Conducted Prefeasibility Studies

- Methane Drainage and Utilization at the TengHui Coal Mine, Shanxi Province, China
  - Part of an integrated Best Practices training program for the China ICE-CMM

- Methane Drainage and Utilization at the Casa Blanca Coal Mine, Colombia
  - One of the largest mining complexes in the country
  - Completed to determine the feasibility of a CMM capture and utilization project

- Methane Drainage and Utilization at the Pootkee Colliery, Damodar Valley, Jharkhand State, Dhanbad District, India
Completed Coal Mine Methane Market Studies

- Completed two CMM Market Studies in 2019
  - India
  - Colombia

- The studies provide an overview of each country’s energy markets and:
  - Summarize current CMM and CBM projects and CMM emissions
  - Identify opportunities for CMM utilization and emissions reduction projects
  - Outline challenges and benefits of implementing CMM and CBM projects
Updated GMI Country Profiles

- Comprehensive profiles that characterize the coal and coal mine methane sectors
- Contain summary tables that include statistics on:
  - Coal reserves
  - Coal production
  - Methane emissions
  - CMM project activity
- Profiles were recently updated for 7 countries and will be posted on the GMI website soon
Prepared Reports Analyzing CMM Ownership, Legal Status

- Status of CMM Ownership and Policy Incentives in Key Countries
  - 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
  - Presents case studies on countries that have an enabling environment for AMM recovery and utilization projects

- Supported by US EPA under the auspices of GMI
CMM Project Development Online Course

- Introduces principles for assessing the potential of developing projects to capture and/or use CMM.
- Course will benefit project developers, mining company personnel, governmental officials, or other 3rd parties.
- 8 modules under development and expected to be released in early 2020.
Workshop and Event Participation

- 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
  - 18th International CBM/CMM Symposium in China
  - North American Coalbed Methane Forum
  - International Pittsburgh Coal Conference
Summarizes discussion from the Export Dialogue on VAM held in Melbourne, Australia in October 2018

Explores the technical, market and policy barriers that are inhibiting VAM project implementation

Provides details on achievable tasks/action items to help eliminate barriers to increase VAM project development


Update from Clark Talkington, ARI
Thank you!

Co-Chairs, Coal Mines Subcommittee
Global Methane Initiative
Upcoming Events for GMI Coal Mines Subcommittee Participation

7 November 2019
Members’ Planned Events:
19th International Symposium on CBM/CMM in China

- Organizer: China Coal Information Institute (CCII)
- When: December 11th in Beijing, China
- A platform to promote the development of the CBM/CMM industry through strengthening technical and economic cooperation in CBM/CMM recovery and utilization at home and abroad.
Members’ Planned Events: Ventilation Air Methane Study Tour

- Organizer: Yanquan Mining Group
- When: the week of December 9th
- Goals: Advance VAM utilization in China and globally; visit VAM site and develop a joint GMI-CCII-ICE report on best practices
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

Recommendations for topics (discussing later today)
Send recommendations to ASG@Globalmethane.org
Other Upcoming Events

- International Mining Forum 2020, Krakow, Poland
- North American Mine Ventilation Symposium
  - 12-16 June 2021 - Rapid City, South Dakota (USA)
- World Mining Congress
  - 20-22 July 2021 - Brisbane, Australia
- International Pittsburgh Coal Conference
  - 2021 – India
Future of Mining Events

- **Future of Mining Australia**
  - 23-24 March 2020 - Sydney, Australia

- **Future of Mining Americas**
  - October 2020 - Denver, Colorado (USA)

- **Future of Mining EMEA - Europe, the Middle East and Africa**
  - June 2022 - London, UK
Thank you!

Co-Chairs, Coal Mines Subcommittee
Global Methane Initiative
Coal Mines Subcommittee Action Plan:
Update and Future Priorities

7 November 2019
Adopted Subcommittee Action Plan

- Adopted by Subcommittee in September 2018
  - Previous Coal Subcommittee Meeting


- 3-year cycle

- Open to suggestions and feedback
Objectives for Discussion

1. Next steps: What should be priorities moving forward?
2. What Partners will take the lead on implementing actions?
Objective One: Development of Overview Materials

- **Completed:**
  - Regular updates to the GMI CMM Country Profiles (7 profiles)

- **Potential Activities:**
  1. Update additional CMM Country Profiles (which countries?)
  2. Update the GMI CMM Technology Database
  3. Update the International CMM Projects List
  4. Update other tools and resources on the GMI website
Objective Two: Identify and Address Key Barriers to Project Development

- **Completed:**
  - ✓ Update White Paper “Legal and Regulatory Status of CMM Ownership in Key Countries: Considerations for Decision Makers”
  - ✓ Hold seminars, workshops and/or extended training to facilitate technology transfer on best practices, evolving from a more targeted approach
  - ✓ Prepare pre-feasibility studies in GMI countries
  - ✓ Conduct training on preparation and delivery of pre-feasibility and full feasibility studies
Objective Two: Identify and Address Key Barriers to Project Development (Cont’d)

- Potential Activities:
  1) Host delegations for CMM study tours (in progress with CCII)
  2) Support information centres or clearinghouses
  3) Participate in and sponsor delegates from Subcommittee members to participate in quality technical symposia
  4) Continue cooperation with the China & Polish International Centres of Excellence
  5) Identify sources of finance and engage with financial institutions
  6) Hold project capacity building finance workshops
  7) Create link between prospective CMM projects and sources of finance and investment
  8) Update important tools: the CMOP *International Cash Flow Model* and the *CMM Finance Guide*
Objective Three: Identifying Country-Specific Needs and Opportunities

- **Potential Activities:**
  
  1) Provide tools and guidance that help Partner Countries identify national level actions, supportive policies, and priority project opportunities
  
  2) Update relevant tools
Objective Four: Establish Long-Term Relationships that Promote the Coal Subcommittee Objectives

Potential Activities:

1) Contact members about upcoming activities and events

2) Contact GMI Partner Countries to encourage them to nominate Coal Subcommittee members

3) Provide information to members to show that GMI and the Coal Subcommittee provides added value to their methane management efforts

4) Encourage members to provide updates on their methane management activities and Action Plans

5) Continue cooperation in support of dissemination and publication of “Best Practice Guidance for Effective Methane Drainage & Use in Coal Mines”
Thank you!

Co-Chairs, Coal Mines Subcommittee
Global Methane Initiative
Planning for the Upcoming Global Methane Forum: March 23-27, 2020
# Global Methane Forum 2020

<table>
<thead>
<tr>
<th>Time</th>
<th>MONDAY 23 March</th>
<th>TUESDAY 24 March</th>
<th>WEDNESDAY 25 March</th>
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<tr>
<td>09:00</td>
<td>GMI Steering Committee 09:00-18:00 Room IV</td>
<td>GMI Biogas Subcommittee</td>
<td>GMI Oil &amp; Gas Subcommittee 09:00-12:00 Room S4</td>
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<td>10:00</td>
<td>UNECE Plenary Committee 09:00-18:00 Room IV</td>
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<td>Workshop on Methane Management 10:00-13:00</td>
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Global Methane Forum 2020

- GMI Coal Subcommittee
  - Topics/themes
  - Global Methane Challenge

- Remember to register at:
  https://globalmethane.org/gmf2020/
  https://www.unece.org/index.php?id=52506
**Action Items**

- VAM Study Tour December 2019
- China CBM/CMM Symposium December 2019
- Potential Subcommittee Meeting September 2020
- Updates to Subcommittee Action Plan
- CMM Incentives and Market Opportunity
  - GMI to help include CMM in NDCs
- CMM Task Force for Global Methane Forum 2020
  - Topics?
- Co-Chairs to coordinate on Steering Committee Meeting Presentation November 2019
Thank you!
See you in Geneva
23 – 27 March 2020
Global Methane Forum 2020
https://globalmethane.org/gmf2020/