

The Global Methane Initiative

Building on the Success of the Methane to Markets Partnership

Cancun COP-16 Side-Event

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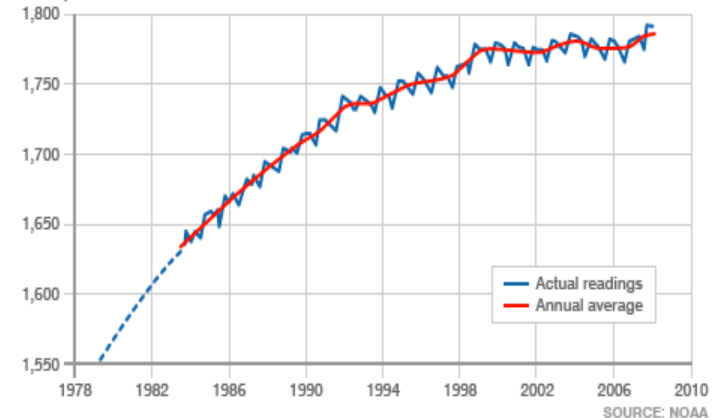
Overview

- Why Methane
- Five Years of Success: Methane to Markets
- Looking Forward to a New Global Methane Initiative
- Next Steps

Methane (CH₄)

- Potent greenhouse gas
 - 100-year GWP = 25
 - Lifetime = 12 years
 - Most important short-lived forcer—based on emissions, accounts for >1/3 of current anthropogenic forcing
- Ozone precursor
 - Effects background ozone levels
- Clean energy source - primary component of natural gas
- Many emission sources
 - energy, agriculture & waste sectors
 - 50 - 70% of are anthropogenic
- Concentration of methane in the atmosphere has increased by 150% in the last 260 years
- After about a decade of slow growth—as of 2007 global average methane concentrations have started to increase

RISING METHANE
Parts per billion



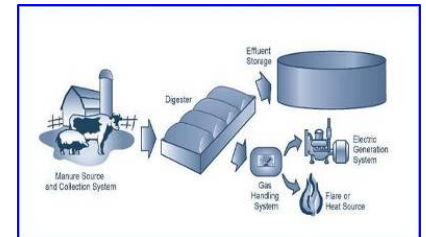
Methane Projects Deliver Significant Co-Benefits

- **New Sources of Clean Energy**
 - Mitigation makes methane available for local energy purposes
- **Air Quality Improvement**
 - Decrease in background ground-level ozone – a 20% reduction in global methane emissions could avoid large Northern Hemisphere mortality (140,000 – 400,000 lives in 2030)
 - Reduction of local emissions of VOCs and HAPs from landfills, agriculture, and oil and gas systems
 - Odor reductions in the landfill and agriculture sectors
- **Water Quality Benefits**
 - Local water quality improvements due to improved management of agricultural wastes and leachate in landfills
- **Industrial Safety**
 - Methane is explosive - improved worker safety in the coal mining and oil & gas sectors

Partnership Approach to Project Development

■ Strategic Focus

- Conduct capacity building and outreach efforts with all Partner countries in relevant sectors
- Develop sector and country specific strategies to identify and overcome barriers to projects
- Leverage relationship with PN to advance projects



■ Key Activities

- Technical Assistance and Project Identification
 - Data collection, assessment reports, pre-feasibility studies
- Tool Development and Technology Transfer
 - LFG generation model, CMM and Landfill database
- Training and Capacity Building
 - Clearing houses, training workshops, study tours, peer matching

Farms and Landfills— Providing Renewable Energy



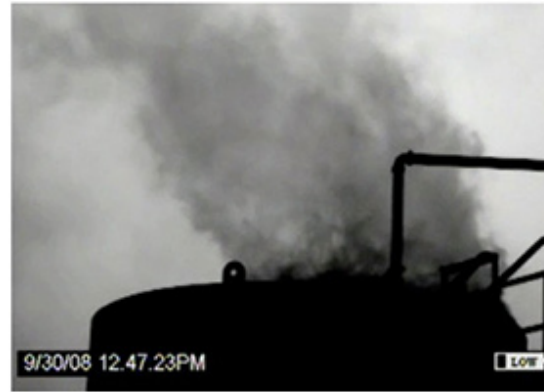
Animal Waste
to Cooking Fuel
in Vietnam



Landfill Gas to
an Infrared Heater
in Ukraine



Oil, Natural Gas and Coal Mining— Environment and Energy Solutions



Reducing Leaks and Losses from Natural Gas and Oil Operations—
More Energy to Markets and less VOCs and HAPs



Capturing Methane from Gassy Mines—Clean Energy and Mine Safety

Global Partners

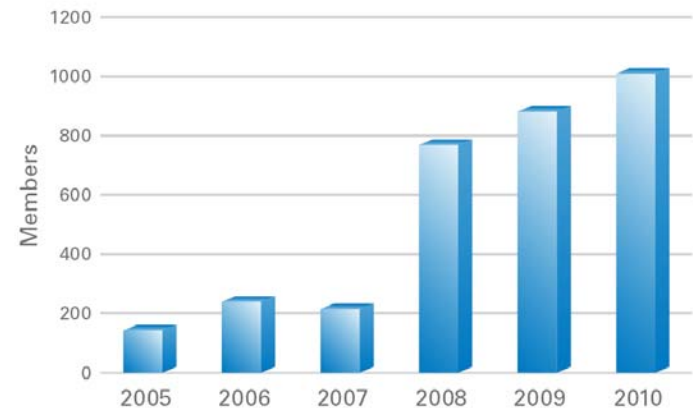
- Global effort to reduce methane emissions through deployment of cost-effective recovery and use projects
 - Landfills, coal mines, agricultural, and oil and gas systems
- Since 2004 the Partnership has grown from 14 to 38 governments and over 1000 public and private organizations— covers nearly 70% global methane emissions



The Project Network

- Brings necessary actors together to implement reduction projects
- Over 1,000 organizations
- Project Network members can:
 - Expand business and increase profits
 - Distinguish themselves in the marketplace
 - Identify financial and technical support for potential projects
 - Build capacity
 - Mitigate climate change
- The Partnership has leveraged more than \$480 million USD of private financing since 2004.

Figure 5: Project Network Exceeds 1,000 Members

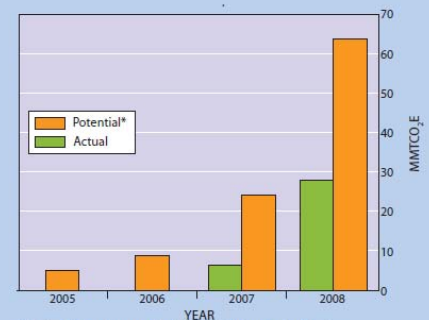


Delivering Results

- Delivering Results Today
 - Supporting 300 projects
 - Actual annual reductions of nearly 30 MMTCO₂e, and pipeline of projects that should deliver 61 MMTCO₂e/year when fully implemented
 - Delivering environmental and energy co-benefits
- Strong support from key developing countries
- Creating Pathway for Future Success
 - 80 technology transfer events in 23 countries
 - Showcased 225 project opportunities at the 2007 and 2010 Project Expos
 - Complements UNFCCC

Figure 2

Annual Reduction of Methane Emissions from Partnership Supported Projects, 2005-2008



*Potential emission reductions include actual reductions from Partnership-supported projects now online.



Ministerial—Launch of the Global Methane Initiative—October 1, 2010—Mexico City, Mexico

- SEMARNAT Minister Juan Elvira and U.S. EPA's Assistant Administrator Gina McCarthy led Mexican & US delegations in launching an expanded effort to accelerate global methane reductions.
- The United States pledged at least \$50 million over five years to GMI.
- Twenty Partner governments participated in the launch along with the Asian Development Bank and the Inter-American Development bank.
 - All provided statements of support for a Ministerial Declaration that focuses international attention on the critical role the new Global Methane Initiative can play in the collective fight against climate change.



Global Methane Initiative (GMI)

The GMI builds on the existing structure of M2M and is supported by revised Terms of Reference. Key elements include:

- **Methane Action Plans**
 - Ensure that all partner countries commit to develop national methane action plans to coordinate methane reduction efforts at home and abroad.
 - Developed countries provide coordinated assistance to developing countries.
- **New Resource Commitments**
 - From developed country Partners and others in a position to do so.
- **Expanded Scope**
 - Abatement and avoidance from wastewater treatment, landfills, agriculture.

Potential Results

- Over 1.5 billion tons of CO₂-eq reductions per year possible by 2020 at low cost.
- With sustained, high level commitment, GMI could deliver substantial reductions

GMI Continued

- All existing Partners and activities under M2M will become part of GMI.
- The Methane to Markets Partnership program materials will be modified over the coming months to reflect the enhancements and expansions of GMI.
- Additional information on the GMI can be found at: www.globalmethane.org/gmi.

Conclusions

- We believe there are tremendous opportunities for near term methane mitigation in developing countries using existing technologies and practices.
- The launch of the Global Methane Initiative offers an excellent opportunity to build on the success of Methane to Markets, to achieve real progress towards reducing climate change in the near term while improving the lives of people around the world.