

Oil & Gas Subcommittee

2020 Updates and Plans for 2021 and Beyond

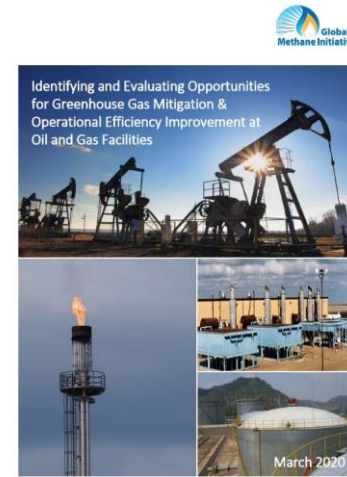
James Diamond, GMI Oil and Gas Subcommittee Co-Chair,
Environment and Climate Change Canada (ECCC)

GMI Steering Committee Meeting, 2 December 2020



2020 Highlights: Technical Resources

- Collaborated with other agencies (UNECE) and developed technical resources
- Initiated development of training resources
 - Leak Detection and Repair (LDAR) Program
 - Identification and Development of Methane Mitigation Projects



Identifying and Evaluating Opportunities for Greenhouse Gas Mitigation & Operational Efficiency Improvement at Oil and Gas Facilities



Best Practice Guidance for Methane Management in the Oil and Gas Sector

2020 Highlight: Technical Webinars

- Conducted technical webinars
 - Seeing Methane the Invisible Problem... Who is Using Which Number?
 - Methods for detecting and quantifying methane emissions
 - 90 people attended
 - Methane Emissions Mitigation Technology and Innovation
 - Applying available and emerging methane reduction technologies to operations
 - 94 people attended

The screenshot shows a webinar slide with the following content:

Brownfield
Replacing Pneumatics Devices with Zero Venting Low Power Bear Electric Controls

Steps to consider for retrofitting

- Carbon Credits till 2028**
 - Inventory of each pneumatic device
 - Require to measure each instrument
 - Reports / Audit / Cost
- Well site location**
 - Maintenance Issues (Wet/Sour/Dirty fuel gas)
 - High Venting from Pneumatic devices (>0.17 m³/hr)
 - High bleed to low bleed pneumatic devices
- Instrumentation Equipment Replacement**
 - Valve Replacement
 - Choosing the correct electric actuators
 - RTU upgrading / Programming
 - Installation
- Power Requirements**
 - Power on site? (Solar/TEG/Grid Power)
 - Power budget
 - Chemical pump addition
- Cost**

The slide includes several "Before" and "After" photographs of industrial equipment:

- Back Pressure Control Valve:** Shows a complex pneumatic valve assembly before and a simpler electric actuator after.
- Inlet Pressure Control Valve:** Shows a pneumatic valve before and an electric actuator after.
- Level Controllers:** Shows a pneumatic valve before and an electric actuator after.
- Level Control Valve:** Shows a pneumatic valve before and an electric actuator after.

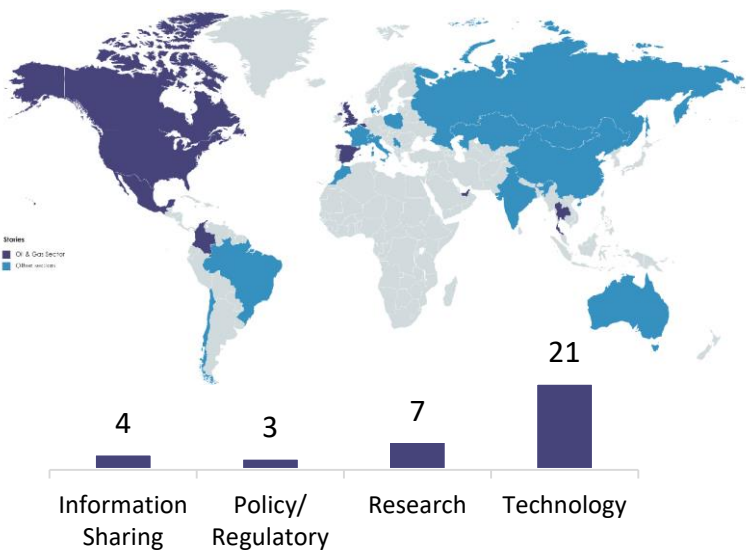
The bottom of the slide features a video player interface with a progress bar at 17:02 / 59:38 and several participant icons.

Other 2020 Highlights

- Continued to build relationships with strategic partners to improve outreach and capacity building
 - Promoted tools, resources and events of other organizations in the oil and gas sector
 - Enhanced social media messaging to promote oil and gas events and news

▲

GMI Oil & Gas Mailing List increased from **542** to **748** subscribers in the last 12 months



Global Methane Challenge

35 Oil and Gas Submissions
Representation from **9** countries



2020 Subcommittee Meeting

- The O&G Subcommittee virtual meeting focused on:
 - Reviewing 2020 accomplishments
 - Identifying Subcommittee priorities for 2021 and beyond
 - Discussing key opportunities to collaborate
 - 55 people attended

Attendees discussed:

- Direction of the Subcommittee
- GMI's role among global organizations addressing methane mitigation

	Core Activities	GMI	OGMP 2.0*	GMA	UNECE	World Bank	IEA	OGCI	EDF	CATF
Policy	Develop emissions reductions targets and policy	<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 checked="" type="checkbox"/>
	Promote sustainable development goals to meet political commitments	<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"/>	<input type="checkbox"/>
	Advocate for public policy	<input 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 checked="" type="checkbox"/>
Information	Identify best practices for methane emissions reductions and use	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Distribute tools, data, and resources about methane mitigation	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Collect, compile, and publish emissions data	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Capacity Building and Training	Build capacity to implement methane policies and 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 type="checkbox"/>	<input type="checkbox"/>
	Advance private sector involvement in methane projects	<input checked="" type="checkbox"/>	<input checked="" 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"/>
	Host training events for Oil & Gas stakeholders	<input 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"/>

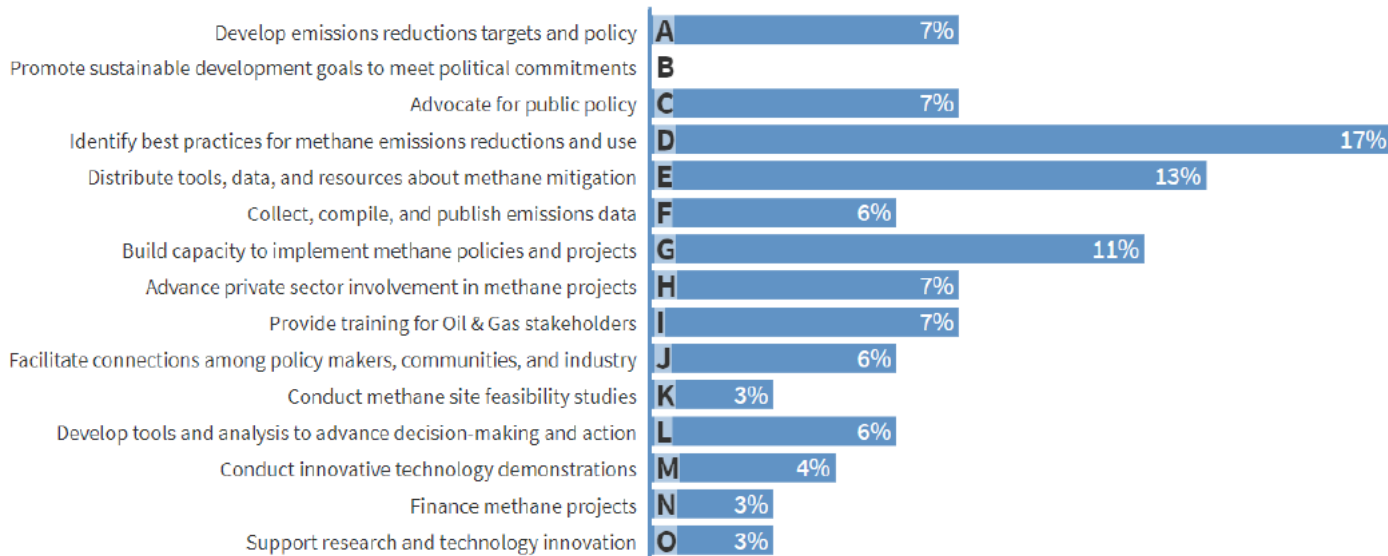
2021 Top Priorities and Activities



Select three webinar topics that interest you the most.



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

Priority actions:

- Conduct a series of webinars hosted by technical experts:
 - Mitigation technologies to reduce methane emissions
 - Marginal abatement cost curves for methane emission abatement technologies
 - Cost effective leak detection and repair programs
- Develop training resources
- Promote technical tools and resources and upcoming events

Oil & Gas Subcommittee Perspective on the Future of GMI

- Keep GMI's mandate as flexible as possible with a broad scope to accommodate changing policy and technological advances
- Expand collaboration with other international efforts for methane mitigation
 - Gain a better understanding of the role of GMI in the context of other international activity
 - Consider inter-regional initiatives
- Encourage increased participation by Partner delegates
- Explore options to expand non-government representation in the Subcommittee



FUTURE

Immediate Opportunities to Engage



Oil & Gas Subcommittee

Express interest in filling Oil & Gas Subcommittee Co-Chair position



Provide feedback on topics of planned Webinar Series and other future topics

Identify case studies for planned GMI report:



The Investment Decision Process for Greenhouse Gas (Methane) Mitigation Projects/Opportunities/Options

Global Methane CHALLENGE

CALENDAR

Su	M	Tu	W	Th	F	Sa
1	2	3	4	5	6	7
Share resources, events, and news to be promoted by GMI						
22	23	24	25	26	27	28
29	30					



Global Methane Initiative
Project Network Member

[Join the GMI Project Network](#)



Follow GMI on social media