AMM Utilization and Mitigation Activities under the Global Methane Initiative

Clark Talkington

Capture and Use of Abandon Mine Methane and Mine Reclamation and Revitalization of Post Mining Areas
Cracow, Poland, 26 February 2020
Global Methane Initiative (GMI)

- Launched in 2004 by U.S. EPA, GMI advances cost-effective, near-term methane recovery and use as a clean energy source
  - Biogas (Agriculture, Municipal Solid Waste, Wastewater)
  - Coal Mining
  - Oil & Gas
- Aims to reduce global methane emissions to enhance economic growth, strengthen energy security, and improve air quality and industrial safety
- Collaborates with United Nations Economic Commission for Europe (UNECE), Climate and Clean Air Coalition (CCAC)
- U.S. EPA hosts GMI Secretariat, known as the Administrative Support Group (ASG)
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 CH₄ emissions...which is equivalent to approximately 5,000 MMTCO₂E.
Coal mine methane sector activities focus on recovering methane that is released from coal seams as a result of mining activities.

The Subcommittee has:
- Hosted meetings and workshops in more than a dozen countries
- Completed country-specific action plans for seven Partners
- Showcased more than 50 project opportunities and success stories
- Developed tools and resources to further project development

Annual GMI Coal Subcommittee Meetings
- Graciously hosted by UNECE in Geneva, Switzerland
- Attendees include Partner Countries and Project Network members
- Next joint meeting scheduled for March 23, 2020
GMI Activities to Support CMM & AMM Capture and Utilization

- Conducting Prefeasibility Studies (China, India, Colombia in 2019)
- Completing CMM Market Studies (India, Colombia in 2019)
- Developing Tools and Analyses, for example:
  - CMM Country Profiles
  - Technical Reports
- Funding and Contributing to Research on AMM:
- Funding, co-hosting and participating in workshops
Reports Analyzing CMM and AMM Ownership and Legal Status

- Status of CMM Ownership and Policy Incentives in Key Countries (link)
  - Presents cases studies about building capacity, developing strategies and markets, and removing barriers for CMM recovery and utilization projects

- Legal and Regulatory Status of AMM in Selected Countries (link)
  - Presents case studies on countries that have an enabling environment for AMM recovery and utilization projects

- Both updated in 2019

- Supported by US EPA under the auspices of GMI
GMI Workshop and Event Participation in 2019

- Delivered CMM workshops in India and Colombia
- Contributed to Best Practice workshops/panels in Ukraine, Poland, and Turkey
- Also participated in:
  - Greenhouse Gas Control Technologies-14
  - 19th International CBM/CMM Symposium in China
  - North American Coalbed Methane Forum
  - International Pittsburgh Coal Conference
Global Methane Forum 2020

- 23 – 27 March 2020 in Geneva, Switzerland
- Co-hosted with UNECE
- GMI Meetings:
  - Oil & Gas Subcommittee
  - Coal Mines Subcommittee
  - Biogas Subcommittee
  - Steering Committee
  - Plenary Session
- Capstone event to celebrate the Global Methane Challenge
Coal Mines Subcommittee Meeting

- Monday, 23 March 2020, Palais de Nations, Room XXI
- Panel Discussion:

**Effectively Navigating Regulations, Markets, and Technical Hurdles to Get Projects Launched: Experiences of Developers and Mining Companies from Around the World**
U.S. EPA’s Domestic Activities to Facilitate CMM & AMM Utilization

- Developed several U.S.-focused resources in 2019:
  - Online map of US CMM Opportunities
  - Coal Mine Methane Developments In The U. S. (PDF)
  - Coal Mine Methane (CMM) Finance Guide (PDF)
  - State Renewable Energy Programs (PDF)
  - Emerging Financial and Regulatory Incentives for CMM Emission Reduction Project Development (PDF)
  - U.S Coal Mine Methane Project Cash Flow Model

- Conducted a Webinar on “Abandoned Mine Methane as an Energy Source”
Thank You!

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