





Strategic Collaboration to Minimize Global Methane Emissions Oil & Natural Gas Sector

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Scott Bartos, U.S. EPA
David Elzinga, UNECE
Phil Swanson, UNEP / CCAC

Agenda



- Purpose
- Background GMI, UNECE, and CCAC
- Global Coverage
- Strategic Collaboration
- Oil and Gas Sector
 - Opportunities for Collaboration
 - Proposed Next Steps
- Discussion







Purpose



- Explore opportunities for improving coordination amongst global stakeholders seeking to minimize oil and gas sector methane emissions
- Strengthen the global network of oil and gas sector experts, increase visibility and promote efficient technology transfer and capacity building





Global Methane Initiative (GMI)





- The GMI promotes cost-effective, near-term methane recovery through partnerships between:
 - Developed and developing countries (43 countries around the globe)
 - Over 100 private sector companies
 - Development banks
 - Nongovernmental organizations

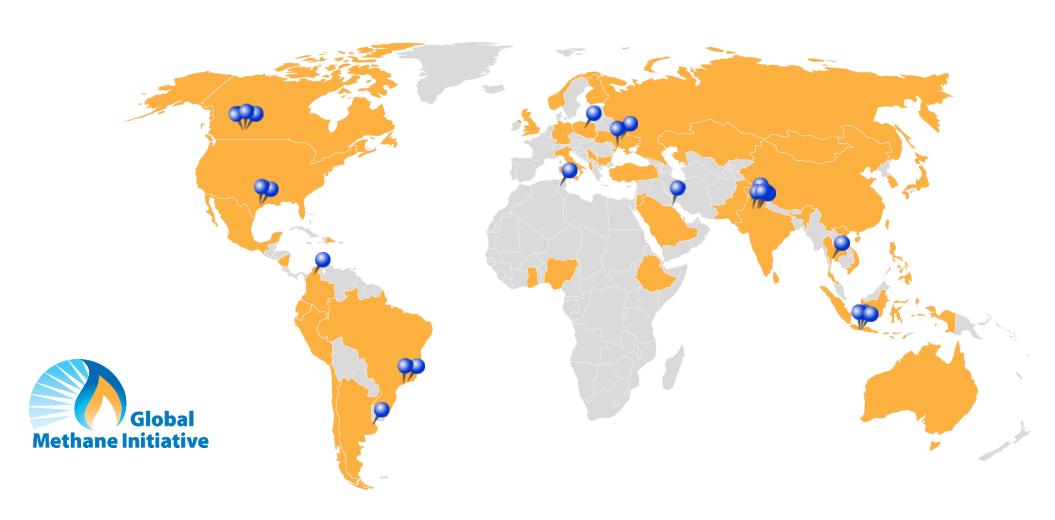






GMI Member Countries and Oil & Gas Partner Companies











United Nations Economic Commission for Europe (UNECE)



- UNECE includes 56 member states in Europe,
 North America, Central Asia, and Western Asia
- Focuses on methane management in extractive industries (i.e., coal, natural gas, and oil)

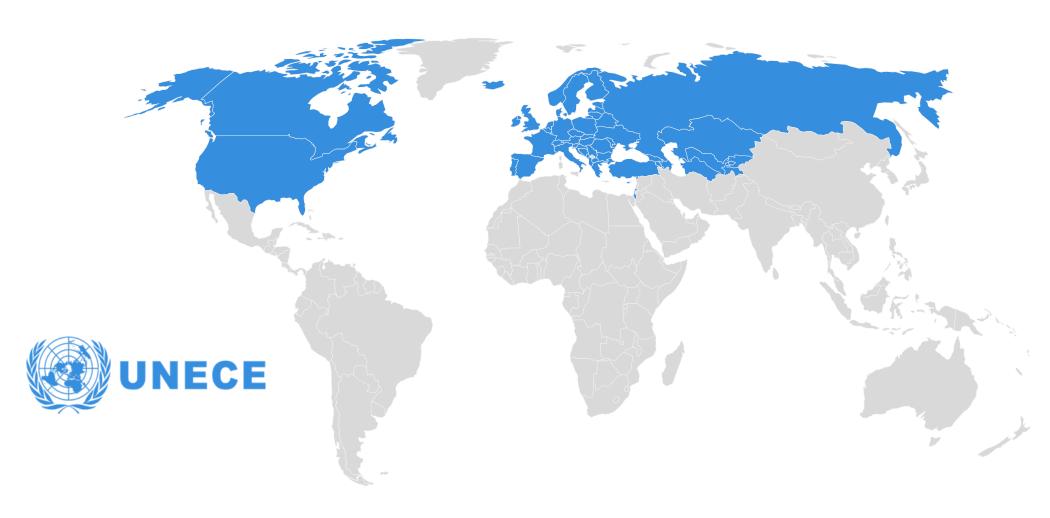






UNECE Member States











UNECE (continued)



- UNECE works with UN Framework Classification for Fossil Energy and Mineral Reserves and Resources (UNFC) and partnerships with other organizations such as the World Petroleum Council and the World Bank that covers all fossil fuels.
- UNECE under the auspices of its Sustainable Energy Division established Groups of Experts on Gas (GEG) to develop Best Practice Guidance for reducing methane emissions from the natural gas value chain.
- The Group of Experts on Coal Mine Methane (CMM) is a subsidiary body of the Committee on Sustainable Energy (CSE) that promotes the reduction of greenhouse gas emissions from coal mines. Its activities on recovery and use of methane reduce the risks of explosions in coal mines.







Climate & Clean Air Coalition (CCAC)





- CCAC is a partnership of governments, civil society, and the private sector
 - 50 countries
 - 16 Intergovernmental organizations
 - 44 Non-governmental organizations
- CCAC seeks to reduce short-lived climate pollutants (SLCPs) including methane, black carbon, and hydrofluorocarbons by focusing on 7 sector-specific initiatives and 4 cross-cutting initiatives

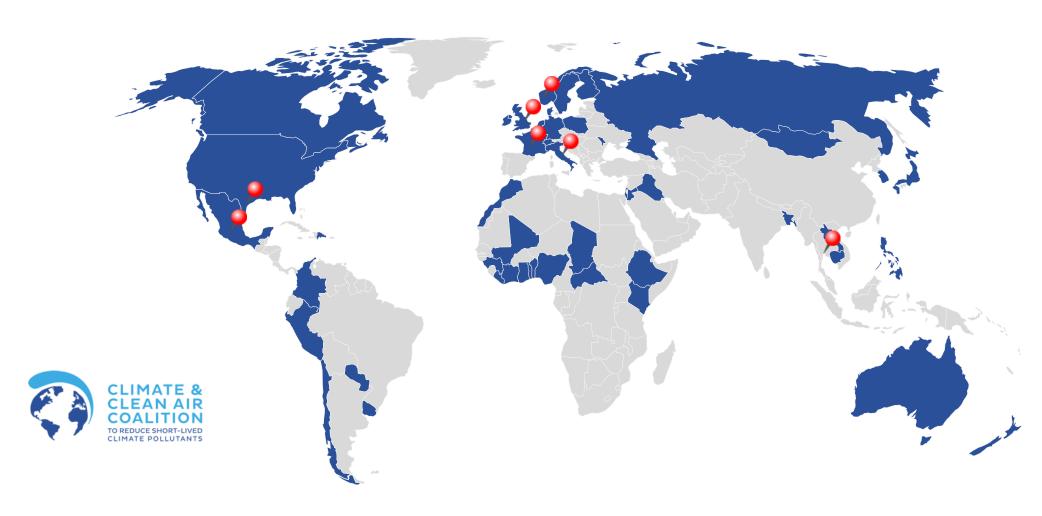






CCAC Member Countries and **OGMP Partner Companies**











CCAC (continued)



- CCAC works with key stakeholders to facilitate cooperation and the implementation of measures that reduce methane emissions from natural gas venting, leakage, and flaring through the "Accelerating Methane and Black Carbon Reductions from Oil and Natural Gas Production" initiative
- CCAC Oil and Gas Methane Partnership (OGMP) seeks to expand and accelerate near-term reductions in methane emissions from <u>upstream</u> oil and gas operations globally





Overlap of Focal Areas - GMI, UNECE, and CCAC



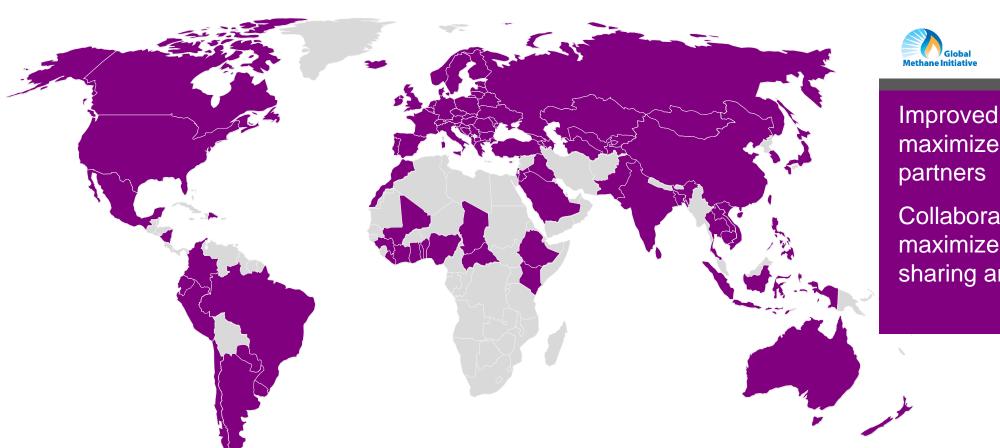
- Substantial overlap in focal areas, technical expertise, and membership base.
- Numerous countries and companies are members of all three organizations - GMI, UNECE and CCAC





Global Coverage - GMI, UNECE, and CCAC











Improved coordination will maximize the benefits to partners

Collaboration will help maximize efficient information sharing and capacity building







Strategic Collaboration - GMI, UNECE, and CCAC



- GMI, UNECE, and CCAC have initiated collaboration on methane-related activities
 - Clarifying relationships between ongoing efforts
 - Identifying potential areas for consolidation and improved efficiency
- Successful collaborations:
 - UNECE became a Non-State Partner in the CCAC in 2015.
 - GMI's Steering Committee adopted recommendations of its task force to strategically partner with CCAC and UNECE in methane mitigation efforts
 - CCAC and GMI agreed to co-organize the 2016 Global Methane Forum







Strategic Collaboration - GMI, UNECE, and CCAC (continued)



Natural Gas Sector

- Discussions between GMI's Oil & Gas Subcommittee, UNECE GEG and CCAC's OGMP have identified opportunities:
 - Bring together key stakeholders countries, companies, stakeholders, NGOs and academia
 - Increase awareness of methane mitigation opportunities
 - Improve information sharing on methane monitoring and recovery technologies and practices







Oil & Gas Sector: Opportunities for Collaboration



- GMI, UNECE, and CCAC share a common goal of supporting efforts to reduce methane emissions from the oil and/or natural gas sector via collaboration with governments, industry and other key stakeholders
 - UNECE's GEG plans to develop Best Practice Guidance for reducing methane emissions from the natural gas value chain
 - GMI and CCAC can collaborate with UNECE to share existing technical resources and support the development and dissemination of the UNECE's Best Practice Guidance document
 - EPA's extensive technical library and CCAC OGMP Technical Guidance Documents
 - GMI has provided technical assistance to Partner Companies to conduct methane emission identification and measurement field studies around the globe
 - Future studies could be jointly organized under a collaborative GMI/UNECE/CCAC effort to improve visibility, accelerate information sharing and encourage participating companies to join OGMP
 - Closer collaboration amongst GMI, UNECE, and CCAC will strengthen the global network of oil and gas sector experts, increase visibility and promote efficient technology transfer and capacity building







Oil & Gas Sector: Proposed Next Steps



- Identify key points of contact:
 - GMI, UNECE, CCAC, and other (e.g., World Bank-led Global Gas Flaring Reduction Partnership?)
- Identify priority regions and stakeholders specific areas for cooperation
 - UNECE is focused on natural gas value chain and has a well-defined geographic focus
 - CCAC OGMP works globally with upstream oil and gas producers
 - GMI works globally with the entire oil and gas value chain, subject to resource constraints
- Communicate on upcoming meetings / workshops and projects seek to synchronize and cobrand complementary activities and events
 - Create a unified calendar and identify opportunities for cooperation







Oil & Gas Sector: Proposed Next Steps (continued)



- Upcoming opportunities for collaboration in 2016:
 - Introduce oil and gas sector opportunities for collaboration and seek stakeholder feedback GMF
 - Kazakhstan field study / workshop with Carbon Limits
 - Methane emissions measurement campaign under consideration by CCAC OGMP Partners
 - Annual meeting to convene oil and gas stakeholder communities hosted at UNECE Geneva Headquarters Campus (Palais des Nations)
- Consider creation of Annual "Innovation Award." to recognize novel methane mitigation practices and technologies









Discussion





