

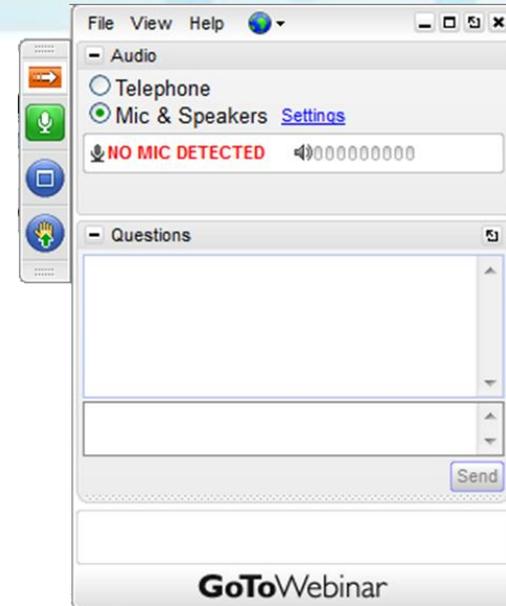
Steering Committee Virtual Meeting

20 November 2018



Webinar Tips

- All participants (except speakers) are in listen-only mode during each presentation
- You are invited to ask questions and participate in discussion after each presentation
- Please keep your phone muted if you don't have a question or comment
- If you are experiencing technical difficulties, please let us know using the Questions pane on the right side or contact Dougie Harrower at 1-703-408-6805



Agenda

- Overview of the Global Methane Challenge
- Report to Steering Committee on Subcommittee Activities
 - Biogas Subcommittee
 - Coal Subcommittee
 - Oil & Gas Subcommittee
- Update from the Climate and Clean Air Coalition (CCAC) Working Group Meeting
- Discussion of options for the 2019 in-person meeting

Overview of the Global Methane Challenge

Global Methane
CHALLENGE



BACKGROUND ON THE GLOBAL METHANE CHALLENGE

- 2016 Global Methane Forum marked renewed collaboration between GMI, the United Nations Economic Commission for Europe (UNECE) and the Climate and Clean Air Coalition (CCAC)
- GMI Steering Committee communiqué announced intention for the Challenge at Global Methane Forum in April 2018
- Task force of GMI Partner Country delegates formulated a proposal for the Challenge
- GMI Steering Committee endorsed and adopted the Challenge proposal in July 2018

WHY THIS CHALLENGE?

- Raise awareness about methane emissions and encourage reductions around the world
- Methane is a short-lived climate pollutant, so reductions made now can have significant short-term benefits
- Cost-effective technologies to capture and use methane are widely available today

CHALLENGE OVERVIEW

- **Who:** The Challenge is open to all public- and private-sector actors interested in showcasing their actions to reduce methane emissions
- **Goal:** Take more ambitious action to reduce methane emissions and showcase policies and technologies being used to reduce methane emissions around the world
- **When:** 2019 calendar year

WHY PARTICIPATE IN THE CHALLENGE?

- Each Challenge participant will be publicly recognized for actions to reduce methane emissions
 - Opportunity to highlight new actions as well as ongoing efforts
 - Challenge website will showcase actions
 - GMI, CCAC and UNECE events will provide forum for sharing actions
- Collectively, we can make an impact by raising awareness and catalyzing broader action
- Challenge participants and actions will be celebrated at a 2020 capstone event

EXAMPLES OF CROSS-CUTTING ACTIONS



Monitor methane emissions and create an emissions inventory



Develop an action plan for reducing emissions in one or more sectors



Provide technical or financial support to a methane mitigation project



Educate the public about methane emissions and abatement opportunities



Showcase a methane mitigation project or technology

EXAMPLES OF SECTOR-SPECIFIC ACTIONS

All Sectors

- Monitor methane emissions and create an emissions inventory
- Provide technical or financial support to a methane mitigation project
- Develop or promote implementation of sector-specific best practices



Agriculture

Adopt anaerobic digestion technology



Coal Mines

Install collection systems to recover and use methane from abandoned/closed coal mines



Municipal Solid Waste

Divert organic waste from landfills



Wastewater

Install biogas capture systems at existing open air anaerobic lagoons

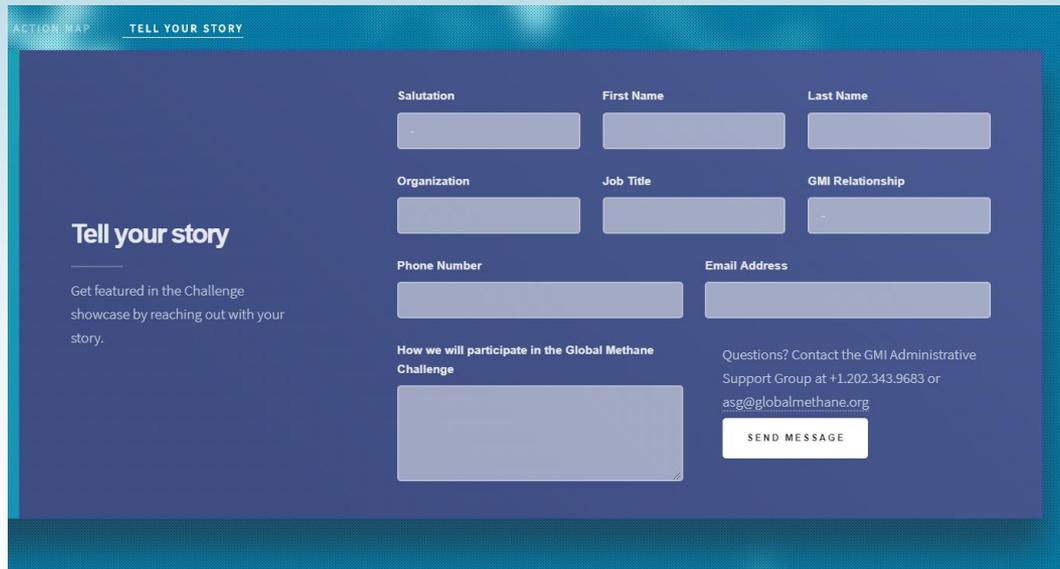


Oil & Gas

Install vapor recovery units

SHOWCASE YOUR ACTIONS

- **How:** Complete the online form on the Challenge website
 - The GMI secretariat may contact you for additional information to showcase your story on the Challenge website
 - globalmethane.org/challenge/



The screenshot shows a web form titled "TELL YOUR STORY" with a navigation link "ACTION MAP" to the left. The form is set against a dark blue background with white text and light blue input fields. On the left side of the form, there is a heading "Tell your story" followed by the text: "Get featured in the Challenge showcase by reaching out with your story." Below this is a large text area for "How we will participate in the Global Methane Challenge". On the right side, there are several input fields: "Salutation", "First Name", "Last Name", "Organization", "Job Title", "GMI Relationship", "Phone Number", and "Email Address". At the bottom right, there is a "SEND MESSAGE" button and contact information for the GMI Administrative Support Group.

TELL YOUR STORY

Salutation First Name Last Name

Organization Job Title GMI Relationship

Phone Number Email Address

How we will participate in the Global Methane Challenge

Questions? Contact the GMI Administrative Support Group at +1.202.343.9683 or asg@globalmethane.org

SEND MESSAGE

VISIT GLOBALMETHANE.ORG/CHALLENGE

HOME

THE CHALLENGE

ACTION MAP

TELL YOUR STORY



Global Methane CHALLENGE

It's time to take action! Join the Global Methane Challenge and showcase your work to reduce methane emissions.

The Global Methane Challenge is open to all public and private-sector actors interested in promoting their actions to reduce methane emissions. The goal of the challenge is to catalyze ambitious action to reduce methane emissions and showcase policies and technologies being used to reduce methane emissions around the world. Learn more about the [Global Methane Initiative \(GMI\)](#).



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Why methane?

- Methane is a
- on the rise
- Methane is a
- made now o
- Cost-effectiv
- are widely a

ADD YOUR ACTIVITY TO THE ACTION MAP

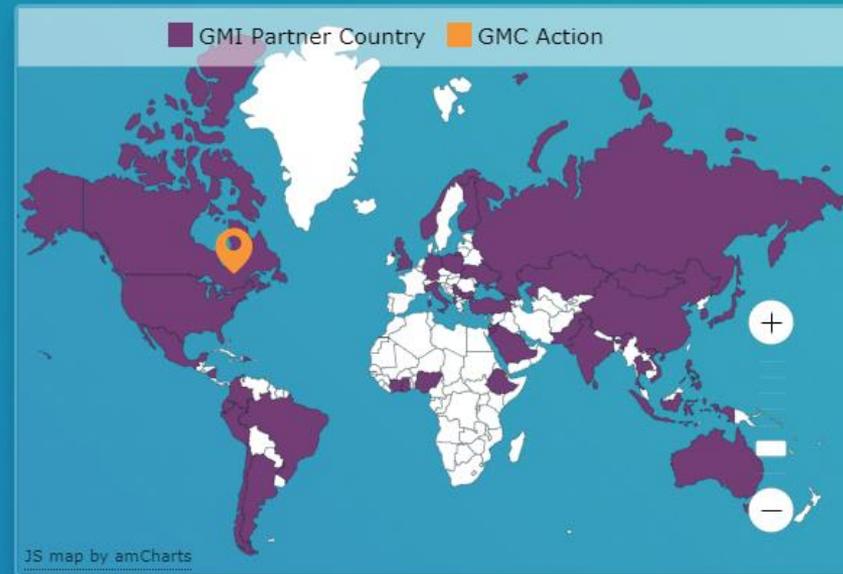
THE CHALLENGE

ACTION MAP

TELL YOUR STORY

↻ Action Map ↻

Coming soon! Click on the map to learn more about how actors around the world are participating in the Global Methane Challenge.



TELL YOUR STORY ON THE GMC WEBSITE!

ACTION MAP

TELL YOUR STORY

Tell your story

Get featured in the Challenge showcase by reaching out with your story.

Salutation

First Name

Last Name

Organization

Job Title

GMI Relationship

Phone Number

Email Address

How we will participate in the Global Methane Challenge

Questions? Contact the GMI Administrative Support Group at +1.202.343.9683 or asg@globalmethane.org

SEND MESSAGE

CONTACT INFORMATION

Global Methane Initiative Administrative Support Group

asg@globalmethane.org or +1-202-343-9683

Social Media



[Facebook.com/globalmethane](https://www.facebook.com/globalmethane)



[Twitter.com/globalmethane](https://twitter.com/globalmethane)



[LinkedIn.com/company/global-methane-initiative-gmi](https://www.linkedin.com/company/global-methane-initiative-gmi)

Report to Steering Committee on Subcommittee Activities





Biogas Subcommittee

2018 Update and Plans for 2019

Chris Voell, USEPA, Co-Chair, GMI Biogas
Subcommittee

2018 Highlights

Successful Completion of Biogas Components of Global Methane Forum

Developed and delivered 3 technical sessions
High-level meeting with CCAC Agriculture Initiative
Biogas Subcommittee in-person annual meeting
Scheduled technical tour (canceled)



■ Primary Collaboration

– Partner Countries, Project Network Representatives, CCAC Waste Initiative, C40, International Solid Waste Assn, World Biogas Association

■ Geographic Focus

– Latin America, Eastern Europe, Southeast Asia, Africa

■ Tools and Resources

– BioWATT; Anaerobic Digestion, Solid Waste Emissions & LFG Screening Tools; Agriculture Resource Assessments; Manure Digester Assessment

■ Outreach

World Gas Conference, UK AD & World Biogas Expo, ManuResource

2019 Action Plan

- **Support Global Methane Challenge**
 - Country-specific highlights (India, Philippines)
 - Rollout of Biogas sector tools and resources
 - Use the Project Network
 - Leverage NGO and Partner Delegate networks
- **Geographic Focus**
 - China, India, Kazakhstan
- **Technical Areas**
 - Best practices for food/organic waste & wastewater treatment
 - Advanced manure management & sustainable agriculture
 - Renewable natural gas production
 - Co-digestion of sludge, manure, ag residuals and food wastes
- **Virtual and In-Person SC Meetings**
 - Plans for quarterly webinars
 - In-person meeting being finalized



Coal Subcommittee Update to the GMI Steering Committee

20 November 2018

**Huang Shengchu (China),
Shekar Saran (India), Felicia Ruiz (USA)**



2018-2019 Coal Subcommittee Action Plan

- **China, India and the U.S. continue to lead Subcommittee and provide targeted technical assistance and outreach to Partner countries**
 - Technical and policy assistance and outreach for GMI Partner countries
 - CMM pre-feasibility studies, technical and policy support documents, workshops
- **Continue collaboration with UNECE and International Centres of Excellence on CMM**
- **Refine Key Subcommittee Tools and Resources**

Upcoming Events

- 19th International Symposium on CBM/CMM and Shale Gas, Beijing, **China**, 13 December 2018
- International Workshop on Optimum Utilization of CMM/CBM in India, Ranchi (Jharkhand), **India**, 6-7 February 2019
- GMI Coal Subcommittee and UNECE Group of Experts on CMM Meetings, Geneva, **Switzerland**, October 2019

Updates from China

- **2018 Highlights:**

- 6th Plenary Meeting of ISO/TC 263 & International Conference on CBM Technology, organized by CNPC and ISO, 5-7 September, 2018, Beijing
- Hosted 18th International Symposium on CBM/CMM and Shale Gas, December 13th, 2018, Beijing
- Relevant standard tools for CBM/CMM development and recovery issued by SAC and NEA in China in 2018; CCSR drafted 2 safety specification documents on CBM/CMM operations with task assignments of State Administration of Coal Mine Safety

- **2019 Upcoming Activities:**

- Prefeasibility study on CMM recovery and utilization at Jinjiazhuang Coal Mine, Liulin, Shanxi Province
- Finalizing 2 documents of safety specifications in CBM/CMM operations

Updates from India

- **2018 Highlights:**

- CBM/CMM Development in BCCL Area, Jharia Coalfield
 - Pre-drainage of methane in Moonidih UG mine
 - Jharia CMM/CBM Block
- CMM/CBM development in ECL Area, Raniganj Coalfield, and other CIL leasehold/ command areas

- **2019 Upcoming Activities:**

- Assessment of CMM Resources in Damodar Valley Coalfields, CIL area
- Workshop/training for Project/Mine Personnel engaged in gassy coal mines
- Training on Reservoir simulator/modelling Software for CIL Officials to provide hands on experience for successful project implementation
- Case Study on sustainable management of AMM for the UNECE/GMI Best Practices Guidance document
- Promote VAM on a Pilot Scale

Oil & Gas Subcommittee

Update and Plans for 2019

James Diamond, Canada

Oil and Gas Subcommittee Co-Chair

2018 Highlights

- **Action Plan adopted in April 2018**
 - Four Goals:
 - Establish long-term relationships
 - Develop tools and resources to enhance capacity-building efforts
 - **Identify and address barriers to projects**
 - **Identify country-specific needs and opportunities**
- **Participated in workshops in 6 countries**
- **Conducted measurement studies in India and Kazakhstan**

2019 Activities

- **Focusing on three activities:**
 - **Compile a list of barriers to methane mitigation projects**
 - **Conduct discussions that focus on strategies to overcome project barriers**
 - **Identify financing options and mechanisms**

Subcommittee Events

- July webinar:
 - Technical Briefing: Canada's New Methane Regulations for Oil & Gas Sector
 - Implementing the Subcommittee's Action Plan
- October webinar:
 - Global Methane Challenge
 - Technical Briefing: Identification and Evaluation of GHG Reduction and Energy Efficiency Improvement Opportunities at Oil & Gas Facilities
 - Implementing the Subcommittee's Action Plan

Webinar materials available on globalmethane.org

Upcoming Events

- Next Subcommittee webinar:
 - 23 January 2019, 9:00am (Ottawa)
- UNECE 6th Session of the Group of Experts on Gas
 - 25-26 March 2019 – Geneva, Switzerland
 - 26 March 2018 – Meeting of UNECE and the Oil and Gas Subcommittee of the GMI
 - 27 March 2019 – Workshop on Methane Emissions

Update from the Climate and Clean Air Coalition (CCAC) Working Group Meeting



**CLIMATE &
CLEAN AIR
COALITION**
TO REDUCE SHORT-LIVED
CLIMATE POLLUTANTS

Early outreach and engagement

- August 2018
 - The GMC Task Force sent a letter to the CCAC requesting the Steering Committee and Working Group's endorsement for the GMC
- Specific actions included:
 - Participating in the GMC
 - Encouraging CCAC Partners to consider making their own commitment
 - Providing communications support
 - Supporting a Capstone Event
 - Provide a CCAC Award to recognize outstanding methane mitigation activities

Early outreach and engagement

- September 2018 (San Francisco, CA)
 - A representative from Canada attended the CCAC Steering Committee meeting in September 2018 to provide an overview of the GMC
- October 2018 (Bangkok, Thailand)
 - Canada and the ASG then attended the CCAC Working Group meeting
 - Canada delivered a brief presentation on the GMC for CCAC Working Group members
 - Following the presentation, the CCAC Working Group formally endorsed the GMC

CCAC Working Group Summary

- New Partners were welcomed: Argentina and Panama
- 2018 High Level Assembly (HLA) will be at COP24 Poland
- To hold the 2019 HLA on the margins of the UN Climate Summit in New York
- Powering Past Coal Alliance – Canada will prepare a proposal that can be shared with the Working Group on a possible way forward
- New Working Group Co-Chair, Ms. Yuka Greiler, from Switzerland
- The Working Group confirmed appointment of New Zealand as a Steering Committee member

Discussion of options for the 2019 in-person meeting



In-person 2019 Steering Committee Meeting

Potential locations and dates

- Paris, France in April/May 2019
- Washington, DC, USA in May/June 2019
- Other locations or events to co-locate?

Wrap Up

- A copy of today's presentation will be posted to the GMI website
- Thank you for participating!