


AT-A-GLANCE AGENDA

Tuesday, 2 March 2010

08:00 – 13:00	Sector-Specific Site Tours: Agriculture and Landfills	Exhibitors Set-up Starting at 13:00
10:00 – 18:00	Steering Committee Meeting: Open to Steering Committee Delegates and Official Observers only	
16:30 – 19:30	Early Registration	

Wednesday, 3 March 2010 – Day 1

08:30 – 09:30	Registration					Exhibits Open
09:30 – 11:30	Opening Plenary Session <ul style="list-style-type: none"> Welcoming by Hosts Keynote Address on “The Importance of Methane to Climate Change and Copenhagen Outcomes” Methane to Markets Vision of the Future Key Statements by Government of India Ministries Future of International Financing for Methane Projects Vote of Thanks 					
11:30 – 12:30	Tea Break and Inauguration of Exhibits					
12:30 – 13:30	Roundtable I: National Policy Frameworks to Support Methane Project Development					
13:30 – 14:30	Lunch					
14:30 – 16:00	Technical Breakouts: Session 1					
	Agriculture Addressing the Financing Barrier	Coal Policies and Regulations Impacting Coal Mine Methane (CMM) Projects	Landfill Advancing Landfill Biogas Projects	Oil & Natural Gas Introduction to Methane to Markets Activities in the Oil & Natural Gas Sector and Partner Case Study (India)	Steering Committee Open to Steering Committee Delegates and Official Observers only	
16:00 – 16:30	Tea Break					
16:30 – 18:30	Technical Breakouts: Session 2					
	Agriculture Strategies and Policies to Overcome Barriers and Implement Anaerobic Digestion (AD): Part 1	Coal Status and Trends in CMM Project Development	Landfill Site Operations for Improving Gas Recovery and Site Safety	Oil & Natural Gas Partner Examples and Experiences (Mexico, China, Ukraine)	Steering Committee Open to Steering Committee Delegates and Official Observers only	
18:30 – 20:00	Grand Opening Reception in Exhibit Area: Sponsored by Oil and Natural Gas Corporation Ltd. (ONGC)					

BLUE = General Sessions

GREEN = Sector-Specific Sessions

RED = Exhibits

Thursday, 4 March 2010—Day 2

08:30—09:30	Exhibits Open					Exhibits Open
09:30—10:15	Roundtable II: Financing Mechanisms					
10:20—11:30	Technical Breakouts: Session 3					
	Agriculture Strategies and Policies to Overcome Barriers and Implement AD: Part 2	Coal Policy and Regulation in India	Landfill Assessing Landfill Gas (LFG) Project Potential: Part 1	Oil & Natural Gas GHG Management and Measurement at Corporate and Global Level	Steering Committee Open to Steering Committee Delegates and Official Observers only	
11:30—12:00	Tea Break					
12:00 – 13:30	Technical Breakouts: Session 4					
	Agriculture Overcoming Barriers of Scale: Project Bundling	Coal Technology Development in the CMM Sector: Rich Gas	Landfill Methane to Markets Grants Supporting Innovative LFG Utilization Technologies	Oil & Natural Gas Reducing Methane Emissions from Wet Seal Centrifugal Compressors (Russia and Mexico)	Steering Committee Open to Steering Committee Delegates and Official Observers only	
13:30 – 14:30	Lunch					
14:30 – 16:00	Technical Breakouts: Session 5					
	Agriculture Opportunities to Use AD Across the Food and Agriculture Sector	Coal Technology Development in the CMM Sector: Lean Gas or Ventilation Air Methane (VAM)	Landfill Assessing LFG Project Potential: Part 2	Oil & Natural Gas Reducing Emissions from Natural Gas Wells: Capture and Utilization of Associated Gas	Steering Committee Open to Steering Committee Delegates and Official Observers only	
16:00 – 16:30	Tea Break					
16:30 – 18:30	Technical Breakouts: Session 6					
	Agriculture Other Agricultural Sources of Methane	Coal Best Practices Guidance for CMM Drainage and Utilization	Landfill LFG Projects and the Clean Development Mechanism	Oil & Natural Gas Methane Emission Detection, Quantification, and Mitigation	Steering Committee Open to Steering Committee Delegates and Official Observers only	
18:30 – 20:00	Reception					

BLUE = General Sessions

GREEN = Sector-Specific Sessions

RED = Exhibits

Friday, 5 March 2010—Day 3

08:30—09:30	Exhibits Open			
09:30—10:15	Roundtable III: Gas End-Use Technology			
10:15—11:30	Closing Plenary Session <ul style="list-style-type: none"> • Wrap-up Remarks • Steering Committee Report and Decisions 			
11:30—12:00	Tea Break and Exhibits Close			
12:00 – 13:30	Subcommittee Meetings			
	Agriculture	Coal	Landfill	Oil & Natural Gas
13:30 – 14:30	Lunch in Meeting Space			
14:30 – 17:00	Subcommittee Meetings			
	Agriculture	Coal	Landfill	Oil & Natural Gas
17:00	Adjournment			

BLUE = General Sessions
GREEN = Sector-Specific Sessions
RED = Exhibits



Methane to Markets Partnership Expo

New Delhi, India • 2–5 March 2010

Tuesday, 2 March 2010

08:00 – 13:00 **Agriculture Site Tour**

08:30 – 12:30 **Landfill Site Tour**

10:00 – 18:00 **Steering Committee Meeting:** Open to Steering Committee Delegates and Official Observers only

16:30 – 19:30 Early Registration

Wednesday, 3 March 2010

PLENARY SESSION

08:30 – 09:30 Registration

09:30 – 11:30 **Opening Plenary Session**

Welcome Address

Federation of Indian Chambers of Commerce and Industry (FICCI)

Ambassador's Address

The Honorable Timothy J. Roemer, United States Ambassador to India (invited)

Keynote Address: The Importance of Methane to Climate Change and Copenhagen Outcomes

Shri Jairam Ramesh, Honorable Minister of State (Independent Charge) for Environment and Forests, Government of India

Methane to Markets Vision of the Future

Gina McCarthy, Assistant Administrator, U.S. Environmental Protection Agency (U.S. EPA)

Key Statements from Ministries of Government of India

- *Deepak Gupta, Secretary, Ministry of New and Renewable Energy*
- *M. Ramachandran, Secretary, Ministry of Urban Development*
- *Alok Preti, Additional Secretary, Ministry of Coal*
- *Additional Secretary, Ministry of Petroleum and Natural Gas*

Future of International Financing for Methane Projects

Woochong Um, Deputy Director General, Asian Development Bank (ADB)

Vote of Thanks

Rita Roy Choudhury, Joint Director & Team Leader, Environment & Climate Change Division, FICCI

11:30 – 12:30 Tea Break and Inauguration of Exhibits

12:30 – 13:30 **Roundtable I: National Policy Frameworks to Support Methane Project Development**

Moderator: Ulrich Benterbusch, International Energy Agency (IEA)

- *Speaker from China's National Development and Reform Commission (invited)*
- *Sandra D. Herrera, Undersecretary for Environmental Regulation, Mexico Ministry of Environment and Natural Resources*

13:30 – 14:30 Lunch

Wednesday, 3 March 2010

AGRICULTURE SECTOR

14:30 – 14:45 **Introduction and Welcome**

Agriculture Subcommittee Co-Chairs Jeremy Eppel, United Kingdom Department for Environment, Food and Rural Affairs (DEFRA) and Jorge Hilbert, Argentina Instituto Nacional de Tecnología Agropecuaria (INTA)

Session 1 – Addressing the Financing Barrier

Moderator: Jeremy Eppel, DEFRA

14:45 – 15:00 **Clean Development Mechanism (CDM): How it Works and New Carbon Finance Instruments (Post-Kyoto)**

Monali Ranade, World Bank

15:00 – 15:15 **Energy for All Partnership**

Jiwan Acharya, Asian Development Bank (ADB)

15:15 – 15:30 **Financing Projects in India**

K. Umamaheswaran, GTZ International Services

15:30 – 16:00 **Discussion**

16:00 – 16:30 Break

Session 2 – Strategies and Policies to Overcome Barriers and Implement Anaerobic Digestion: Part 1

Moderator: Anil Dhussa, India Ministry of New and Renewable Energy (MNRE)

16:30 – 16:55 **Overcoming Information Barriers: AD Resource Assessments**

Miguel Franco, PA Consulting

16:55 – 17:10 **Overcoming Performance Barriers: Low-Cost Applications of AD to Livestock Waste**

Preethi Gopalan, University of Queensland

17:10 – 17:25 **Overcoming Grid Injection Barriers for Biogas**

Surendra Kumar, IIT Roorkee

17:25 – 17:40 **Overcoming Measurement/Evaluation Barriers: Quantifying Fugitive Methane Emissions from Biodigesters**

Raymond Desjardins, Agriculture and Agri-Food Canada

17:40 – 17:55 **Overcoming Measurement/Evaluation Barriers: International Guidance for AD Systems**

Jorge Hilbert, INTA

17:55 – 18:30 **Discussion**

18:30 – 20:00 **Grand Opening Reception in the Exhibit Area: Sponsored by Oil and Natural Gas Corporation Ltd. (ONGC)**



Wednesday, 3 March 2010

COAL SECTOR

14:30 – 14:35 **Introduction and Welcome**

Dr. Jayne Somers, U.S. Environmental Protection Agency (U.S. EPA)

Session 1 – Policies and Regulation Impacting Coal Mine Methane (CMM) Projects

Moderator: Felicia Ruiz, U.S. EPA

14:35 – 14:50 **Australia's Experience and Its Impact on CMM Project Development**

John Karas, Australia Department of Resources, Energy and Tourism

14:50 – 15:10 **Mexico's Experience Reducing Barriers and Developing New CMM Recovery and Use Projects**

Mario Santillan, MINOSA

15:10 – 15:30 **Developments in Ukraine and "Best Practices" for Regulatory Policies**

Meredydd Evans, PNNL/Battelle

15:30 – 15:50 **China CBM/CMM Incentive Policies**

Liu Wenge, China Coal Information Institute (CCII)

15:50 – 16:00 **Discussion**

16:00 – 16:30 Break

Session 2 – Status and Trends in CMM Project Development

Moderator: Richard Mattus, MEGTEC Systems

16:30 – 16:35 **Brief Introduction and Overview**

Richard Mattus, MEGTEC Systems

16:35 – 16:50 **Status and Trends in CMM Development: China, United States, and Eastern Europe**

Ray Pilcher, Raven Ridge Resources, Incorporated

16:50 – 17:05 **From Coalface to Grid – CMM as a Resource**

Thomas Breheny, Harworth Energy Ltd. (UK)

17:05 – 17:20 **Trends in CMM Project Development in Poland**

Jacek Skiba, Poland Central Mining Institute

17:20 – 17:35 **Developments in India**

Prem Sawhney, ESSAR

17:35 – 17:50 **Great Potential for CBM/CMM Recovery and Utilization and Preferential Policies**

Dr. Huang Shengchu, CCII

17:50 – 18:30 **Panel Discussion**

18:30 – 20:00 **Grand Opening Reception in the Exhibit Area: Sponsored by Oil and Natural Gas Corporation Ltd. (ONGC)**



Wednesday, 3 March 2010

LANDFILL SECTOR

14:30 – 15:00 **Introduction and Welcome**

Landfill Subcommittee Chair Gabriel Blanco, Argentina Ministry of Environment

Session 1 – Advancing Landfill Biogas Projects

15:00 – 15:30 **Waste and Climate Change**

Dr. Atilio Savino, International Solid Waste Association (ISWA)

15:30 – 16:00 **Successful Registration of Clean Development Mechanism (CDM) Project for Earning Carbon Credits from Gorai Closure Project**

R.A. Rajeev, Municipal Corporation of Greater Mumbai

16:00 – 16:30 **Implementing a Project After a Pre-Feasibility Study**

Dr. Amiya Kumar Sahu, National Solid Waste Association of India (NSWAI)

16:30 – 17:00 Break

Session 2 – Site Operations for Improving Gas Recovery and Site Safety

17:00 – 17:30 **Landfill Operations to Improve Installation of Cap and Gas Collection**

Amarjit Riat, County of Fairfax, Virginia

17:30 – 18:00 **Improving Landfill Gas (LFG) Recovery Using Permeable Layers: India Feasibility Study**

Don Augenstein, Institute for Environmental Management

18:00 – 18:30 **Case Study: Improving Landfill Operations Using GHG Credits from LFG Collection in Colombia**

Jose Luis Davila, SCS Engineers

18:30 – 20:00 **Grand Opening Reception in the Exhibit Area: Sponsored by Oil and Natural Gas Corporation Ltd. (ONGC)**



Wednesday, 3 March 2010

OIL AND GAS SECTOR

14:30 – 15:00 **Introduction and Welcome**

V.K. Dewangan, India Ministry of Petroleum and Natural Gas

A.K. Hazarika, Oil and Natural Gas Corporation Ltd. (ONGC)

Oil and Gas Subcommittee Chairs from Mexico, Russia, and Canada

Session 1 – Introduction to Methane to Markets Activities in the Oil & Natural Gas Sector and Partner Case Study (India)

Moderator: Carey Bylin, U.S. Environmental Protection Agency (U.S. EPA)

15:00 – 15:15 **Introduction to Methane to Markets Activities in the Oil and Natural Gas Sector**

Carey Bylin, U.S. EPA

15:15 – 16:00 **ONGC's Methane to Markets Program Initiatives: A Case Study**

A.B. Chakraborty, ONGC

16:00 – 16:30 Break

Session 2 – Partner Examples and Experiences (Mexico, China, Ukraine)

Moderator: A.B. Chakraborty, ONGC

16:30 – 17:15 **A Methane Emissions Inventory and Analysis of Emissions Abatement Measures for a Large State-Owned Oil and Gas Corporation: The Example of PEMEX**

Luis Betancourt, PEMEX

17:15 – 18:00 **Linking Measurement Studies, Corporate Guidance, Front-End Engineering Analysis, and Study Tour Results to Develop a Sustainable Methane Emission Reduction Management Policy: The China National Petroleum Corporation's Methane to Markets Experience**

Dr. Xiangyu Cui, China National Petroleum Corporation (CNPC)

Dave Picard, Clearstone Engineering

18:00 – 18:30 **Cherkasytransgas: Recent Compressor Station Methane Emission Detection, Measurement, and Mitigation Activity**

Olena Mandra and Natalya Novakovska, Cherkasytransgas

18:30 – 20:00 **Grand Opening Reception in the Exhibit Area: Sponsored by Oil and Natural Gas Corporation Ltd. (ONGC)**



Thursday, 4 March 2010

PLENARY SESSION

08:30 – 09:30 Exhibits Open

09:30 – 10:15 **Roundtable II: Financing Mechanisms**

Moderator: Dr. Prodipto Ghosh, Former Secretary of the Indian Ministry of Environment and Forests

- *Charles Cormier, World Bank (New Delhi)*
- *Jiwan Acharya, Asian Development Bank (Manilla)*
- *Souraphi Jain, First Climate India Pvt. Ltd.*

Thursday, 4 March 2010

AGRICULTURE SECTOR

Session 3 – Strategies and Policies to Overcome Barriers and Implement AD: Part 2

Moderator: Chris Voell, U.S. Environmental Protection Agency (U.S. EPA)

- 10:20 – 10:35 **India Strategies and Policies**
Anil Dhussa, MNRE
- 10:35 – 10:50 **United Kingdom: Strategies and Policies**
Jeremy Eppel, DEFRA
- 10:50 – 11:05 **China: Strategies and Policies**
Kou Jianping, Ministry of Agriculture of the People's Republic of China (invited)
- 11:05 – 11:20 **Australia: Strategies and Policies**
Josh Francis, Australian Government Department of Agriculture, Fisheries and Forestry
- 11:20 – 11:30 **Discussion**
- 11:30 – 12:00 Break

Session 4 – Overcoming Barriers of Scale: Project Bundling

Moderator: Kurt Roos, U.S. EPA

- 12:00 – 12:20 **Nepal Biogas Project: A Case for Bundling of Projects for CDM Funding**
Prakash Lamichhane, BSP Nepal
- 12:20 – 12:40 **Thailand Strategies and Policies**
Dr. Poon Thiengburanathum, ERDI Chiang Mai University
- 12:40 – 13:00 **Land Bank of the Philippines: Livestock and Agro-Industrial Program**
Noemi P. De La Paz, Land Bank of the Philippines
- 13:00 – 13:30 **Discussion**
- 13:30 – 14:30 Lunch

Session 5 – Opportunities to Use AD Across the Food and Agriculture Sector

Moderator: Jorge Hilbert, INTA

- 14:30 – 14:50 **Agricultural Residues**
Kolluru Krishan, EnviTec Biogas India Pvt. Ltd.
- 14:50 – 15:10 **AD Applications in India**
Dr. V.V.N. Kishore, The Energy and Resources Institute (TERI)
- 15:10 – 15:30 **Slaughterhouse Waste**
R.A. Ramanujam, Central Leather Research Institute
- 15:30 – 15:50 **Food Waste**
Andrew Needham, Biogen Greenfinch
- 15:50 – 16:00 **Discussion**
- 16:00 – 16:30 Break

Session 6 – Other Agricultural Sources of Methane

Moderator: Jeremy Eppel, DEFRA

- 16:30 – 16:50 **Overview of Rice Production Methods, Geographic Production, and Methane Emissions Estimates**
Dr. Kay Sumfleth, International Rice Research Institute (IRRI)
- 16:50 – 17:10 **Strategies and Policies for Mitigating Emissions from Rice Cultivation**
Akira Nagata, Japan Ministry of Agriculture, Forestry and Fisheries (MAFF)
- 17:10 – 17:50 **Overview of Enteric Fermentation Methane Emissions and Options for Mitigation**
Dr. Daniel Martino, Carbosur
- 17:50 – 18:30 **Discussion**
- 18:30 – 20:00 Reception

Thursday, 4 March 2010

COAL SECTOR

Session 3 – Policy and Regulation in India

Moderator: P.R. Mandal, Ministry of Coal

- 10:20 – 10:30 **Overview – An Indian Government Perspective**
P.R. Mandal, Ministry of Coal
- 10:30 – 10:40 **Development of Coalbed Methane (CBM) in India: An Overview**
A.K. Singh, Central Mine Planning & Design Institute (CMPDI)
- 10:40 – 10:50 **CMM Capture and Use Projects in India: Opportunities in Small to Medium-Sized Coal Mines**
Sanjay Dube, ICF International
- 10:50 – 11:10 **Carbon Finance for CMM Abatement**
Pranav Nahar, Evolution Markets India Pvt. Ltd.
- 11:10 – 11:30 **Panel Discussion**
- 11:30 – 12:00 Break

Session 4 – Technology Development in the CMM Sector: Rich Gas

Moderator: TBD

- 12:00 – 12:20 **TBD**
- 12:20 – 12:40 **Fuel Cell Power Plant Operating on CMM**
Lindo Hauptfleisch, Anglo Platinum
- 12:40 – 13:00 **CBM to Power the Dual Fuel Converted Engines of Indian Railways**
Pramod Kumar Gupta and Abhishek P. Gupta, Reliance Industries Ltd.
- 13:00 – 13:20 **Use of CBM/CMM for Decentralized Power Generation**
Punit Garg, Clarke Energy
- 13:20 – 13:30 **Discussion**
- 13:30 – 14:30 Lunch

Session 5 – Technology Development in the CMM Sector: Lean Gas or Ventilation Air Methane (VAM)

Moderator: TBD

- 14:30 – 15:00 **Ventilation Air Methane (VAM) Processing and Climate Change**
Richard Mattus, MEGTEC Systems
- 15:00 – 15:30 **Review of Strategies to Reduce GHG Emissions from Coal Mining**
Srinivasa Yarlagadda, Commonwealth Scientific and Industrial Research Organisation (CSIRO)
- 15:30 – 16:00 **Technologies for Mitigation and Utilization of Diluted CMM**
Dr. Shi Su, CISRO

16:00 – 16:30 Break

Session 6 – Best Practices Guidance for CMM Drainage and Utilization

Facilitator: Ray Pilcher, Raven Ridge Resources, Incorporated

16:30 – 16:45 **Overview of Best Practices Guidance Document**

Ray Pilcher, Raven Ridge Resources, Incorporated

16:45 – 17:10 **Maintenance, Monitoring (Using Infrared Technology), and Management of Methane Drainage Systems to Provide Optimum Gas Purity**

Steve Janaway, Green Gas International

17:10 – 17:35 **A Comparison of CBM Drilling Practices in the Southern Shanxi Province, China, through Advanced Reservoir Modeling**

Danny Watson, Marshall Miller & Associates

17:35 – 18:00 **CMM Projects in China (Japanese Government Assisted)**

Hiroaki Hirasawa, Japan Coal Energy Center

18:00 – 18:30 **Closing Remarks and General Discussion**

18:30 – 20:00 Reception

LANDFILL SECTOR

Session 3 – Assessing Landfill Gas Project Potential: Part 1

- 10:20 – 11:00 **Steps Toward Initiating LFG Utilization Projects in Developing Countries (Part 1): Project Assessments and Pre-Feasibility Studies**
Alex Stege, SCS Engineers
- 11:00 – 11:30 **Case Study: Pirana Landfill, Ahmedabad, India – An Assessment of the Potential for Methane Gas Recovery and Its Industrial Application**
P.U. Asnani, Urban Management Consultants
- 11:30 – 12:00 Break

Session 4 – Methane to Markets Grants Supporting Innovative LFG Utilization Technologies

- 12:00 – 12:30 **LFG Project Development within the Methane to Markets Program in Ukraine**
Yuri Matveev, Renewable Energy Agency (REA)
- 12:30 – 13:00 **LFG Used as a Fuel for a Medical Waste Treatment Facility in Argentina**
Gabriel Blanco, Universidad Nacional del Centro de la Provincia de Buenos Aires (UNCPBA)
- 13:00 – 13:30 **Potential for Converting LFG to Liquefied Natural Gas in India**
Rakesh Kumar, J. Zietsman, T. Ramani, and Sunil Kumar, National Environmental Engineering Research Institute
- 13:30 – 14:30 Lunch

Session 5 – Assessing LFG Project Potential: Part 2

- 14:30 – 15:00 **Steps Toward Initiating LFG Utilization Projects in Developing Countries (Part 2): Project Design Documents (PDDs) and Requests for Proposals (RFPs)**
Alex Stege, SCS Engineers
- 15:00 – 15:30 **Promoting LFG as an Energy Source in Nigeria**
Achenyo Idachaba, Green Innovative Chain
- 15:30 – 16:00 **Potential for Landfill Methane Recovery in Major Indian Urban Areas**
Nimmi Damodaran, Stratus Consulting
- 16:00 – 16:30 Break

Session 6 – LFG Projects and the Clean Development Mechanism (CDM)

- 16:30 – 17:00 **TBD**
- 17:00 – 17:30 **Why Do the Actual LFG Flows Differ so Greatly from the CDM Modeling?**
Graeme Alford, Landfill Gas and Power Ltd.
- 17:30 – 18:00 **Practical Considerations of LFG Analysis, Measurement, and Data Management to Receive CDM Credits**
Tony Trocian, Geotech
- 18:00 – 18:25 **The Impact of Elevated Leachate Levels on LFG Gas Generation and Recovery at Municipal Solid Waste Landfills in Asia**
Bryce Lloyd, Organic Waste Technology
- 18:25 – 18:30 **Closing Remarks**
- 18:30 – 20:00 Reception

Thursday, 4 March 2010

OIL AND GAS SECTOR

Session 3 – GHG Management and Measurement at Corporate and Global Level

Moderator: TBD

- 10:20 – 10:30 **Welcome and Introduction to Second Part of Technical Session**
- 10:30 – 11:00 **GHG Data Management Issues in an Oil Company**
Maria Mantini, Eni S.p.A.
- 11:00 – 11:30 **Japan's GOSAT: Greenhouse gases Observing SATellite (IBUKI: "breath" in Japanese)**
*Professor Gen Inoue, Research Institute of Humanity and Nature (RIHN) and
Dr. Tatsuya Yokota, National Institute for Environmental Studies
Dr. Kazuhiko (Kay) O'Hashi, Japan Technical Information Services Corporation*
- 11:30 – 12:00 Break

Session 4 – Reducing Methane Emissions from Wet Seal Centrifugal Compressors (Russia and Mexico)

Moderator: Natalya Novakovska, Cherkasytransgas

- 12:00 – 12:45 **Gazprom's Experience Converting to Dry Seal Compressors at Natural Gas Extraction, Transport, and Storage Facilities**
Gretta Akopova, VNIIGAZ (invited)
- 12:45 – 13:30 **Replication of Projects Identified by Methane to Markets: The Case of Compressor Dry Seals in PEMEX**
Martha Palomino, PEMEX Gas and Basic Petrochemicals (invited)
- 13:30 – 14:30 Lunch

Session 5 – Reducing Emissions from Natural Gas Wells: Capture and Utilization of Associated Gas

Moderator: Roger Fernandez, U.S. EPA

- 14:30 – 15:00 **Reducing Methane Emissions from Natural Gas Production: Reduced Emission Completions in Gas Wells and Smart Automation of Gas Well Plunger Lifts – Including BP Well Venting Case Study**
Don Robinson, ICF International
- 15:00 – 15:30 **Stop Flaring and Venting – Utilization of Associated Petroleum Gas with Gas Engines**
Thomas Elsenbruch, GE Energy – Jenbacher Gas Engines
- 15:30 – 16:00 **Methane Emissions Reductions through Vapor Recovery from Oil and Condensate Storage and Holding Tanks**
Larry Richards, Hy-Bon Engineering
- 16:00 – 16:30 Break

Session 6 – Methane Emission Detection, Quantification, and Mitigation

Moderator: Don Robinson, ICF International

- 16:30 – 16:50 **Rules of Thumb and Best Practices for Conducting Directed Inspection and Maintenance**
Don Robinson, ICF International
- 16:50 – 17:10 **In-Plant Measurement Audit as a Foundation for a Methane Emissions Reduction Program: the Poza Rica Gas Processing Complex**
Ing. Julio Cesar Ferrer, PEMEX (invited)
- 17:10 – 17:30 **Experience with Leak Detection and Measurement at Transmission and Distribution Facilities**
Milton Heath, Heath Consultants
- 17:30 – 17:50 **Case Studies of Gas Leak Detection Using Infrared Optical Imaging**
Johan Tegstam, FLIR Systems
- 17:50 – 18:15 **Question and Answer Session**
- 18:15 – 18:30 **Closing Remarks and End of Oil and Gas Technical Session**
- 18:30 – 20:00 Reception

Friday, 5 March 2010

PLENARY SESSION

Roundtable and Closing Plenary Session

08:30 – 09:30 Exhibits Open

09:30 – 10:30 **Roundtable III: Gas End-Use Technology**

Moderator: TBD

- *Prasanna S. Deshpande, Caterpillar Commercial Pvt. Ltd. (Bangalore)*
- *Gerhard Pirker, GE Energy–Jenbacher Gas Engines*

10:30 – 11:30 **Closing Plenary Session**

- Wrap-up Remarks
- Steering Committee Report and Decisions

Dina Kruger, Director, U.S. EPA Climate Change Division, Acting Chair of Methane to Markets Steering Committee

11:30 – 12:00 Tea Break

12:00 Exhibits Close

WORKING MEETINGS OF THE SUBCOMMITTEES

All conference attendees are invited to participate. Agendas for each subcommittee meeting are on subsequent pages.

Friday, 5 March 2010

AGRICULTURE SECTOR

Agriculture Subcommittee Meeting

12:00 – 12:30 **Welcome**

Agriculture Subcommittee Co-Chairs

- Brief Introduction of Meeting Participants
- Review Minutes from the September 2009 Subcommittee Meeting
- Review of Meeting Goals and Adoption of Agenda

12:30 – 13:30 **County Updates**

County delegates

- Brief updates on the Methane to Markets agriculture activities in each country

13:30 – 14:30 **Working Lunch** in meeting space

14:30 – 15:00 **Implementing Steering Committee Recommendations**

Administrative Support Group (ASG)

- Outcome of Steering Committee
 - Terms of Reference
 - Discussion of charges to agriculture sector

15:00 – 15:30 **International Protocol**

- Short presentation and overview of the Protocol
- Discussion of possible uses and next steps

15:30 – 16:00 **Enteric Fermentation and Rice Cultivation**

- Overview of the information learned in the technical sessions
- Discussion of possible next steps

16:00 – 16:30 **Action Items for the Year**

- Discussion of the goals and next steps for the Subcommittee

16:30 – 17:00 **Summary of Action Items Discussed at this Meeting**

ASG

- Meeting action items
- Specific tasks that meeting participants agree to accomplish and report on at the next meeting
- Possible agenda topics for the next Subcommittee meeting

17:00 Adjournment

Friday, 5 March 2010

COAL SECTOR

Coal Subcommittee Meeting

- 12:00 – 12:15 **Welcome Addresses**
Co-Chair A.K. Singh (India), Acting Co-Chair Jayne Somers (USA), Vice-Chair Huang Shengchu (China)
- Brief introduction of all meeting participants
- 12:15 – 12:30 **Adoption of Agenda**
Subcommittee Chairs
- Confirm the overall meeting objectives and specific Steering Committee directives to the Coal Technical Subcommittee.
- 12:30 – 12:45 **Implementing Steering Committee Recommendations**
Administrative Support Group (ASG)
- Outcome of Steering Committee
 - Terms of Reference
 - Discussion of charges to coal sector
- 12:45 – 13:30 **Country-Specific Statements**
- Activities and commitments countries plan to bring to the Partnership
 - Feedback from Expo
- 13:30 – 13:45 Break
- 13:45 – 14:30 **Working Lunch** (continue country-specific statements)
- 14:30 – 15:00 **Updates from Project Network**
- Partnership Activities
 - New project or technology developments
- 15:00 – 16:15 **Open Discussion Covering Possible Post-Expo Activities**
- Subcommittee adaptation to new framework for Methane to Markets
 - Discussion of Steering Committee Directives
 - Importance of country-specific strategies in context of new framework
 - Better integration of Project Network and coal mining industry in Subcommittee activities to solicit broader input for the Partnership
 - Capitalizing on Expo contacts and lessons learned to incorporate more business and financial interests into the Partnership
- 16:15 – 16:30 Break
- 16:30 – 16:45 **Planning for Next Subcommittee Meeting**
- Shoot for between September and November 2010
 - Solicitation of Volunteers to host Subcommittee meeting
- 16:45 – 17:00 **Summary of Action Items Discussed at this Meeting**
- Meeting action items
 - Specific tasks that meeting participants agree to accomplish/report on within specified timeframes
- 17:00 Adjournment

Friday, 5 March 2010

LANDFILL SECTOR

Landfill Subcommittee Meeting

12:00 – 12:15 **Welcome Addresses**

Co-Chair Gabriel Blanco, Argentina

- Brief introduction of all meeting participants
- Review of Meeting Goals
 - Expo debrief

12:15 – 12:45 **Implementing Steering Committee Recommendations**

Administrative Support Group (ASG)

- Outcome of Steering Committee
 - Terms of Reference
 - Discussion of charges to landfill sector

12:45 – 13:30 **Country-Specific Statements**

Country Representatives

- Activities and commitments countries plan to bring to the Partnership
- Feedback from Expo

13:30 – 13:45 Break

13:45 – 14:30 **Working Lunch** (continue country-specific statements)

14:30 – 15:00 **Updates from Project Network**

Project Network Representatives

- Partnership activities
- New project or technology developments

15:00 – 16:15 **Open Discussion Covering Possible Post-Expo Activities**

- Subcommittee adaptation to new framework for Methane to Markets
 - Reporting and tracking Partnership Accomplishments (*Administrative Support Group*)
 - ◆ Landfill sector highlights in the 2004-2009 Partnership Accomplishment Report
 - ◆ Tracking new project activities for 2010
 - Development of a Landfill Biogas Project Best Practices Guide (*Rachel Goldstein, U.S. EPA*)
 - Brainstorming activities to implement charges from Steering Committee (*co-chair Gabriel Blanco*)

16:15 – 16:30 Break

16:30 – 16:45 **Planning for Next Subcommittee Meeting**

- Event to held between September and November 2010
- Solicitation of volunteers to host Subcommittee meeting

16:45 – 17:00 **Summary of Action Items Discussed at this Meeting**

- Meeting action items
- Specific tasks that meeting participants agree to accomplish/report on within specified timeframes

17:00 Adjournment

Friday, 5 March 2010

OIL AND GAS SECTOR

Oil and Gas Subcommittee Meeting

12:00 – 12:45 **Welcome Addresses**

Host Government/ONGC Representative; Chairman Kaplan Basniev (Russia), Luis Betancourt (representing Mexico), and Vice Chairman Michael Layer (Canada)

- Brief Introduction of Meeting Participants

12:45 – 13:00 **Adoption of Agenda**

Subcommittee Chairs

- Confirm the overall meeting objectives and specific mandates to the Oil and Gas Subcommittee as discussed in Lake Louise, Alberta, Canada

13:00 – 13:30 **Implementing Steering Committee Recommendations**

Administrative Support Group (ASG)

- Outcome of Steering Committee
 - Terms of Reference
 - Discussion of charges to oil and gas sector

13:30 – 14:30 **Working Lunch** in meeting room

14:00 – 15:30 **Review of Oil and Gas Content and Outcomes from Expo, including Country-Specific Strategies and Activity Update**

Subcommittee Chairs

- **Dialogue with Country Delegates:** Member countries will review their contributions to the Expo and summarize any relevant outcomes. As appropriate, representatives will also provide a brief update on other relevant activities in which their country has been involved since the September 2009 meeting in Lake Louise, Alberta, Canada

15:30 – 16:00 Break

16:00 – 16:30 **Action Items in the Coming Year**

Subcommittee Chairs

- Each Subcommittee member should be prepared to discuss:
 - What comes next for the Subcommittee?
 - What does the Subcommittee want to achieve?
 - What ideas and activities should the Subcommittee pursue in the coming one to three years?

16:30–16:45 **Administrative Issues**

Subcommittee Chairs

- Communications mechanisms (i.e., what works best?)
- Updates to Subcommittee rosters

16:45 – 17:00 **Summary of Action Items Discussed at this Meeting**

ASG

- Meeting action items
- Specific tasks that meeting participants agree to accomplish and report on at the next meeting
- Possible agenda topics for the next Subcommittee meeting
- Confirmation of meeting location

17:00 Adjournment