

GMI Oil & Gas Subcommittee Virtual Meeting

24 June 2021



Housekeeping – Tips for using Teams

Turn your camera on.

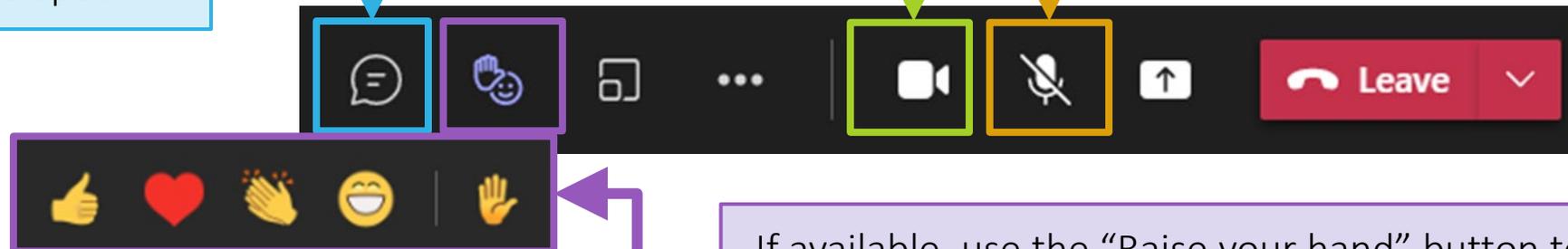
Consider turning your camera on so everyone can see you.

Mute your microphone.

Everyone should set the microphone to mute unless actively speaking. If participating by phone, press *6 to mute your phone.

Use the chat pane.

Enter questions here. Type “Raise My Hand” to be called upon to speak.



If available, use the “Raise your hand” button to be called upon to speak. Use the emoticons to react to speakers during the meeting.

Help!

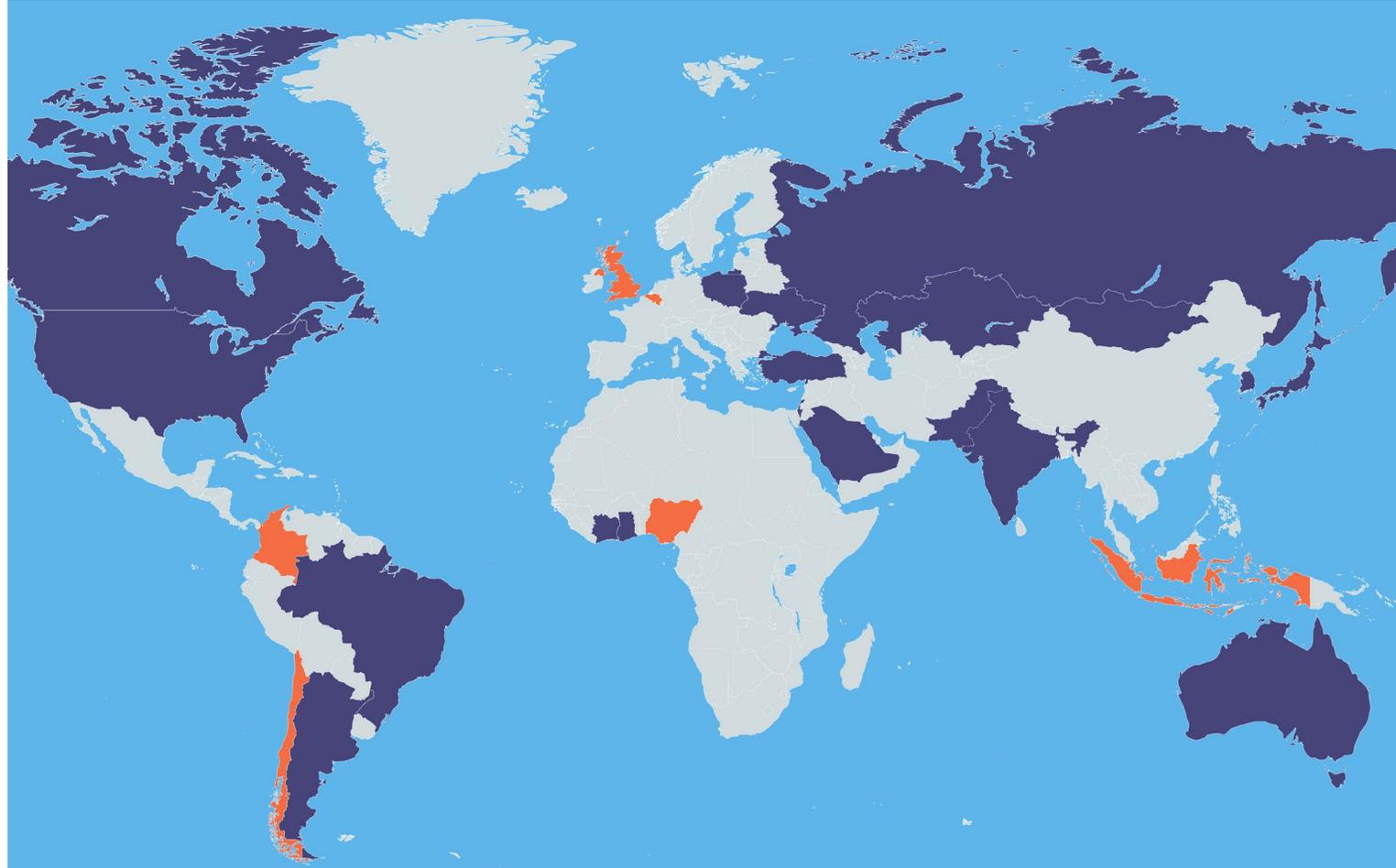
If you need help, please send an email to asg@globalmethane.org

Agenda

- **Welcome**
 - James Diamond, GMI O&G Subcommittee Co-Chair, Environment and Climate Change Canada (ECCC)
- **Overview of GMI Activities and Highlights**
 - Monica Shimamura, Director, GMI Secretariat
- **International Oil & Gas Landscape: Key Stakeholders and Initiatives**
 - Denise Mulholland, U.S. Environmental Protection Agency
- **Oil & Gas Subcommittee – Accomplishments, Priorities, and the Action Plan**
 - James Diamond, GMI O&G Subcommittee Co-Chair, Environment and Climate Change Canada (ECCC)
- **Wrap up and Next Steps**

Welcome to Our New Delegates

- Chile
- Colombia
- European Commission
- Indonesia
- Nigeria
- United Kingdom



Overview of GMI Activities and Highlights

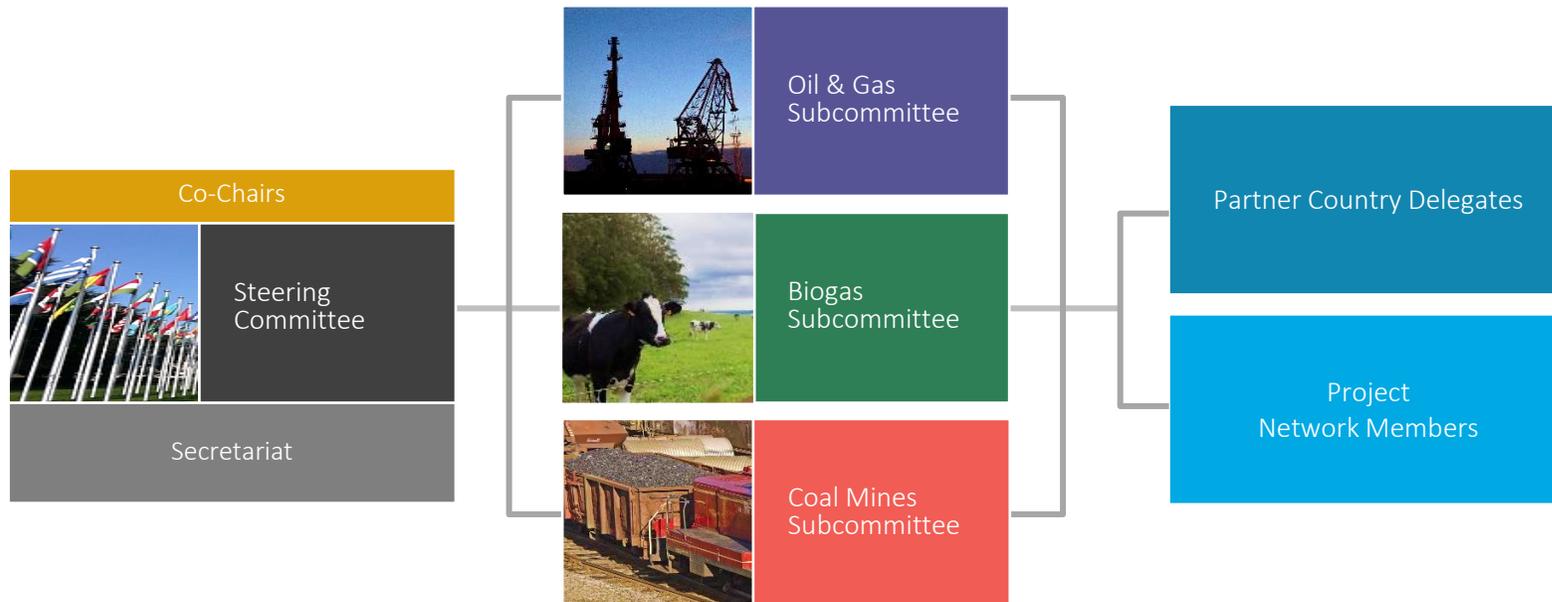
Monica Shimamura
Director, Secretariat



Global Methane Initiative (GMI)

GMI is an international public-private partnership focused on reducing barriers to the recovery and use of methane as a clean energy source.

- Re-chartered for 10 more years (until 31 May 2031)



- 45 Partner Countries
- 700+ Project Network members
- Alliances with international organizations focused on methane recovery and use



GMI Partner Countries represent approximately 75% of methane emissions from human activities.

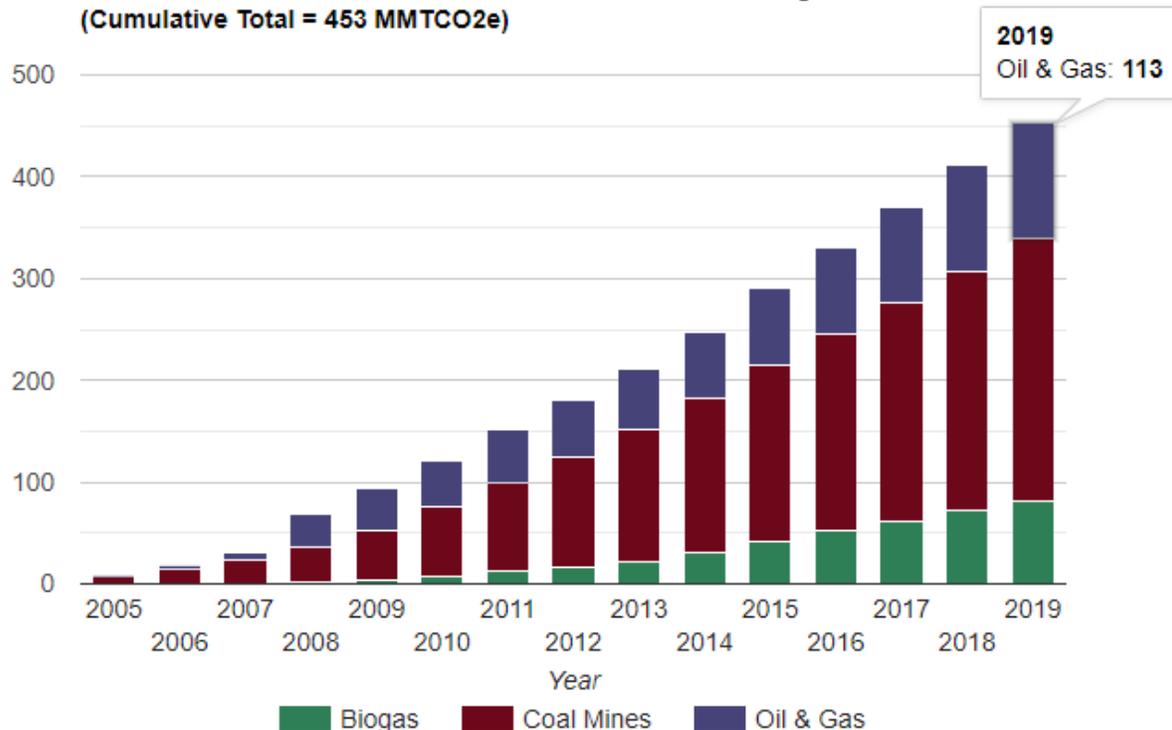


GMI Accomplishments Since 2004

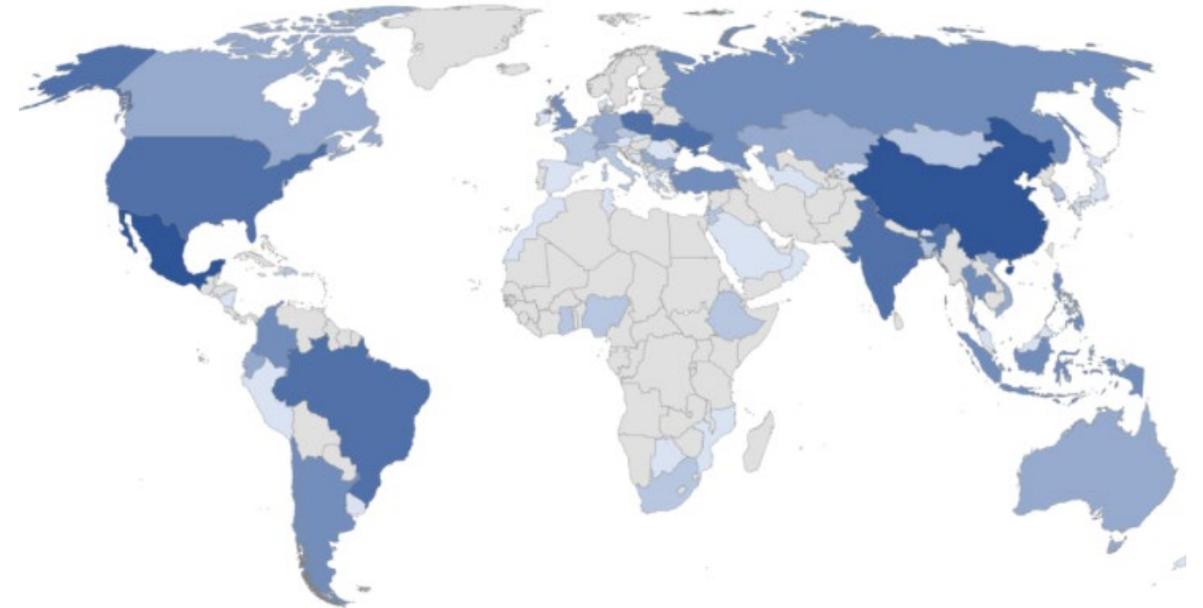
More than **450 MMTCO₂e** of methane emission reductions have been achieved through GMI projects since 2004, equivalent to the CO₂ emissions from approximately **51 Billion gallons** of gasoline consumed.

Through GMI since 2004, **70 countries** hosted activities where approximately **50,000 people** received more than **225,000 hours** of training on reducing methane emissions and capturing methane for productive uses.

Cumulative Methane Emission Reductions Achieved through 2019
(Cumulative Total = 453 MMTCO₂e)

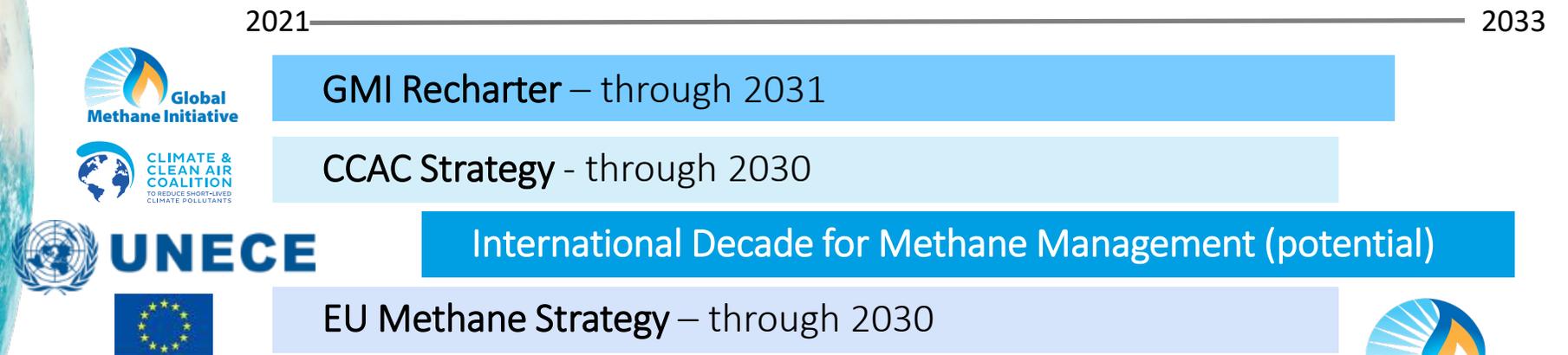


Locations of GMI Activities by Country Since 2004



It's an Exciting Time for GMI!

- GMI re-chartered through May 2031
 - Raise ambition and elevate international awareness of the critical need to reduce methane emissions now
 - Promote technical expertise and lessons learned
 - Harmonize efforts with The Paris Agreement, CCAC, EU Methane Strategy, and potential United Nations Declaration
 - Formalize new partnerships with key organizations



Recent Highlight

On 3 June 2021, GMI reached hundreds of global stakeholders through *A Call to Action on Methane*, a live event featuring keynote addresses and an industry panel discussion.

- Raised international awareness of the critical need to reduce methane emissions
- Emphasized opportunities for international leaders in industry, private sector, and government to take action
- Celebrated GMI's re-chartering



A recording of the live event will be available on [GMI's Call to Action website](#)



More than 800 individuals from 70 countries registered to attend

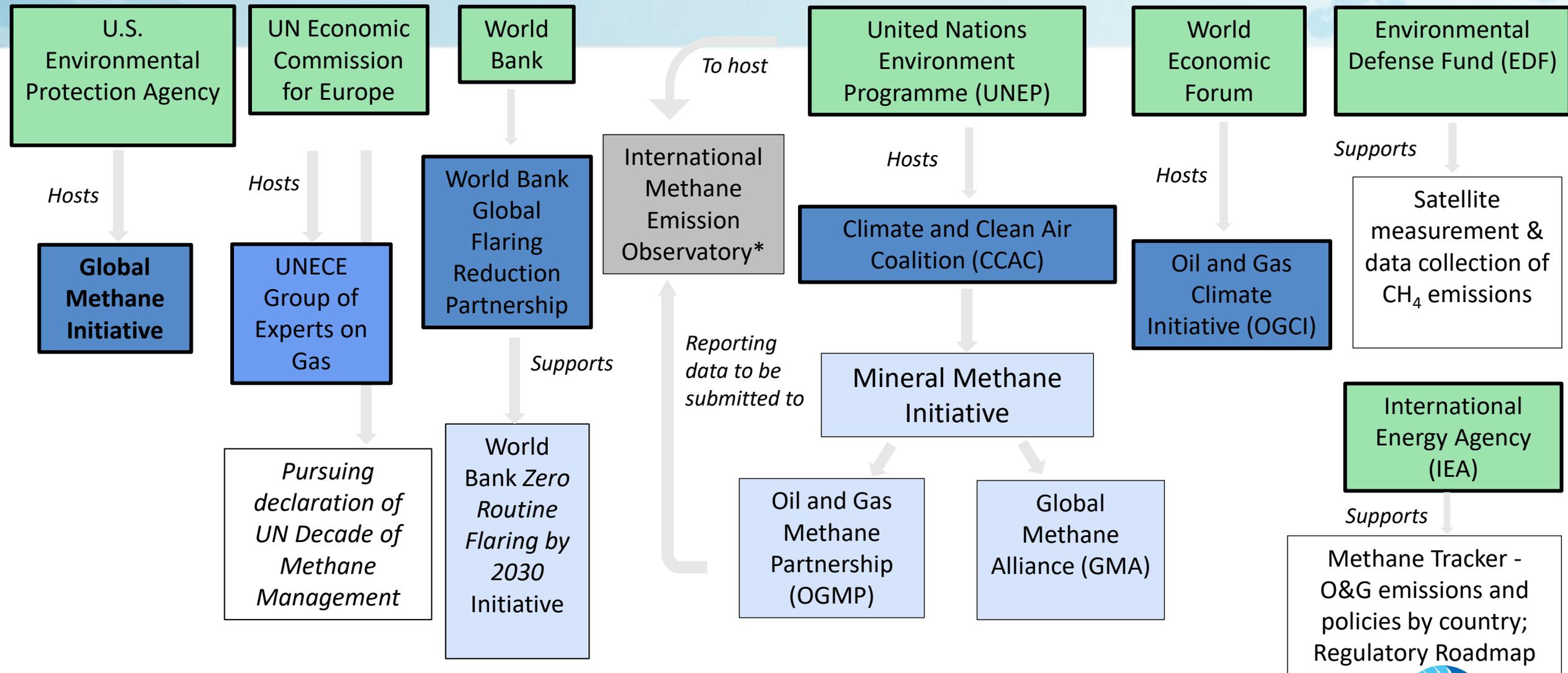
International Oil & Gas Landscape: Key Stakeholders and Initiatives

Denise Mulholland

Team Lead, International Methane Reduction Activities, USEPA



International Oil & Gas Landscape: Key Stakeholders and Initiatives



*The International Methane Emissions Observatory (IMEO) is to be funded and controlled by governments & non-private sector entities

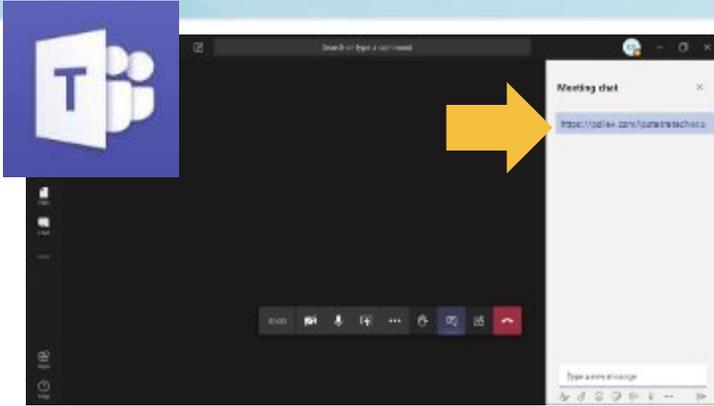
Summary of Other Key Oil & Gas International Initiatives

Program	Sponsoring Organization(s)	Number of Members/ Partners	Metric / Goal / Objective	Notes
Oil & Gas Methane Partnership (OGMP)	Climate and Clean Air Coalition (CCAC)	70+ companies	Improve quality and transparency of data within 3-5 years, report facility-level data from 95% of O&G methane sources via commitment to reporting framework	Member companies are responsible for 30+% of global emissions
Global Methane Alliance (GMA)	UN Environment Programme (UNEP)/ CCAC	2 countries committed	Countries commit to include O&G methane in NDCs and achieve either absolute methane emissions reduction target of 45% by 2025 and 60-75% by 2030 or Intensity target of "near-zero" methane emissions	GMA has also hosted meetings in over 15 countries
United Nations Economic Commission for Europe (UNECE) Group of Experts on Gas	United Nations	56 countries from Europe, North America, Asia	Cooperation with prominent organizations and industry experts; best practices and technology sharing	Working through the UN to establish an "International Year (or Decade) of Methane Management"
Global Gas Flaring Reduction Partnership	World Bank	17 countries, 12 companies, 3 int'l orgs.	Identify solutions to technical/regulatory barriers; develops country-specific flaring reduction programs; best practices sharing;	Supports World Bank's Zero Flaring by 2030 Initiative, commitments with 88 companies, governments and development institutions
Oil & Gas Climate Initiative (OGCI)	World Economic Forum	12 companies (CEOs)	Reduce collective average methane intensity of aggregated upstream O+G operations to below 0.25% by 2025 with the ambition to achieve 0.20%.	Each individual company determines its own target. Membership accounts for 30% of global O&G production.

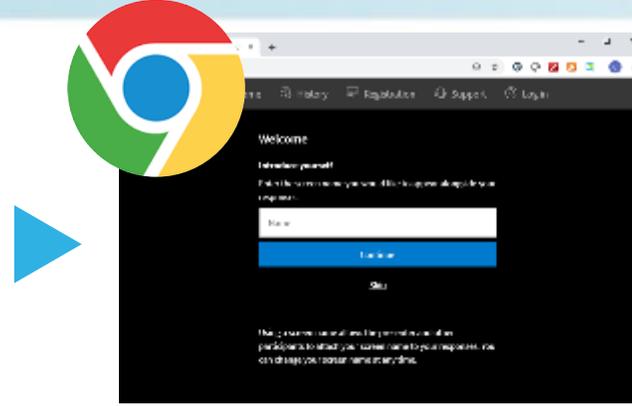
What Are Organizations Doing on Methane in the Oil & Gas Sector?

	Core Activities	GMI	CCAC OGMP	CCAC GMA	UNECE GEG	World Bank (GGFR)	OGCI	IEA	EDF	CATF
Information	Identify best practices and develop case studies and roadmaps for methane emissions reductions and use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
	Distribute tools, data, and resources about methane mitigation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>						
Policy Support & Design	Help companies and governments develop emissions reductions targets and/or design policy	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	Promote sustainable development goals to meet political commitments	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Advocate for and establish political will for global public policy	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Policy & Project Implementation Capacity Building, Training & Technical Support	Build capacity to implement O&G methane mitigation policies, projects	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Provide framework(s) for companies reporting emissions	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Provide targeted technical assistance to help governments develop and companies implement methane reporting systems and platforms	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Provide technical assistance to identify methane mitigation projects (National and small private O&G companies in developing countries)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Provide technical assistance to refine national methane inventories	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Advance private sector involvement in methane projects	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Conduct strategic study tours for government and industry stakeholders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Provide training for Oil & Gas stakeholders	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Facilitate connections among policy makers, communities, and industry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
Research and Technology	Conduct methane science studies	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>				
	Finance and conduct innovative technology demonstrations	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				

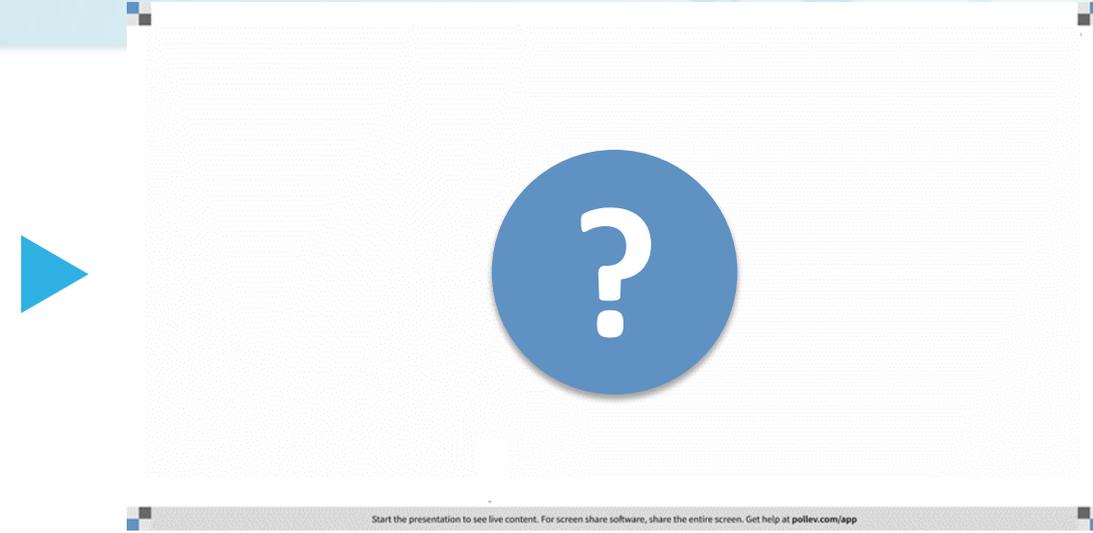
Poll - Instructions



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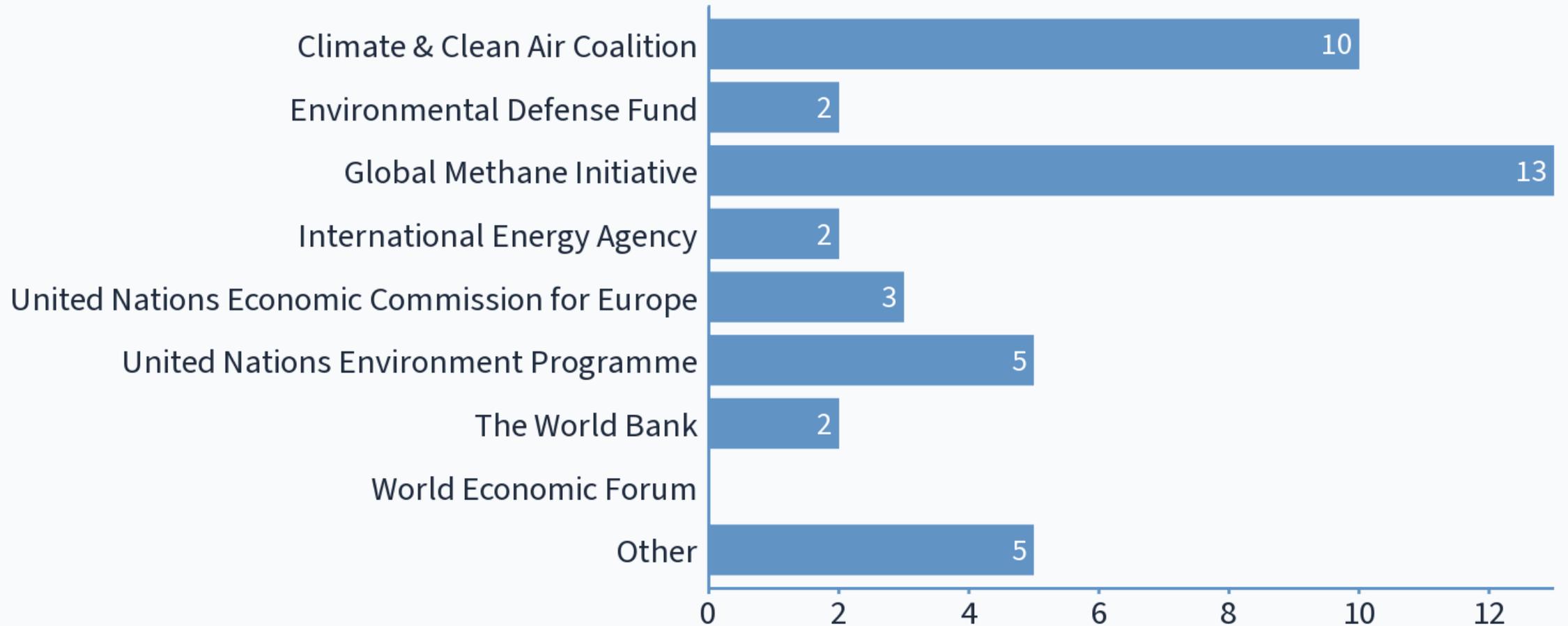
Help!

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Currently, I am engaged in activities with:



Oil & Gas Subcommittee – Accomplishments, Priorities, and Action Plan

James Diamond, GMI O&G Subcommittee Co-Chair,
Environment and Climate Change Canada (ECCC)

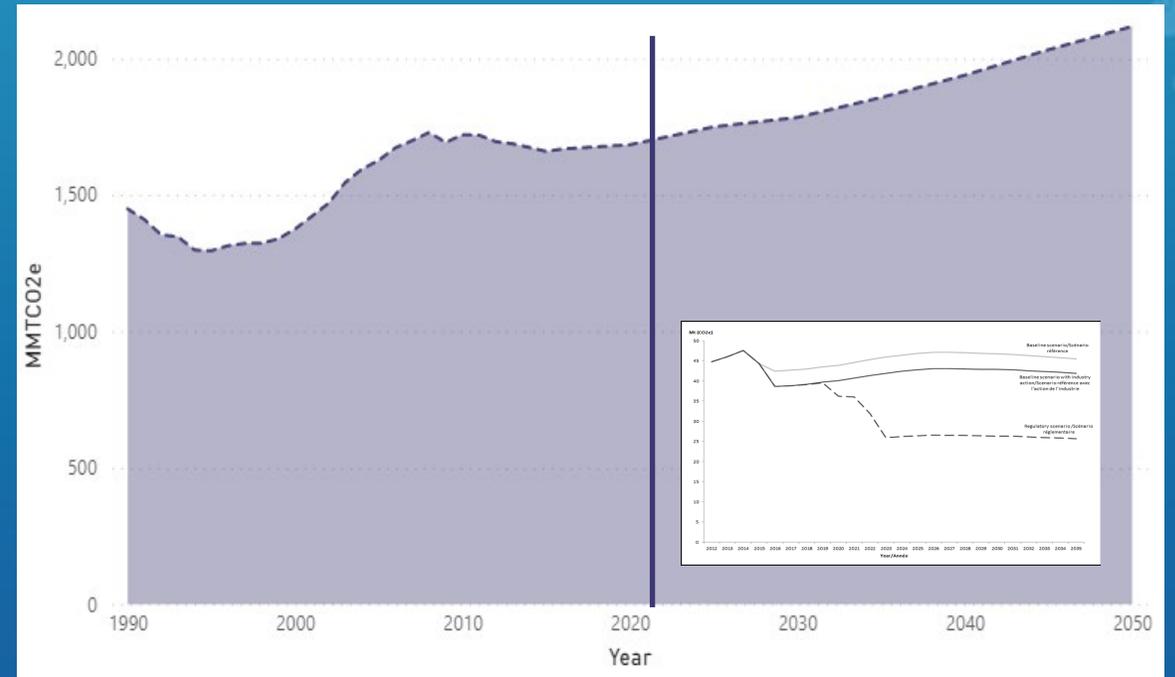


Bending the Curve

The Oil & Gas Subcommittee's objective is to reduce or eliminate emissions from oil and natural gas systems by encouraging collaboration between Partner Countries, Subcommittee members, and Project Network members.

- Identifying and deploying practical and cost-effective technologies and practices
- Developing strategies
- Building capacity and removing barriers

Global Methane Emission Projections in the Oil & Gas Sector through 2050



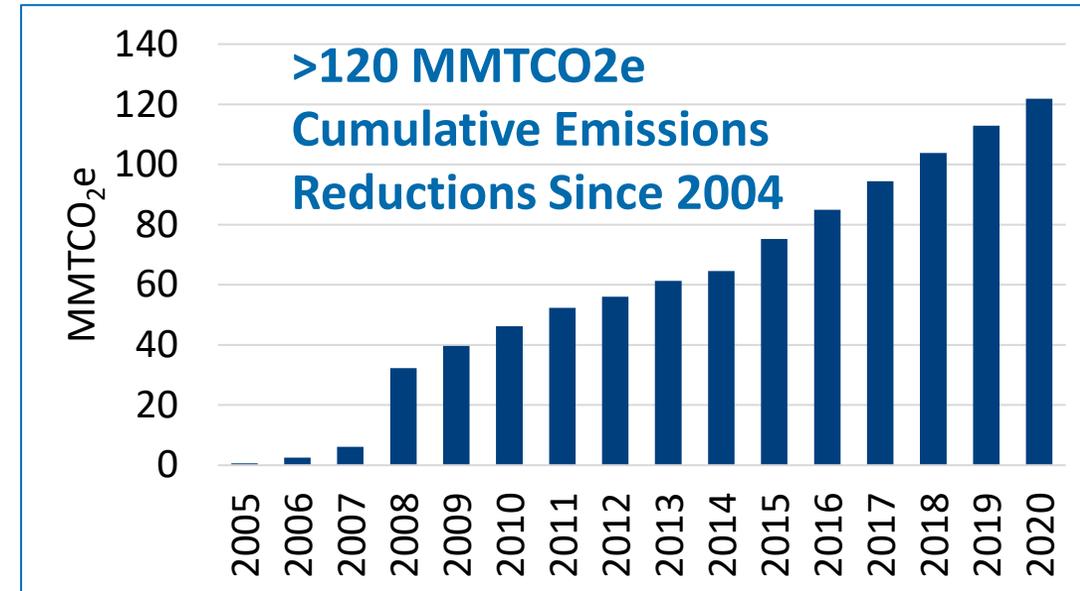
Data based on U.S. EPA report, *Global Non-CO₂ Greenhouse Gas Emission Projections & Mitigation Potential: 2015-2050*

GMI Oil and Gas Methane Mitigation Activities By the Numbers (2004-2020)

Partnership Activities Building relationships to foster actions	
84	Conferences
75	Numerous stakeholder coordination meetings
5	Steering Meetings
25	Subcommittee Meetings
42	Technical Presentations
2	Site Visits
233	Total since 2004

Capacity Building/ Information Sharing Fostering best practices	
25	Website updates and other outreach efforts
66	Workshops/Trainings
91	Total since 2004

Assessments Identifying opportunities for emissions reductions	
74	Measurement studies/ Prefeasibility studies
5	Study Tours
7	Publications/Reports
4	Tools/Models
90	Total since 2004



GMI Oil & Gas Subcommittee 2018-2021 Action Plan

Objectives and GMI Actions

Objective #1. Identify country-specific needs and opportunities

GMI Oil & Gas Subcommittee Activities

- GMI conducted telephone interview, online polls and surveys to identify country-specific needs and opportunities
 - Developed a list of top priority activities and topics for tech transfer
- GMI provided tools and guidance to Partner Countries to identify and implement national level actions to mitigate methane emissions
 - Provided technical expertise and training to Ecopetrol on CCAC OGMP's implementation plan, core emission sources and emission surveys
 - Provided training to PEMEX to conduct emission surveys
 - Provided training to PEMEX to mitigate methane emissions

GMI Oil & Gas Subcommittee 2018-2021 Action Plan

Objectives and GMI Actions

Objective # 2. Identify and address key barriers to project development

GMI Oil & Gas Subcommittee Activities

- GMI surveyed existing literature and compiled a list of known barriers to implement methane reduction projects
- Several Subcommittee members provided additional feedback to help identify key barriers
 - Argentina, Colombia, Ghana, Indonesia, Saudi Arabia, Turkey, and Ukraine
- In 2019, GMI held a panel discussion on how to address these barriers at the Global Methane Forum (GMF) in Geneva, Switzerland

GMI Oil & Gas Subcommittee 2018-2021 Action Plan

Objectives and GMI Actions

Objective # 3. Develop tools and resources to enhance capacity building efforts

GMI Oil & Gas Subcommittee Activities

- GMI developed reports on best practices to mitigate emissions
 - *Best Practice Guidance for Effective Methane Management in the Oil and Gas Sector: Monitoring, Reporting and Verification and Mitigation* (UNECE and GMI, 2019)
 - *Identifying and Evaluating Opportunities for Greenhouse Gas Mitigation & Operational Efficiency Improvement at Oil and Gas Facilities* (GMI, 2020)
- Conducted two pre-feasibility studies
- Initiated development of training resources (ETA 2021-2022) on:
 - *Designing and implementing a Leak Detection and Repair (LDAR) Program*
 - *Identifying and developing methane mitigation projects*
- Identified numerous policy and technical resources from various organizations (e.g. IEA, OGMP) and staged them on GMI's website

GMI Oil & Gas Subcommittee 2018-2021 Action Plan

Objectives and GMI Actions

Objective # 3.
Develop tools
and resources
to enhance
capacity
building
efforts

GMI Oil & Gas Subcommittee Activities (Continued)

- Conducted numerous technical webinars on policies and methane mitigation technologies, including the 2020-2021 Technical webinar [series](#) on **Methane Solutions: Policy and Technology**
 - *Mitigation technologies to reduce methane emissions*
 - *Marginal abatement cost curves for methane emission abatement technologies*
 - *Cost effective leak detection and repair programs*
 - *Improved Collection and Verification of Methane Emissions Data for Effective Mitigation*
- Hosted/participated in >10 trainings and workshops
- Identified numerous workshops, webinars, and conferences to share with GMI Partners
- Provided information to GMI Partners through listserv messages

GMI Oil & Gas Subcommittee 2018-2021 Action Plan

Objectives and GMI Actions

Objective # 4.
Establish long-term relationships that promote the GMI Oil & Gas Subcommittee objectives

GMI Oil & Gas Subcommittee Activities

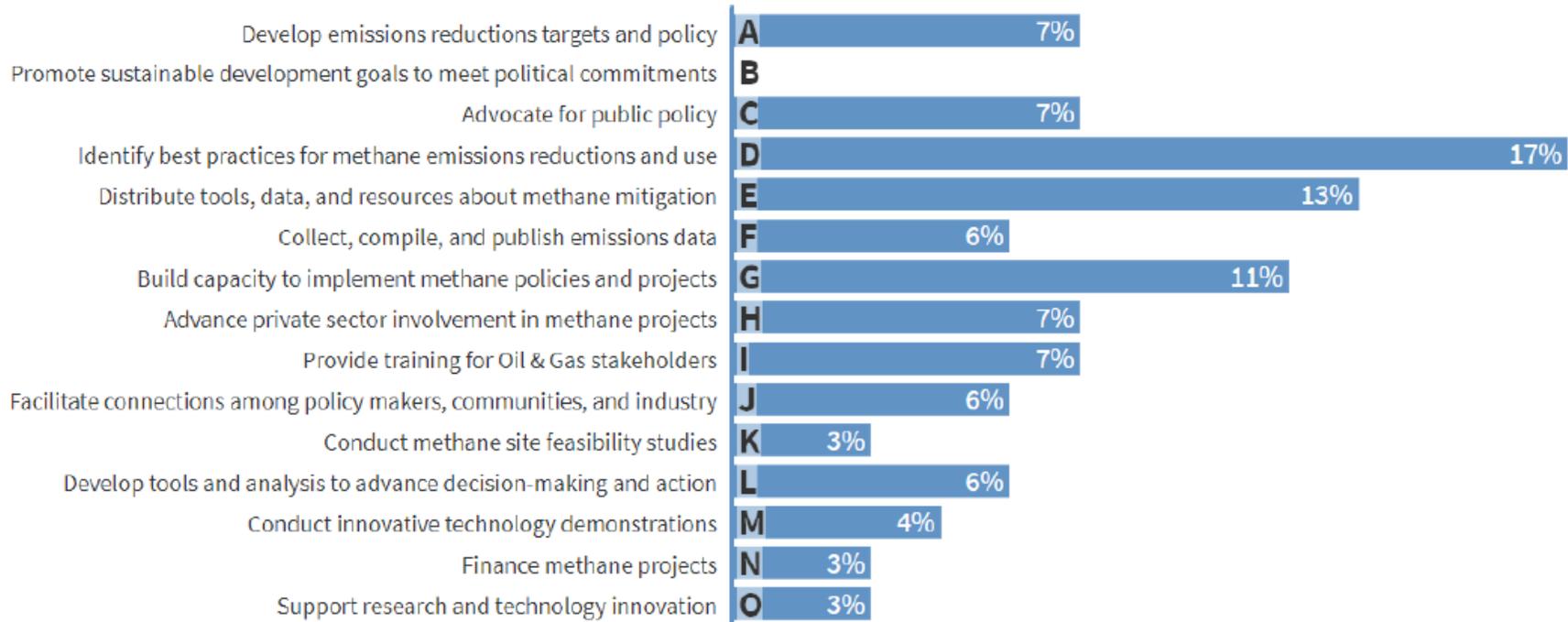
- Conducted numerous meetings to share information with the GMI partners, including 10 Subcommittee meetings and >15 other conferences, presentations and stakeholder coordination meetings
- Coordinated with GMI Partner Countries to nominate new subcommittee members
- Co-located meeting with UNECE Group of Experts
- Shared listserv messages to showcase new resources on the GMI website

Potential O&G Subcommittee Objectives and Activities for 2021 & Beyond?

Potential Objectives for GMI's Oil & Gas Subcommittee	Core Activities	GMI
Information Provide stakeholders easy access to best practices, tools, & information through GMI website, webinars, social media, events & other communications	Identify best practices and develop case studies and roadmaps for methane emissions reductions and use	<input checked="" type="checkbox"/>
	Distribute tools, data, and resources about methane mitigation	<input checked="" type="checkbox"/>
Policy Support and Design Build awareness, political will and capacity for companies and governments to set methane targets and design policies	Help companies and governments develop emissions reductions targets and/or design policy	<input type="checkbox"/>
	Promote sustainable development goals to meet political commitments	<input type="checkbox"/>
	Advocate for and establish political will for global public policy	<input type="checkbox"/>
Policy & Project Implementation - Provide targeted and broad capacity building, training and technical support - Build relationships - Increase the capacity of countries and companies to implement methane abatement, recovery and use policies and projects	Build capacity to implement O&G mitigation policies, projects	<input checked="" type="checkbox"/>
	Provide framework(s) for companies reporting emissions	<input type="checkbox"/>
	Provide targeted technical assistance to help governments develop and companies implement methane reporting systems and platforms	<input checked="" type="checkbox"/>
	Provide technical assistance to identify methane mitigation projects (National and small private O&G companies in developing countries)	<input checked="" type="checkbox"/>
	Provide technical assistance to refine national methane inventories	<input checked="" type="checkbox"/>
	Advance private sector involvement in methane projects	<input checked="" type="checkbox"/>
	Conduct strategic study tours for government, industry stakeholders	<input checked="" type="checkbox"/>
	Provide training for Oil & Gas stakeholders	<input checked="" type="checkbox"/>
	Facilitate connections among policy makers, communities, and industry	<input checked="" type="checkbox"/>
Research and Technology Provide access to research, analysis and tools to help stakeholders advance oil & gas methane projects	Conduct methane science studies	<input type="checkbox"/>
	Finance and conduct innovative technology demonstrations	<input type="checkbox"/>

Priorities selected during Oil & Gas Subcommittee Meeting – Oct 2020

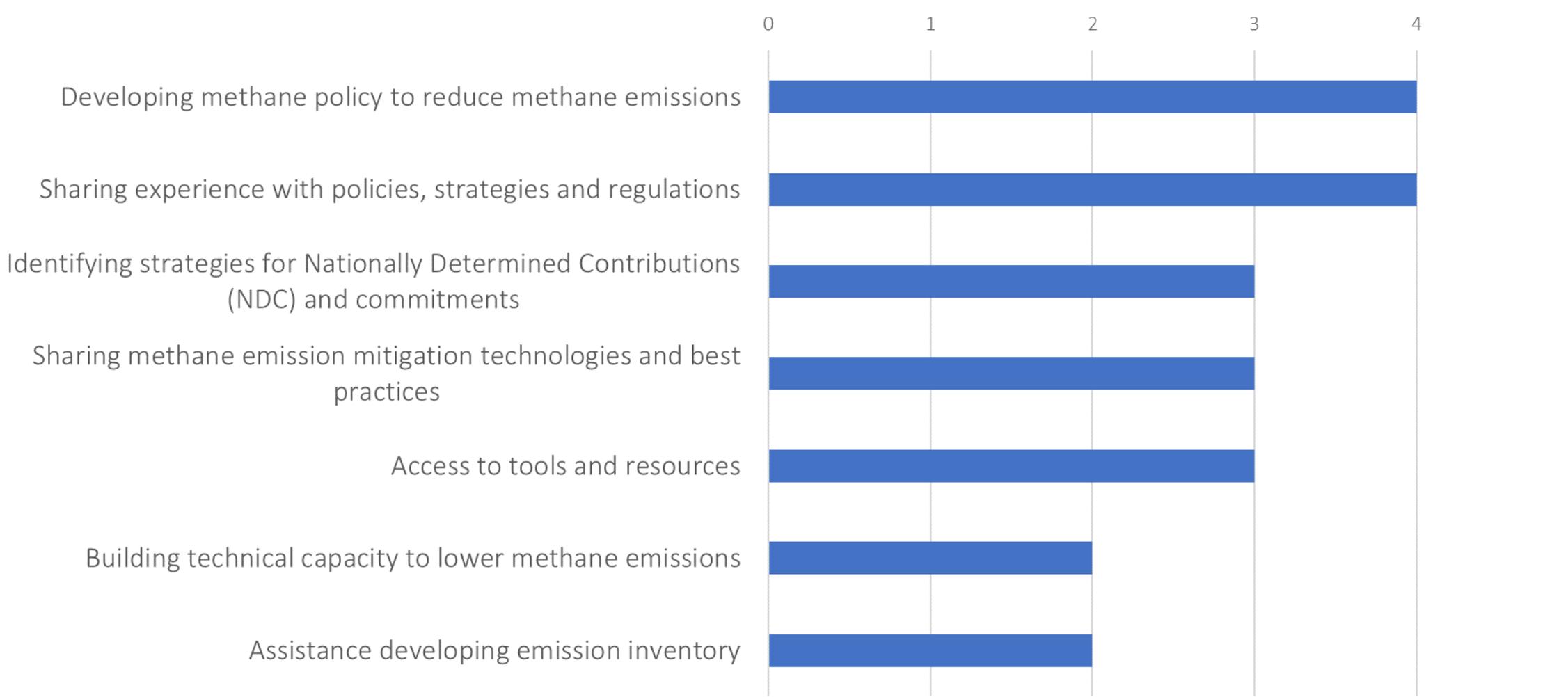
Pick three activities that we should prioritize.



Top priorities:

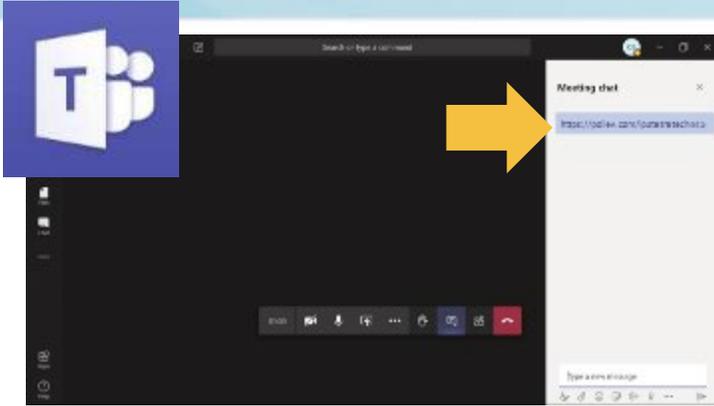
- Identify best practices for methane emissions reductions and use
- Distribute tools, data, and resources about methane mitigation
- Build capacity to implement methane policies and projects

Partner Country Survey Results – June 2021

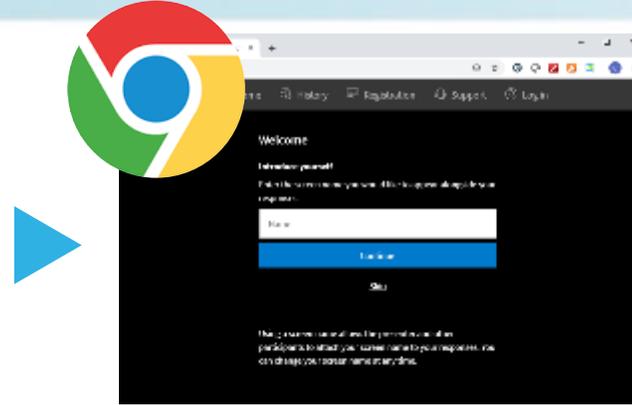


Identify your key objectives from participation in the GMI Oil & Gas Subcommittee.

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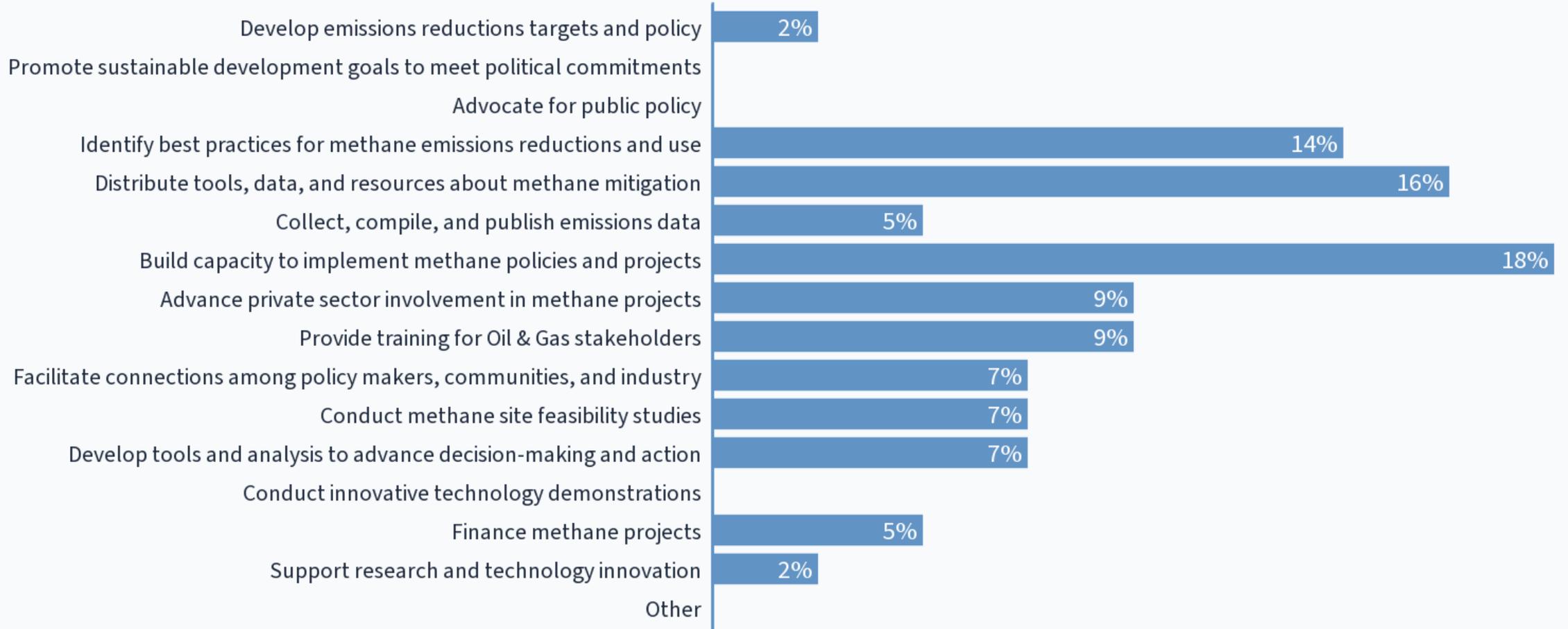
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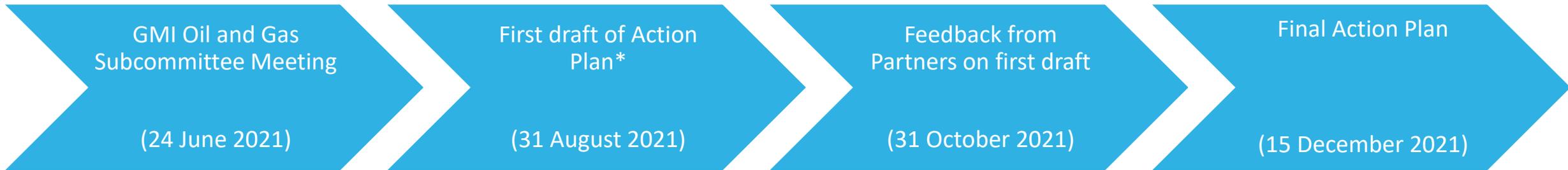
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Pick three activities that we should prioritize.



Developing the 2021-2024 Action Plan

Development of New Action Plan – Process and Timeline



**Secretariat to schedule interim discussion with work group*



If you would like to participate in a work group to develop the new Action Plan, send an email to the GMI Secretariat (asg@globalmethane.org).

We aim for the work group to include a small number of delegates, solution providers, and companies.

Wrap Up and Next Steps

- Identify next steps for Action Plan
 - Set up Action Plan work group
 - Schedule call to discuss process and schedule
- Secretariat will prepare a meeting summary and action items based on today's discussion
- A recording of today's Subcommittee meeting and this presentation will be posted on the GMI website soon
- Stay tuned for news and updates about:
 - Development of the 2021-2024 Oil & Gas Action Plan
 - Other oil & gas activities and events promoted by GMI
 - Oil & Gas Subcommittee webinars

Reminder

We welcome your feedback!
We encourage you to share suggestions by email to asg@globalmethane.org.

Immediate Opportunities to Engage:



Follow GMI on social media



Global Methane CHALLENGE

CALENDAR						
Su	M	Tu	W	Th	F	Sa
Share resources, events, and news to be promoted by GMI						
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					



Global Methane Initiative
Project Network Member

Join the GMI Project Network

Thank you
for
participating
today