## ■ Coal

- Chairs: China, India, and United States
- 7 countries have completed country-specific action plans identifying key barriers and actions to address them.
- Significant coordination with UNECE (including potential to host next meeting)
- Significant progress on improving existing tools for capacity building and project development in this sector

# Subcommittee Reports (con't)

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## ■ Landfill

- Chairs: Argentina, Ecuador, and Italy
- 9 countries have completed country-specific action plans identifying key barriers and actions to address them.
- Much progress on tools such as International Landfill Database and tailored landfill gas models
- Very interested in implementing Regional Subcommittee meetings

## ■ Oil and Gas

- Chairs: Canada, Mexico, and Russia
- 4 countries have completed country-specific action plans identifying key barriers and actions to address them.
- Interest in using new Japan GOSAT
- Progress on additional tools (ON TIME) and recruiting potential new partner countries

# Steering Committee Decisions: Project Network Status/Engagement

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**Discussion included an overview on the status of the Methane to Markets Project Network and recommendations on possible ways to boost PN recruitment and increase participation.**

## **Decisions:**

- Continue and enhance outreach efforts to recruit new PN members and encourage stronger PN participation of existing PN members (particularly financial institutions).
- Create added incentives by providing a robust service and technology provider directory.
- Place greater emphasis on promoting PN success stories and/or activities in existing outreach venues (e.g., newsletter, Web site, Expo).



# Steering Committee Decisions: Outreach and Communications

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**Discussion included an update on follow-up to the Beijing meeting and recommendations for how to continue to improve outreach and communications.**

## **Decisions:**

- Redesign and enhance the Methane to Markets Web site.
- Distribute outreach materials and/or make presentations at energy- or industry-related conferences (e.g., COP side events).
- Utilize the *Methane International* newsletter to highlight projects, conferences, or other success stories.

# Steering Committee Decisions: Outreach and Communications (con't)

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## Decisions (*continued*):

- Secure greater press and media exposure, and provide updates to the ASG for inclusion on the Web site.
- Review, update, and/or add information to the online project tracking system.

# Steering Committee Decisions: Accomplishments Report

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Discussion included an overview of a proposed Partnership-wide Accomplishments Report—which will serve as an overview of the Methane to Markets history, international participation, and activities and achievements since the program’s inception—as well as review of the proposed development schedule (to be published by December 2009).

## Decisions:

- Charge to Subcommittees to provide information to the ASG and serve as primary report reviewers.
- Adopt proposed development schedule (see next slide).

# Steering Committee Decisions: Accomplishments Report Cont'd

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## Decisions (Schedule):

- Draft text ~ June 2009.
- Graphic layout ~ September 2009.
- Final report ~ December 2009.

# Steering Committee Decisions: Next Partnership Expo

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**Discussion included a summary of the success of the 2007 Beijing Expo, an update on the progress of Task Force's planning efforts for the second Methane to Markets Partnership Expo (tentatively scheduled for early 2010), and key resources and other planning issues that are critical to ensure the next Expo's success.**

## **Decisions:**

- Location and date for next Expo: New Delhi, India in early 2010.
- Encourage early and frequent Expo marketing, particularly as it relates to project development successes from Beijing Expo.
- Identify sponsors and/or in-kind services.
- Begin sector-specific session development, obtain updates on previously-featured projects, and identify new projects.
- Consider cross-cutting issues (e.g., financial, interconnections among sector areas).

# Steering Committee Decisions: Agriculture Sector Expansion

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**Discussion focused on issues involved in potential expansion into mitigation opportunities from enteric fermentation and rice cultivation. These are large sources of anthropogenic methane, but the mitigation opportunities and barriers differ significantly from existing Methane to Markets sources.**

## **Decisions:**

- Conduct further work to identify role for Methane to Markets in enteric fermentation and rice cultivation sectors.
- Attend the UNFCCC AWG-LCA to observe and report back.

# Steering Committee Decisions: Future of Partnership/Ministerial Meeting

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**Discussion on the future of the Partnership, which included identification of some issues that might be considered as Partners reevaluate the original Methane to Markets Terms of Reference (TOR) and possible options for advancing these discussions of the Partnership's future (e.g., Ministerial meeting).**

## **Decisions:**

- ASG will develop a white paper (with input from Partners) exploring potential new direction(s) and establish a process to discuss evolution and any potential changes to the TOR.
  - Scope (e.g., waste water, other agriculture sources)
  - Structure of activities
  - Mechanism(s) of Partnership administration (e.g., Steering Committee membership)
  - Consider a second Ministerial Meeting.
- Initiate planning for additional Steering Committee Meeting.



# Methane to Markets

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## **Charge to M2M Sector Subcommittees**

**29 January 2009**



# Thanks to Subcommittees

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- Subcommittee Chairs updated Steering Committee with progress reports.
- Work of the Subcommittees over last year has been impressive.
- Steering Committee wishes to thank the Subcommittees for excellent reports and considerable work over the past year.

# Charge to Subcommittees: Action Plans

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- Continue efforts to complete country-specific action plans, including activities for further engagement of the PN.

# Charge to Subcommittees: Project Network

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- Continue outreach efforts to recruit new PN members.
- Encourage stronger participation and engagement of PN members, particularly from the financial sector.
  - Providing greater attendance incentives (e.g., speaking opportunities).
  - Explore possibility of coordinating regional meetings.
  - Schedule meetings in conjunction with other energy- or industry-related conferences (e.g., ISWA).
- Facilitate PN recognition through informal venues (e.g., newsletter, Web site, Expo).

# Charge to Subcommittees: Outreach and Communications

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- Work with the ASG to redesign and enhance the Web site (e.g., suggest possible input or ideas for improvement).
- Distribute outreach materials and/or make presentations at related conferences.
- Utilize the M2M newsletter to highlight projects, conferences, or other success stories.
- Undertake media outreach and provide links to Press releases or other news items for inclusion on the Web site.
- Utilize the online project tracking system to facilitate greater information sharing on projects and activities.

# Charge to Subcommittees: Accomplishments Report

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- Provide information to the ASG (via template), including:
  - Project and activity description
  - Potential or actual methane reductions
  - Financial support (e.g., budget, leveraged funds)
  - Outcomes and results, including other environmental co-benefits
  - Photos or other associated graphics
  
- Serve as primary reviewers in lieu of a Report Task Force (see next slide).

<b>Stage of Development*</b>	<b>Response Timeframe/ Anticipated Deadline</b>
Subcommittee delegates and Project Network members will provide the ASG with project and activity information.	60 days from receipt of templates (~ mid-April 2009)
Steering Committee will provide comments on the cover and page designs.	45 days from receipt of design concepts and interior page layouts (~ mid-May 2009)
Subcommittees will review text version of the report and provide comments to the ASG. Project Network members who submitted information to the ASG will also review relevant sections of the report and provide comments.	45 days from receipt of full text version (~ early to mid-July 2009)
Steering Committee and Subcommittees will review the graphics version of the Report, and provide comments to the ASG.	45 days from receipt of graphics version (~ early to mid-October 2009)
ASG will circulate final version of the report to Steering Committee for final approval. Only minor typos and corrections will be accepted during this review.	14 days from receipt of final version (late October 2009)

# Charge to Subcommittees: Next Partnership Expo

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- Provide assistance in developing the sector-specific policy and technical sessions.
- Obtain updates on the projects presented at the 2007 Expo.
- Identify new projects to feature at the next Expo.

# Charge to Subcommittees: Future Meetings

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- Subcommittees should plan to meet once more in 2009.
- Teleconferences might also be necessary to facilitate planning for second Partnership Expo.



# Steering Committee Conclusions

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- Robust discussion at the Steering Committee level
- Great insights from all country representatives
- Poised for greater success
- Questions?