Opening of the Center of Excellence on Coal Mine Methane in Katowice

8 June 2017
Why Methane?

- Over 60% of total CH4 emissions come from human activities
- Coal production 4th (8%) among sources of anthropogenic methane emissions
- Methane is a potent, well-mixed greenhouse gas in the atmosphere, so reducing methane emissions anywhere has equal impact on climate.

- Reducing methane has very important benefits:
  - Environmental Quality and Public Health
  - Energy Supply and Reliability
  - Economic
  - Industrial Safety
U.S. EPA’s Coalbed Methane Outreach Program

- **Our Mission**
  - Work with the private sector to cost-effectively reduce CMM emissions through recovery and use projects

- **Our Focus**
  - Greenhouse gas emission reduction opportunities: *coal mine methane (CMM)* rather than coalbed methane (CBM)

- **Our Activities**
  - Identify profitable opportunities for CMM recovery
  - Identify and help overcome market, regulatory, technical barriers
  - Offer technical and analytic support where appropriate
  - Conduct direct outreach to coal mines

- **Our Accomplishments**
  - The US CMM industry is robust. Over 84% of methane from US coal mine degasification systems is recovered and used today, compared to ~25% in 1993.
Global Methane Initiative

GMI is a voluntary, multilateral partnership that aims to reduce methane emissions and to advance the abatement, recovery and use of methane as a clean energy source.

- Established in 2004 (Poland joined in 2007)
- Now 42 partner countries + EC
- Targets 5 sector-specific areas for methane reduction
  - Agriculture
  - Coal Mines
  - Municipal Solid Waste
  - Municipal Wastewater
  - Oil & Gas Systems
Global Methane Initiative (II)

GMI reduces global methane emissions and encourages recovery and use of methane as an energy source.

GMI partners account for... nearly 70% of total global manmade $\text{CH}_4$ emissions...which is equivalent to approximately 5,000 MMTCO$_2$E.
Strategies for Success

- Promote international cooperation on methane reduction
- Provide reliable methane emission data
- Support capacity building in partner countries
- Assist in the removal of barriers for methane project development
- Identify cost-effective opportunities for methane projects
- GMI activities support data collection and feasibility studies, etc. to build a “pipeline of projects” and other capacity building efforts – not direct project investment
United States Coal Sector Methane Action Plan

- Reduce GHG emissions, promote use of clean energy source, achieve profitable recovery of CMM

- Activities to Promote Methane Mitigation / Abatement
  - Identify, evaluate and promote CMM recovery and use opportunities; provide support for potential projects

- International activities under auspices of GMI
  - Partnering with and supporting the work of the UNECE Group of Experts on CMM to promote best practices
    - Best Practice Guidance for Effective Methane Drainage and Use in Coal Mines (BPG)
    - Dissemination of the BPG through technical workshops
  - Creating and fostering CMM/CBM Clearinghouses
  - Conducting pre-feasibility and feasibility studies
  - Technical and financial resources; tools; policy white papers
Coal Subcommittee

- Coal mine methane sector activities focus on recovering methane that is released from coal seams as a result of mining activities

- Work of the Subcommittee and GMI Project Network includes:
  1. Comprehensive profiles that characterize the coal and coal mine methane sectors of 37 countries (29 Partners)
  2. Identification of 200+ operational CMM/VAM projects worldwide
  3. Country-specific action plans for ten Partners
  4. 100+ project opportunities and success stories showcased at methane forums in China, India, Canada and Washington, D.C.
  5. Workshops, meetings and technical trainings in 12+ countries
  6. Technical resources and tools

Get Involved!

- **Attend GMI Coal Subcommittee Meetings**
  - October 23-25, 2017 in Geneva, Switzerland
  - Hosted by UNECE in conjunction with meeting of the Group of Experts on CMM

- **Join the GMI Project Network**
  - Brings necessary actors from the private sector, NGOs, and multilateral investment organizations (World Bank, ADB, etc.) together to implement reduction projects.
  - Members can business, identify financial and technical support for potential projects
Contact Information

Felicia A. Ruiz  
Coalbed Methane Outreach Program (CMOP), U.S. EPA  
Co-Chair, Global Methane Initiative (GMI) Coal  
Subcommittee  
+ 1 (202) 343-9129, ruiz.felicia@epa.gov

Monica Shimamura  
Director, Administrative Support Group  
Global Methane Initiative (GMI)  
+1 (202) 343-9337, Shimamura.monica@epa.gov

www.globalmethane.org

www.epa.gov/cmop