

Methane International

The Methane to Markets Partnership Quarterly Update

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Join Us in Buenos Aires!

The Methane to Markets Administrative Support Group is pleased to announce that the 2nd Annual Methane to Markets Partnership Meeting, generously hosted by the government of Argentina, will be held at the Palacio San Martín in Buenos Aires, Argentina on 2-4 November 2005.

Participation is strongly encouraged as updates from the previous year's activities will be provided and decisions regarding future actions will be made.



Meeting Objectives

At this meeting, the Steering Committee and all three Technical Subcommittees (i.e., Coal, Landfill Gas, and Oil & Gas Systems) – as well as the Agricultural Task Force – will report on their progress and plan next steps. The technical subcommittees and task force will conduct individual meetings on 2 November. During the 3 November Steering Committee meeting, delegates will provide country statements and discuss accomplishments from Year 1. The Steering Committee will also identify ways to further and

About Methane International

Methane International is the quarterly newsletter of the Methane to Markets Partnership. Published by the Administrative Support Group, *Methane International* delivers news and information about the Methane to Markets community of Partners and Project Network members. We welcome your news, commentary, and contributions. Please send them to the Administrative Support Group at asg@methanetomarkets.org.

deepen countries' commitments to the Partnership; make decisions on overarching issues that have been raised over the past year; and encourage ideas for transforming meeting and committee efforts into working programs, projects, and events. Subcommittee co-chairs will highlight successes, challenges, and key issues for consideration by the Steering Committee. The subcommittees and task force will meet on 4 November to discuss final work plans and action items for Year 2. Detailed agendas are posted on the Partnership Web site.

Registration and Hotel Information

Online registration is available for this meeting at: <https://www2.ergweb.com/projects/conferences/methanetomarkets/register-m2mpartner.htm>.

Visa Information

If you need an official invitation letter in order to obtain a visa to attend this meeting, please complete the visa section of the online registration form. Your information will be forwarded to our Argentinean hosts and they will issue an invitation letter.

Airline Travel

If you are planning to attend the 2nd Annual Methane to Markets Partnership meeting, we encourage you to make your airline reservations as soon as possible. Buenos Aires is an extremely popular tourist destination and flights to this city sell out quite quickly. Also, on 4-5 November, Argentina is hosting the Fourth Summit of the Americas, which will bring together many heads of

state and their delegations. Due to this large influx of travelers, there will be an unusually high demand for flights to Argentina. Our host, the Secretariat of the Environment and Sustainable Development of Argentina, strongly urges you to make the necessary arrangements in advance.

Don't miss this opportunity to contribute to the continued progress and growth of the Methane to Markets Partnership!

Dispatch from Torquay: An Update from the Landfill Subcommittee Meeting

The Landfill Subcommittee met in Torquay, United Kingdom, in June 2005, to focus on developing near-term activities for the landfill sector action plan. The meeting was well attended by representatives of partner countries, Project Network members, and other interested participants.

The meeting focused on three main topics: 1) overcoming financial hurdles, 2) addressing technical barriers, and 3) collecting and disseminating existing information and guidance.

The financial issues discussed included cost-competitiveness of LFG, carbon market drivers, and access to investment or funding. Participants agreed that developing guidance on topics such as project feasibility, investment costs, and financing opportunities and mechanisms would be helpful.

Because many of the major technical issues relating to project design, construction, and operation have

The Landfill Subcommittee's Action Plan

Sector-specific action plans are drafted to identify needs, opportunities, and priorities for project development. The Landfill Action Plan calls for:

- Developing guidance to help overcome financial barriers.
- Compiling a "lessons learned" summary paper on technical barriers and solutions.
- Creating an online international landfill database.
- Adding partner links (e.g., existing documents, tools, resources) to the Methane to Markets Web site.
- Identifying landfill sites for project development.
- Tracking activities facilitated by the Partnership.
- Recruiting new members into the Partnership's Project Network.

For more information on the Landfill Subcommittee's Action Plan, please visit www.methanetomarkets.org/landfill.htm.

been addressed in countries with extensive LFG experience, the subcommittee agreed to compile these technical issues in a "lessons learned" summary paper as part of the action plan.

Participants also agreed to collect and distribute all available project development guidance, tools, and other resources, such as LFG project development handbooks authored by the World Bank and U.S. EPA Landfill Methane Outreach Program. The subcommittee will post links to collected resources on the Methane to Markets Web site.

The subcommittee will meet again this November as part of the Steering Committee meeting in Buenos Aires.

A copy of the Landfill Subcommittee meeting minutes—including the draft action plan items—can be downloaded from:

http://www.methanetomarkets.org/docs/5jun2005_landfill_minutes.pdf.

Dispatch from Tomsk: An Update from the Oil & Gas Subcommittee Meeting

The Methane to Markets Oil and Gas Subcommittee held its semi-annual meeting in Tomsk, Russia, on September 13-14, 2005. The meeting was held in conjunction with the Methane Emissions Reduction Oil and Gas Technology Transfer Workshop September 15-16 sponsored by the Russian Academy of Sciences and the United States Environmental Protection Agency. The Subcommittee and Project Network members discussed steps to advance the Partnership, beginning with a review of recently completed Country Profiles, current activities, and project opportunities for 2005 and beyond.

The Oil and Gas Subcommittee will next meet at the November Methane to Markets Partnership meeting in Buenos Aires, Argentina. Mr. Javier Bocanegra, the Oil and Gas Subcommittee co-chair, offered to host the next Oil and Gas Subcommittee meeting in Mexico during the last week of April 2006. The exact location and dates will be listed on the Web site as details are finalized.

The Subcommittee meeting minutes, country profiles, and a link to the proceedings of the Technology Transfer Workshop are available at www.methanetomarkets.org.

Some key items in the Oil and Gas Subcommittee's Action Plan are:

- Collect and share existing studies and materials, which will help identify opportunities within the following four subcategories: a) production, b) processing, c) transmission, and d) distribution.
- Identify priority projects or opportunities in Partner countries.
- Encourage key industry associations to promote methane recovery based on technologies aimed at emissions reduction.
- Develop an international data base on emission factors and activity factors.
- Sponsor workshops and conferences on methane emissions reduction in the oil and gas sector.
- Recruit new members into the Partnership's Project Network.

The draft action plan is available as part of the Oil and Gas Subcommittee Meeting minutes at www.methanetomarkets.org.

New Co-Chair Sets Goals: An Update from the Coal Subcommittee

In July 2005, Clark Talkington left his post as co-chair of the Coal Subcommittee, and the Methane to Markets Partnership welcomed Pamela Franklin to fill this vacancy. "I am delighted and deeply honored to serve the Methane to Markets community as the new co-chair of the Coal Subcommittee," said Ms. Franklin.

Ms. Franklin hopes to build upon the important contributions of her predecessor. The Subcommittee established some important short-term goals during its inaugural year, she said, and will need to continue to set ambitious goals to

make coal mine methane recovery and use projects a reality. Such goals can be achieved by teaming with the Subcommittee's international partners. Ms. Franklin's primary long-term goal is to engage all participants in the initiation of concrete methane recovery and use projects, where technically and financially viable.

"One of the most important actions we can take is to expand our Project Network," said Ms. Franklin. "The Network is only effective once the membership reaches a critical mass. The more members, the more the Project Network can truly serve as a means to share ideas, resources, and expertise needed to launch projects." She invites all Subcommittee members to join her in recruiting our peers into the Project Network.

Ms. Franklin also looks forward to working with her fellow co-chair from India, the vice-chair from China, and the rest of the Subcommittee on the Coal Action Plan and on other efforts, and to a successful meeting in Buenos Aires.

Ms. Franklin has been a program manager at the U.S. EPA's Coalbed Methane Outreach Program for the past two years and has a background in environmental engineering and environmental policy. She can be reached at EPA by email at: Franklin.Pamela@epa.gov or by phone at 202-343-9476.

Agriculture Task Force Update

The Methane to Markets' Agriculture Task Force recently held two meetings via teleconference to discuss if and how the agricultural sector should be addressed by the partnership, as well as next actions for the task force.

The task force held its first teleconference on 22 June 2005. Meeting participants agreed that

agriculture is a significant source of global greenhouse gas emissions and may be an appropriate sector to recommend for inclusion in the Methane to Markets Partnership. The specific sources of agricultural methane that the partnership should focus on, and specifically which sources will provide near-term opportunities for methane capture and utilization, was the subject of some discussion. The task force concluded that animal waste management is the area in which the most economic and technologically feasible project opportunities are currently available. The opportunities related to agricultural waste (e.g., crops) and enteric fermentation are important and may be considered at a later date.

The task force has requested that each partner country interested in agriculture compile information on its agricultural emissions and current animal waste management practices. The Administrative Support Group (ASG) developed and circulated a template for country profiles on agricultural methane that will serve as the foundation for a short informational paper on global methane emissions from animal waste and technologies to capture and use its methane.

The task force held a follow-up meeting on September 15, 2005, also via conference call. There was widespread agreement amongst the meeting participants that the task force should prepare brief written recommendations to support its petition to become a Technical Subcommittee and provide them to the Steering Committee at the next Methane to Markets meeting in Buenos Aires, Argentina.

The participants are developing a robust agenda for their meeting in Buenos Aires. The task force

meeting on the first day will include technical sessions on methane capture and use projects in manure management and discussion of country experiences in this sector. The task force will also finalize its recommendations for the Steering Committee and initiate a public/private dialogue with the private sector.

Documents related to the Agriculture Task Force are available on the Methane to Markets Web site (www.methanetomarkets.org).

Welcome Canada! Methane to Markets' Newest Member Country

The Methane to Markets Partnership is pleased to welcome its newest member country: Canada.



With more than 10,000 landfill sites nationwide and more than half of its energy derived from natural gas and coal, Canada has vast experience and expertise in developing methane projects particularly in the landfill and oil and gas sectors. In Canada, landfill gas capture has increased by almost 40 percent since 1990, and nearly all of the methane captured for energy purposes is used to generate electricity for sale to electric utilities.

Canada's Methane Emissions Profile

- Canada produced 4,500 kilotonnes of methane emissions in 2003.
- Targeted Methane to Markets emissions sources (i.e., methane from landfills, underground coal mines, and natural gas and oil systems) represent more than 65 percent of Canada's total methane emissions.

The Canadian government estimates that total energy generation from landfills has the potential to double over the next decade. Preliminary work in the country's oil and gas sector indicates that additional methane emissions reductions could be achieved through expanded facility audits and new technology deployment. Natural Resources Canada has developed technology that converts diluted methane from coal mine ventilation air into clean thermal energy.

Canada will utilize its substantial expertise in methane capture and use projects by participating in the Landfill, Coal Mine, and Oil and Gas Subcommittees. Canada looks forward to demonstrating its commitment to both technology transfer and technology deployment through the Partnership as a way of achieving GHG reductions.

Help Us Build the Partnership's Project Network, Member by Member

The Methane to Markets Project Network is a growing community of individuals and organizations with experience or interest in methane recovery and use projects. Join the Project Network today, and invite your professional colleagues and peers to do so as well!

The Project Network serves as a mechanism for sharing technical, policy, and project financing experience relating to methane reduction and recovery—expertise that is vital to catalyzing new projects. The larger the Project Network becomes, the more its members will benefit, as new project opportunities, lessons learned, and collaborations emerge and are shared among various parties. Local governments, private companies (e.g., engineering and consulting services, energy end



users), research institutions, multilateral and regional development banks, and other governmental and nongovernmental organizations are all welcome to join the Project Network.

Project Network members gain direct access to other network members and country representatives who sit on the Methane to Markets technical subcommittees. Members are notified well in advance of all partnership activities and are encouraged to attend and contribute to subcommittee meetings. They may also provide input into the sector-specific action plans, engage in project development in coordination with partner

158 New Project Network Members!

Since January 2005, the Methane to Markets Partnership has welcomed 158 new members to the Project Network, bringing the total to 184. Please visit our Web site (www.methanetomarkets.org) for contact information and details on each entity's areas of expertise.

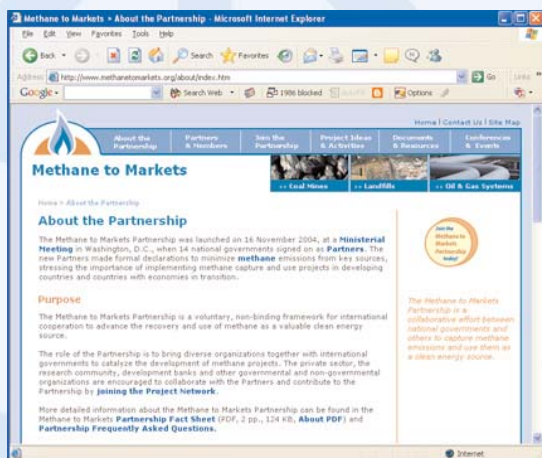
countries, and generate ideas for projects that will advance the goals of the partnership.

Get Involved Today, and Spread the Word

For more information and to join the network, please visit www.methanetomarkets.org/network or contact the Administrative Support Group by telephone at 202-343-9683, by fax at 202-343-2202, or by e-mail at asg@methanetomarkets.org.

For Your Information: The Methane to Markets Partnership Unveils New Online and Printed Informational Tools

www.methanetomarkets.org



The Methane to Markets Partnership launched its redesigned Web site in October 2005. The new Web site features improved, easy-to-use navigation and a wealth of new information and resources. The home page features prominent links for each of the partnership's current sectors: Coal Mines, Landfills, and Oil & Gas Systems. Each of these focus areas provides quick access to subcommittee

information, country profiles, fact sheets, and associated Project Network members.

The new Web site also includes the following dedicated pages:

- **About the Partnership** – Contains background information about the partnership, including the Methane to Markets Terms of Reference and details about the organizational framework.
- **Partners and Members** – Provides country-specific emissions profiles, background information on partner countries, and a list of current Project Network members.
- **Join the Partnership** – Information for prospective partner countries and Project Network members, including an online application.
- **Project Ideas and Activities** – Displays projects and other activities that the partnership is coordinating and allows members to submit project ideas online.
- **Documents and Resources** – Houses new fact sheets, press releases, other resources, and related links on methane emissions.
- **Conferences and Events** – Provides up-to-date information on partnership meetings and events, including detailed meeting summaries.

Please visit the new Web site and check frequently for updates and additions.

Methane to Markets Partnership Brochure and Fact Sheets

The Administrative Support Group recently finalized a series of new information materials on Methane



to Markets and issues surrounding methane emissions. The full-color brochure and fact sheets will be used to publicize the partnership, inform the general public about the importance of Methane to Markets and its many benefits, and encourage the

participation of interested countries and non-governmental organizations. These documents will be available for download from the Web site. You may also order copies by e-mailing a request to: asg@methanetomarkets.org.

- **Methane to Markets Partnership Brochure**

The brochure describes how the partnership promotes the benefits of methane recovery and use projects, facilitates collaboration, and creates solutions to overcome barriers to methane capture. It highlights the importance of Methane to Markets in addressing global climate change.

- **Methane to Markets Fact Sheets**

Several fact sheets have been developed to serve as additional outreach and promotional materials.

- **Methane to Markets Partnership Fact Sheet** – Includes background information about the partnership, including program objectives, governmental partners, and expected energy, environmental, and greenhouse gas benefits.
- **Methane Questions and Answers** – Provides general information about the

partnership and the significance of methane in a question and answer format, including: Where does methane come from? Why aren't efforts to capture and profitably use methane emissions more widespread? What are the expected benefits of the partnership?

- **Significance of Methane and Activities to Reduce Methane Emissions** – Includes a brief overview of methane as a greenhouse gas, the benefits of reducing methane emissions to the atmosphere, and current methane emission reduction opportunities at coal mines, landfills, and oil and gas systems.
- **Project Network Frequently Asked Questions** – Answers common questions about the Project Network, the responsibilities of Project Network members, and how to join.
- **Sector-Specific Fact Sheets (Coal Mines Fact Sheet, Landfills Fact Sheet, and Oil and Gas Systems Fact Sheet)** – Provides background information on global emissions, recovery and use opportunities, issues related to project development, and brief case studies.

All Partnership informational materials are available online at: www.methanetomarkets.org.

World Bank to Award \$4 Million for Water, Sanitation, and Energy Projects

The World Bank's Development Marketplace is seeking proposals for local projects in developing countries with the potential to be replicated and scaled up. The competition, entitled "Innovation in Water, Sanitation, and Energy Services for Poor People," will award a maximum of \$200,000 per proposal, totaling \$4 million. Proposals will be

accepted through 30 November 2005. Winners will be selected by an international jury of World Bank and independent development experts at a Development Marketplace event on 8-9 May 2006 in Washington DC. Proposals should address one of the following categories: Service Delivery, Environment, Health, or Natural Resources.

The program has awarded nearly \$34 million to roughly 800 small-scale projects over the last seven years. Last year's Development Marketplace awarded \$4 million in grants and attracted 2,638 proposals from 136 countries. Proposals from non-governmental organizations comprised the biggest share, at 58 percent; proposals from the private sector made up the second largest share, at 14 percent. Previous winning projects have included building children's merry-go-rounds that doubled as village water-pumps in South Africa, reusing mosque water to irrigate dry fields in Yemen, and constructing portable solar energy generators for remote Laotian households to rent.

More information about the competition is available in Arabic, Chinese, English, French, Portuguese, Russian and Spanish at www.developmentmarketplace.org.

Partnership Explores Project Opportunities in Mexico

Partnership members from Mexico's Secretariat of the Environment and Natural Resources and from the U.S. are collaborating with USAID to identify methane capture and use projects in Mexico. The Partnership will provide technical assistance and foster project development. The Mexican government is currently developing its Methane to Markets Action Plan. To support the Plan, Partners met on September 19, 2005 in Mexico to explore opportunities in the landfill sector.

Methane to Markets Conferences and Events

Be sure to visit www.methanetomarkets.org for the most recent information on partnership conferences and events.

Methane to Markets Partnership Meeting, 2-4 November 2005, Buenos Aires, Argentina. At this meeting the Steering Committee and all three technical subcommittees will meet to report progress and plan next steps. A detailed agenda will be posted as soon as it is available. The Methane to Markets meetings are just before the ISWA General Assembly and Annual Congress in Buenos Aires on 6-10 November 2005.

Methane to Markets Partnership Regional Workshop in China, 2 December 2005, Beijing, China. This workshop will focus on identification and quantification of coalbed methane emissions and cost-effective technologies and techniques to reduce these emissions. Presentations will include examples of these activities and case studies from actual projects.

Other Related Conferences and Events

General

The Institute of Economic Affairs' 4th Annual Conference Energy 2005: Challenges across Europe. 18-19 October 2005, Madrid, Spain. Organized by Marketforce.

www.marketforce.eu.com/index.cfm?obj=conferences.overview&confID=65

Fifth International Emissions Trading Association (IETA) Forum on the State of the Greenhouse Gas Market. 19-20 October 2005, Madrid, Spain. www.ieta.org/ieta/www/pages/getfile.php?docID=1091

Greenhouse 2005: Action on Climate Change. 13-17 November 2005, Queens Road, Melbourne, Australia.

www.greenhouse2005.com/

Green Power 5: International Conference & Exhibition on Sustainable Energy Development. 2-3 February 2006, New Delhi, India.

www.indiacore.com/ic-conf/12-feb06-green-power/index.html

Coal Mines

Seventh Annual Unconventional Gas Conference (targets natural gas from coal). 8-10 November 2005, Calgary, Alberta, Canada.

www.csug.ca/calc1.html

United Nations Economic Commission for Europe (UNECE) Task Force and Ad Hoc Group of Experts Meetings. 14-18 November 2005, Geneva, Switzerland.

www.unece.org/ie/se/coal.html

2005 China International Coal Bed Methane/Coal Mine Methane (CBM/CMM) Symposium. 30 November - 1 December 2005, Beijing, China.

For more information, e-mail: cbmc@public.bta.net.cn

Landfills

International Solid Waste Association (ISWA) World Congress 2005. 6-10 November 2005, Buenos Aires, Argentina.

www.iswa2005.ars.org.ar/english/index.htm

International Exhibition & Conference for Energy from Waste and Biomass. 1-8 December 2005, Bremen, Germany.

www.wte-expo.com/

Ninth Annual Landfill Methane Outreach Program (LMOP) Conference and Project Expo. 18-19 January 2006, Baltimore, Maryland, United States.

www.epa.gov/lmop/conf/index.htm

Oil and Gas Systems

The 12th Annual Natural Gas STAR Implementation Workshop. 24-26 October 2005, Houston, Texas, United States.

www.yosemite.epa.gov/oar/GasReg.nsf/content/Annual.htm

ARPEL (Regional Association of Oil and Natural Gas Companies in Latin America and the Caribbean) Climate Change Working Group Meeting. 10 November 2005, Caracas, Venezuela.

www.arpel.org

International Seminar of Exploration & Production Oil & Gas (INGEPET). 8-11 November 2005, Lima, Peru.

www.ingepet.com/ingles/Bienvenida.asp

International Petroleum Technology Conference: Sustaining World Growth – Technology and People. 21-23 November 2005, Doha, Qatar.

www.iptcnet.org/

Intergas 2005: Third International Conference & Exhibition for Gas Industry & Petrochemicals. 18-20 December 2005, Cairo, Egypt.

www.intergasegypt.com/

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.

