



Methane to Markets

**Partnership Overview and USG
Accomplishments**



Overview

- Background
- Accomplishments Update
- Partnership Expo Beijing
- Looking Forward

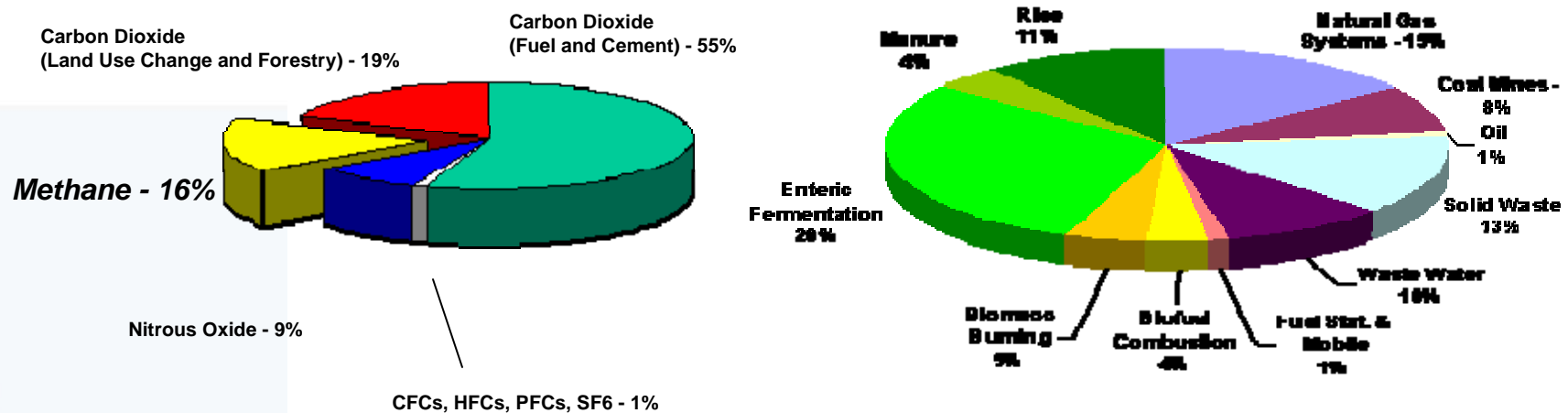


Why focus on Methane?

- A potent greenhouse gas (GHG) with 100-year global warming potential of 21; atmospheric lifetime of ~12 years
- The 2nd most important GHG accounting for ~18% of total climate forcing
- A primary constituent of natural gas and a valuable, clean-burning energy source

Global GHG Emissions in 2000

40,702 million tonnes carbon dioxide equivalent (MtCO₂e)



Overview: Objectives and Benefits of the M2M Partnership

OBJECTIVES

- Advance the recovery and use of methane while:
 - Enhancing economic growth
 - Promoting energy security
 - Improving local air quality and public health.

BENEFITS

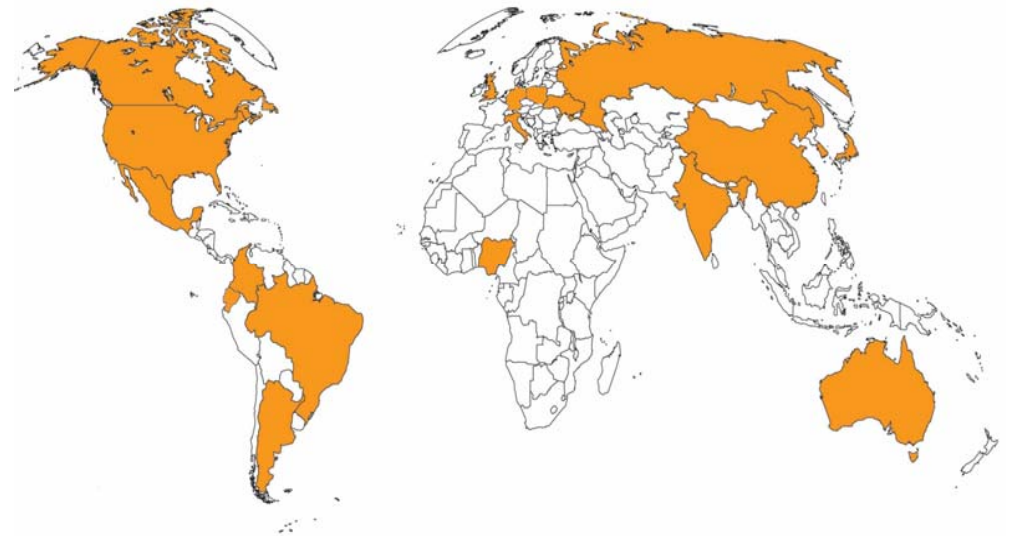
- Stabilization/Decline in Methane Concentrations will result in:
 - Sustainability
 - Energy security
 - Health and safety
 - Profitability



Methane to Markets Partnership

- Encourages development of **cost-effective** methane recovery and use opportunities in
 - coal mines
 - landfills
 - oil and gas systems and
 - agriculture (manure waste management)
- Private companies, multilateral development banks and other relevant organizations participate by joining the **Project Network – over 650 organizations now participating**
- 21 Partner Governments

Argentina	Japan
Australia	Korea
Brazil	Mexico
Canada	Nigeria
Colombia	Poland
China	Russia
European Comm.	Ukraine
Ecuador	United Kingdom
Germany	United States
India	Vietnam
Italy	



Methane to Markets: Accomplishments to Date

- Opened an international dialogue on methane recovery and use opportunities
- Developed sector action plans and have held multiple meetings of each sector subcommittee
- Initiated multiple projects and other activities in more than 12 Partner countries.
- The work of all the subcommittees and project network culminated in bringing forward more than 90 projects at the 2008 Beijing Expo!





Methane to Markets Focuses on Sectors with Near-Term Project Opportunities

Coal Mines



Oil and Gas Systems



Landfills

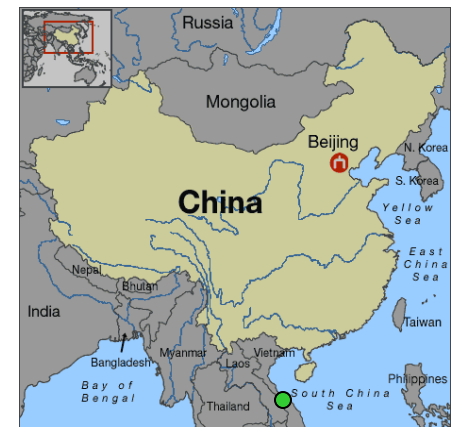


Agricultural Waste



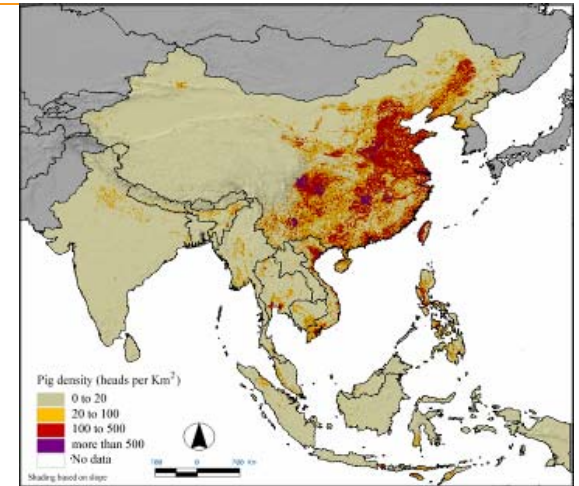
Coal Sector Work

- 17 countries are on the Subcommittee, led by chairs from China, India and the United States
- Developed and Launched International Coal Mine Methane Database
- Developed Coal Mine Methane Global Overview document with in-depth info on more than 30 countries
- World's largest CMM project at Sihe Mine, Jincheng Mining Group in China



Agriculture Sector

- 15 countries are on the Subcommittee, led by chairs from Argentina and the United Kingdom
- A key area of focus for our newest Subcommittee is in increasing awareness of Anaerobic Digestion opportunities within Partner countries.
- One exciting project here is a World Bank initiated \$21 million 5-year *Pig Waste Management* project in Asia





Landfill Sector

- 18 countries are on the Subcommittee, led by chairs from Argentina, Ecuador, and Italy
- Developed and Launched International Landfill Database
- Developed a comprehensive international landfill gas resource guide
- Mexico's SEMARNAT, EPA and USAID worked together to complete LFG pre-feasibility studies and pump tests at landfills owned by the cities of Ensenada and Nuevo Laredo.
 - The tests indicate that the sites are good candidates for an energy project.





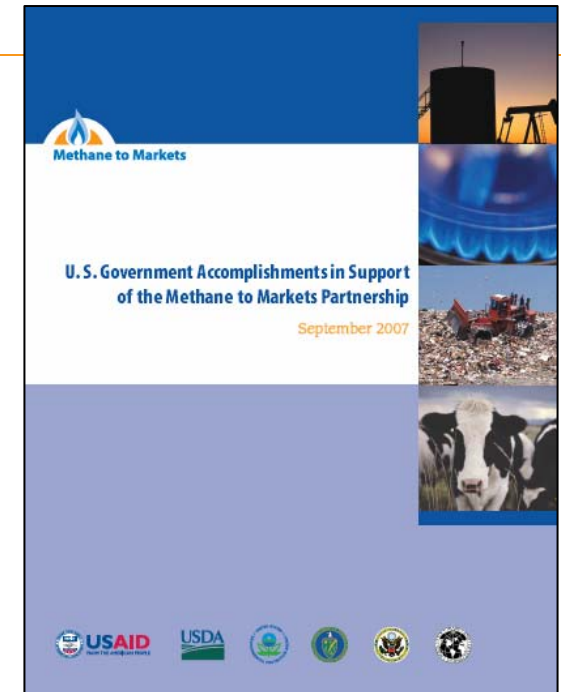
Oil and Gas Sector

- 17 countries are on the Subcommittee, led by chairs from Canada, Mexico and Russia
Active
- Developing new Nodal Analysis Tool that should help track and develop new projects
- In Mexico – Pemex has led by example
 - Pemex has spent more than \$1.3 million on methane reduction efforts through 2006
 - Estimated annual emission reductions of just over 120,000 MTCO₂E.



US Commitment

- Pledged \$53 million over five years at Partnership launch in 2004. To date:
 - Provided \$18.3 million to support a wide range of projects and activities
 - Leveraged over \$261 million in public and private sector contributions
 - *M2M grant solicitation from EPA will be out shortly - up to \$7 million*
- Providing significant support to the Partnership through the ASG and technical support in all 4 sectors
 - Project activities in Argentina, Brazil, China, Colombia, Ecuador, India, Korea, Mexico, Nigeria, Russia, and Ukraine.
- Through 2007, supporting projects that, if fully implemented, will result in estimated annual emission reductions of approximately 9 million metric tons of carbon dioxide equivalent (MMT_{CO2E})
- USG Accomplishment Report available at:
<www.epa.gov/methanetomarkets/accompreport.htm>



Partnership Expo: A Forum for Projects, Technology, Financing, and Policy



Beijing, China

30 October – 1
November 2007

- Over 750 attendees from 34 countries
- High level participation
 - Minister Xie Zhenhua, Vice Chairman of NDRC opened the meeting
 - Ambassador Randt, spoke on behalf of the U.S.
 - Vice President of ADB, Bindu Lohani gave keynote speech
- International Methane Marketplace
 - 91 projects showcased
 - 39 private sector companies showcased technologies and services
 - 13 country booths
- 17 of 21 Governments participated in the M2M Steering Committee Meeting (Oct 31)

See www.methanetomarket.org/expo for more information on projects and proceedings



Conclusions

- Methane to Markets Partnership is growing and remains a key mechanism for reducing global methane emissions
- There is great opportunity to continue to expand and evolve the Partnership in the future
- The recently held Expo represents what can be accomplished with the Partnership and we look to additional accomplishments in the next years.



For More Information

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