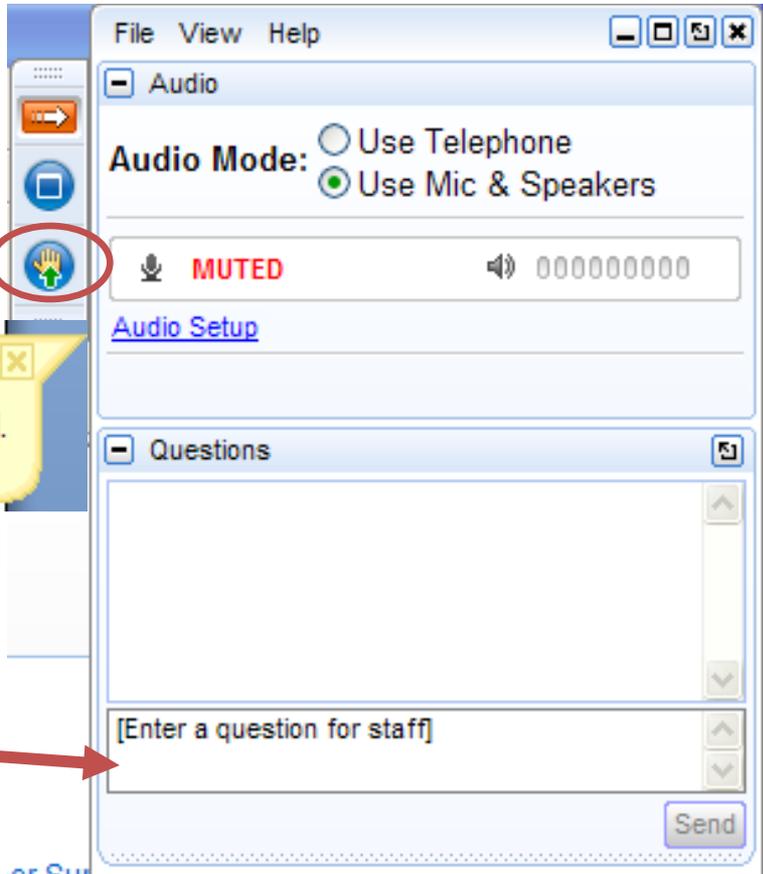


The Agriculture Subcommittee Meeting will begin shortly...

AUDIO INSTRUCTIONS:

We have muted your telephone or microphone.

If you want to speak during the meeting, click



ASG Staff will unmute you

You can also type a question to ASG Staff

Global Methane Initiative Agriculture Subcommittee Meeting

28 November 2012



Agenda

- Welcome
 - Introductions and brief country updates
- ASG Update
 - Climate and Clean Air Coalition Update
 - Methane Expo 2013
 - GMI social networking sites
- Subcommittee Activities
 - Statement of Purpose
 - Case studies for International Best Practices Guide
- Planning for Methane Expo 2013
 - Topics for Subcommittee Meeting
 - Topics and speakers for technical sessions

Introductions

- Agriculture Subcommittee Co-chairs
 - Allison Costa, United States
 - Anil Dhussa, India
 - Jorge Hilbert, Argentina
- Administrative Support Group
 - Monica Shimamura
 - Cortney Itle
 - Sarah Greenberg
- Meeting participants introduce themselves when prompted
 - Please include name, organization, and country

Country Updates

- Country Delegates provide brief (2 minute) country updates on current country activities related to the work of the GMI Agriculture Subcommittee:
 - Argentina
 - Canada
 - India
 - United States

Country Update: Canada

Agriculture and Agri-Food Canada (AAFC) initiatives to address GHG emissions quantification and attenuation:

- Agriculture Canada has been very active in R&D activities to address GHG issue in agriculture and to reduce the negative impact of livestock production on natural resources.
- It has elaborated several programs to address barriers for best management practices (BMPs) adoption, to develop cost effective BMPs and to encourage national and international collaboration in the area of GHG.
- Canada R&D focuses on both animal waste management and enteric fermentation. The main reason for this is that enteric fermentation is the most significant source of methane and enteric fermentation and animal wastes management are not independent.
- Agriculture Canada and partners are using a multidisciplinary and integrated approach to tackle the GHG issue. R&D on GHG quantification is conducted on the entire cycle of GHG from diet formulation, animal metabolisms, excreta storage and application on farm land. For example a change in diet to reduce enteric methane emission might have a positive or negative impact on fugitive methane emission from manure storages, on nitrous oxide emission after land application of manure, or on the bioenergy potential of the manure.

Country Update: India

- Over 4.5 Million household biogas plants primarily based on cattle manure
- Over 2000 small plants of 10-50 kW capacity for power generation
- Two MW scale cattle manure based projects
- A few co-digestion projects for power generation from urban, industrial and agricultural wastes and residues
- Installed a few projects for biogas upgradation to compressed Natural Gas Quality fuel for replacing LPG / CNG.
- Government support for CAPEX, Tariff, Tax concessions, programme implementation and R&D

Country Update: United States

- Almost 200 operating livestock manure digesters
- National workgroup (chaired by US EPA) composed of members from government, private industry, universities, and other associations is working on joint activities
 - General education
 - Policy/regulatory information



ASG Update

- Climate and Clean Air Coalition (CCAC)
 - Launched in February 2012
 - Two Methane Focal Areas :
 - SLCP's from municipal solid waste, landfills
 - Oil and Natural Gas production
 - White Papers will be developed for Methane Expo 2013
 - Explore GMI and CCAC's interactions
 - Explore GMI and finance

Methane Expo 2013



- 12-15 March 2013 in Vancouver, Canada.
- Premier global forum focused on methane, held ~ once every 3 years. Previous Expos held in Beijing (2007) and New Delhi (2010) were huge successes, with over 500 attendees each.
- Format:
 - Plenary session covering cross-cutting issues (e.g., financing)
 - Site visits for several sectors
 - Concurrent sector-specific sessions covering technical and policy issues
 - Exhibition hall showcasing project opportunity and success story “posters” as well as technology providers and key stakeholders
 - Steering Committee and (5) Subcommittee meetings

CCAC MSW and Oil and Gas Oil and Gas and CCAP side events on the margins



Canada

Methane Expo 2013 At-a-Glance Agenda



Monday March 11	Tuesday March 12	Wednesday March 13	Thursday March 14	Friday March 15
CCAC MSW and Oil and Gas Initiative Meetings	Registration and Site Visits	Opening Plenary Session 3.0 hours	Plenary Finance Session 1.5 hours	Joint Biogas Sessions 2.5 hours
	CCAP Side Event		Sector-Specific Sessions 5.5 hours	
	Expo Opening & Welcome Reception	Sector-Specific Sessions 4 hours		Mayors Forum & Closing Plenary 2.0 hours

Methane Expo 2013



- The premier international forum for promoting the recovery and use of methane through new projects and technologies.
- Who attends?
 - Over 750 participants from 34 countries
 - More than 100 exhibitors
- Expo provides participants with opportunities to:
 1. Showcase methane mitigation projects and technologies
 2. Learn about the latest project opportunities, technologies, and services
 3. Meet with potential project partners and financiers
 4. Explore key technical, financial, and policy issues
 5. Interact with high-level government agencies from 41 countries

Canada



Outreach for Methane Expo 2013



- **Canadian embassy hosted an outreach event on November 15**
 - Canada invited all Partner embassies and Project Network Members in Washington DC
 - Gina McCarthy, GMI Steering Chair and Stephen de Boer has invited EPA to make some high-level remarks about GMI.
- **U.S. State Department Demarche and Canadian Demarche** to be sent to all U.S. and Canadian Embassies in Partner Countries.
- An **Invitation Letter** is planned to be sent to all Partners, as per past Expos.
 - Joint U.S/Canada letter (signed by Gina McCarthy and Dan McDougall from Environment Canada).
- **Expo Brochure** – being developed and sent out by end of December
- **Any Other ideas?**

Outreach for Methane Expo 2013

- Attend the Methane Expo 2013
 - To learn about methane reduction opportunities
- GMI Partner Countries
 - Highlight your countries methane reduction opportunities at your free country booth at the Expo
 - Develop your Country Methane Action Plan
 - Reach out to your country agencies to encourage your GMI delegates to attend
- Project Network Members
 - Multi-lateral banks and finance institutions – join our finance panel
 - Become an Expo supporter - showcase your company or organization via booth or marketing your logo at the Expo

ASG Update, continued

- GMI Social Networking Sites

facebook Search for people, places and things



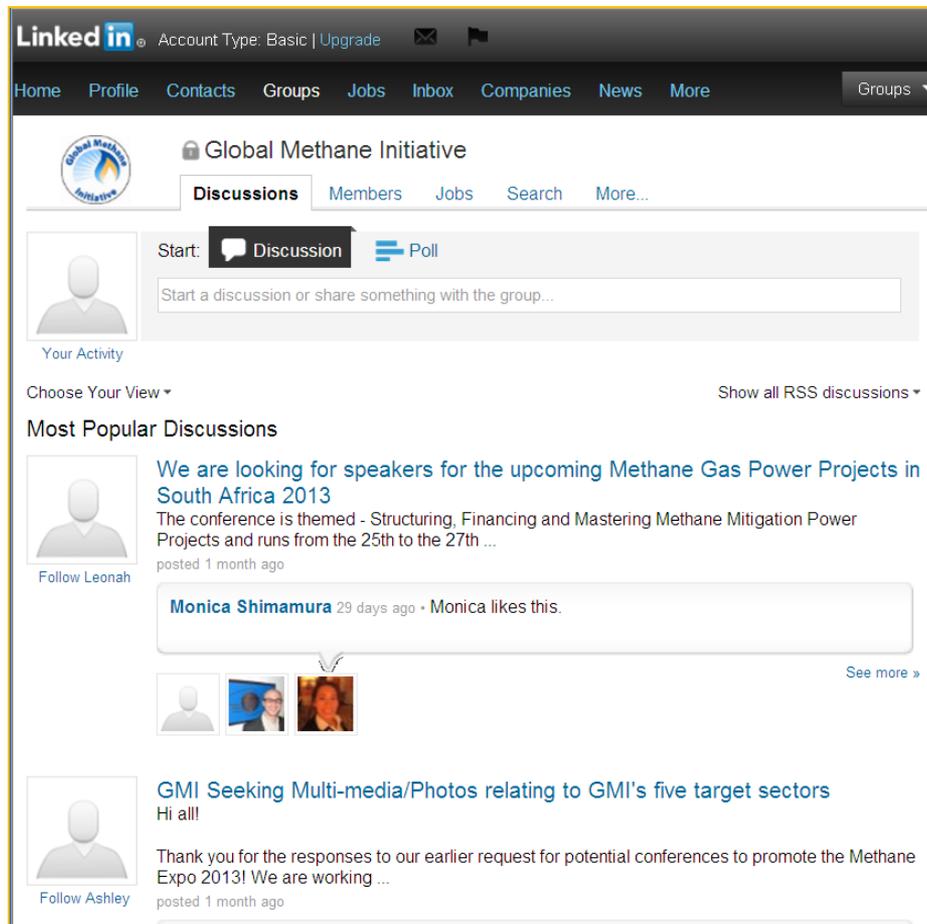
Global Methane Initiative (GMI) ✓ Liked
116 likes · 0 were here

Government Organization
The Global Methane Initiative (GMI) is a voluntary, multilateral partnership that aims to reduce global methane emissions and to advance the abatement, recovery and use of methane as a valuable

About Photos Likes 116 Map

ASG Update, continued

- GMI Social Networking Sites



The screenshot shows a LinkedIn group page for the Global Methane Initiative. The page header includes the LinkedIn logo, account type (Basic | Upgrade), and navigation links (Home, Profile, Contacts, Groups, Jobs, Inbox, Companies, News, More). The group name is "Global Methane Initiative" with a lock icon, and tabs for "Discussions", "Members", "Jobs", "Search", and "More...". Below the header is a "Start" section with options for "Discussion" and "Poll", and a text input field for starting a discussion. The "Your Activity" section shows "Choose Your View" and "Show all RSS discussions". The "Most Popular Discussions" section features two posts:

- Post 1:** "We are looking for speakers for the upcoming Methane Gas Power Projects in South Africa 2013". The conference is themed - Structuring, Financing and Mastering Methane Mitigation Power Projects and runs from the 25th to the 27th ... posted 1 month ago. A comment by Monica Shimamura from 29 days ago says "Monica Shimamura 29 days ago • Monica likes this." There is a "See more »" link and three profile pictures below.
- Post 2:** "GMI Seeking Multi-media/Photos relating to GMI's five target sectors". The post says "Hi all! Thank you for the responses to our earlier request for potential conferences to promote the Methane Expo 2013! We are working ..." and was posted 1 month ago. It has a "Follow Ashley" button.

Subcommittee Activities: Statement of Purpose

- Based on a survey of Agriculture Subcommittee members, we developed an Agriculture Subcommittee Statement of Purpose to define:
 - Subcommittee's mission
 - Focus of Subcommittee's work
 - Roles of delegates and project network members
- The draft Statement of Purpose was discussed at the July meeting in Singapore
- The final Statement of Purpose is available online:
http://www.globalmethane.org/documents/ag_statement_of_purpose.pdf

Subcommittee Activities: Case Studies

- In Singapore, the Subcommittee discussed the development of an International Best Practices Guide (IBPG) for AD projects
- As a first step, the Subcommittee will develop case studies to be included in the IBPG
- Daniel Fikreyesus worked with the co-chairs and ASG to develop a case study template.

GLOBAL METHANE INITIATIVE AGRICULTURAL BIOGAS PROJECT BEST PRACTICES TEMPLATE

The purpose of this worksheet is to collect best practices or case studies of agricultural biogas projects throughout the world, including basic information that describes the site as well as the current status and performance of the anaerobic digester system.

SITE INFORMATION

Name of Site:

Location:

Address:

City:

State:

Country:

Latitude and Longitude:

Site Type: *(specific type of farm, industry, etc.)*

Site Size: *(farm - number of animals, agro-industry – amount of annual production)*

Baseline Waste Management System: *(how waste was collected and disposed of prior to installation of anaerobic digestion system)*

BACKGROUND

Provide at least one paragraph that describes the prevalence of digesters in the country, the industry highlighted by this case study, and/or other related information:

Provide links to any relevant information that is available about the system on the internet:

DIGESTER INFORMATION

Digester Type:

Digester Volume:

Type and Volume of Gas Storage:

Year Built/Operational: *(year construction started and/or year biogas production started – identify which - built or operational)*

Feedstock(s): *(type and quantity of feedstock; frequency added)*

System Designer: *(company that developed project, manufacturer of system components, etc.)*

Generating Capacity & Biogas Generation: *(amount of biogas produced; size & type of gas use equipment)*

Biogas Use: *(how and where biogas is used)*

Energy Cost Onsite:

Cost of Energy Produced:

Price of Energy Sold to the Grid:

Final Digestate Use:

OTHER INFORMATION

Reason for Installing Digester:

Incentives Used to Install Digester:

Benefits Gained from Digester System:

Additional Information:

PHOTOS

Please attach photos of the system

Subcommittee Activities: Case Studies

- Draft template:
 - Any questions on draft template?
 - Any suggested items to add?
 - Any suggested items to remove or rearrange?
- Completed case study templates will be sent to the ASG by the end of January so they may be compiled in time for Methane Expo 2013

Methane Expo 2013

- Review Agenda
- Subcommittee Meeting – suggested topics?
- Technical Sessions – suggested speakers or topics?
- Posters – success stories or funding requests?

Methane Expo Agenda

Monday March 11	Tuesday March 12	Wednesday March 13	Thursday March 14	Friday March 15
CCAC MSW and Oil and Gas Initiative Meetings	Registration and Site Visits	Opening Plenary Session	Plenary Finance Session	Joint Biogas Sessions
	CCAP Side Event	3 hours	1.5 hours	2.5 hours
	Expo Opening & Welcome Reception	Agriculture Subcommittee Meeting	Agriculture Technical & Policy Sessions	Mayors Forum & Closing Plenary
		4 hours	5.5 hours	2 hours

Wednesday, 13 March – Agriculture Subcommittee Meeting

Session 1
(2 hours)

Country Updates

SUGGESTIONS?

Session 2
(2 hours)

Working session –
International Best
Practices Guide

SUGGESTIONS?

Thursday, 14 March – Technical & Policy Sessions

Tools & Technical
Considerations for
Biogas Projects
(1.5 hours)

Codigestion

CDM Engineering

Biogas Engine
Operation

Case Studies
(2 hours)

Nigeria

India

Indonesia

FAO

**1 OPEN –
SUGGESTIONS?**

Project Financing
Options
(2 hours)

Philippines
Carbon Finance

Canada Market-
based Mechanism

Canada
Experience

**2 OPEN –
SUGGESTIONS?**

Friday, 15 March – Biogas Joint Session

Market & Technical Considerations for Biogas End Uses (1.5 hours)

Engines

Transportation Fuel

Pipeline Quality

Overcoming Biogas Project Barriers (1 hour)

Introduction from
country/region biogas
association

Successful country
model (Chile??)

Successful regional
model (Eastern
Europe??)

Expo Posters

- **Success Stories**
 - Canada, Mexico, & Thailand
 - Suggestions or volunteers?
- **Projects Seeking Funding**
 - Thailand
 - Suggestions?

Thank you

Thank you for your participation today.
See you at Methane Expo 2013!

And Remember to Register for the Expo:
<http://globalmethane.org/expo/registration.html>