

Update from the Climate and Clean Air Coalition Oil and Gas Methane Partnership (CCAC OGMP)

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Climate and Clean Air Coalition Oil & Gas Methane Partnership

Joint Meeting of UNECE and the Oil and Gas Subcommittee of the Global Methane Initiative

Manfredi Caltagirone – Geneva, March 2019

Climate and Clean Air Coalition

Designed through broad collaboration



- Formed in 2012
- Voluntary partnership of over 120 state and non-state partners committed to improving air quality and protecting the climate through actions to reduce short-lived climate pollutants
- **CCAC Oil and Gas Initiative** is focused on accelerating methane and black carbon reductions from oil and natural gas production. 4 components:
 1. **Oil & Gas Methane Partnership:** voluntary reporting framework
 2. **Oil and gas methane science studies**
 3. Technology demonstration: reduce black carbon from gas flares
 4. Peer-to-peer technical assistance to policy makers and regulators in developing countries

Oil & Gas Methane Partnership

Background

- Many CCAC countries envision increased role for gas
- Stakeholders are concerned that methane emissions undermine climate benefits of gas

Ministers gave CCAC mandate to create a voluntary methane emissions reporting mechanism:

- ✓ meets concerns of stakeholders
- ✓ implementable by companies
- ✓ developed with GMI, US EPA Natural Gas Star, World Bank

CCAC consultations:

- ✓ Oil & gas companies - IPIECA workshops and individually
- ✓ NGOs, investor groups, reporting initiatives

Oil & Gas Methane Partnership

Launch of OGMP



→ Launched at UN Climate Summit, September 2014

Voluntary mechanism to help companies

- ✓ Address emissions in a systematic manner
- ✓ Demonstrate this systematic approach
- ✓ Obtain recognition of leadership



Initial focus on nine “core sources,” now broader focus



Technology Application Approach → 9 core emission sources*

- Well venting of liquids unloading
- Centrifugal compressors with wet (oil) seals
- Glycol dehydrators
- Natural gas driven pneumatic devices, pumps
- Casing head gas venting
- Fugitive equipment and process leaks
- Reciprocating compressor rod seal/packing
- Hydrocarbon liquid storage tanks
- Well venting/flaring during well completion for hydraulically fractured wells

- ✓ Identified through US EPA Natural Gas Star experience and company consultations to account for much of upstream methane emissions
- ✓ OGMP recently revised its reporting framework to focus on more holistic performance reporting and increase recognition of companies' efforts to reduce methane emissions
- ✓ Focus moved away from 9 core sources and mitigation concept to overall emissions from all sources
- ✓ Partners can now report on incomplete combustion from flaring, on cold venting and other relevant CH₄ emissions sources

Oil & Gas Methane Partnership

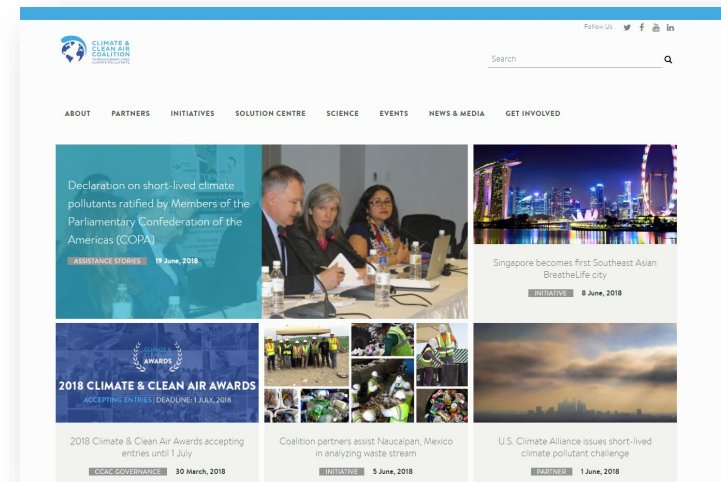
Important Features



Up-front flexibility

- ✓ Company selects participating assets – No minimum
- ✓ Company decides pace of implementation/addition
- ✓ Reporting begins following first full year

- Platform for learning
- No membership fee
- Technical support & capacity building
 - surveys
 - emission calculations
 - evaluating opportunities
- Recognition of efforts



Oil & Gas Methane Partnership

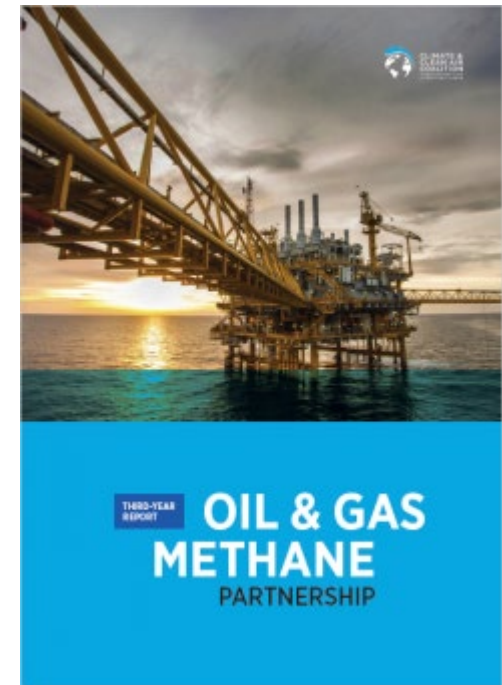
Summary of Commitments (MoU)



- **Implementation Plan after 6 months (confidential)**
 - ✓ list of participating assets, expected pace

- **Survey participating assets for 9 core sources**
 - Determine state of mitigation (ref TGDs)
 - For “unmitigated” sources
 - ✓ Quantify emissions
 - ✓ Evaluate cost-effective control options
 - ✓ Implement feasible opportunities

- **Annual report to CCAC – confidential**
- **Recognition of efforts**
- **Company-specific public version of report**





Oil & Gas Methane Science Studies

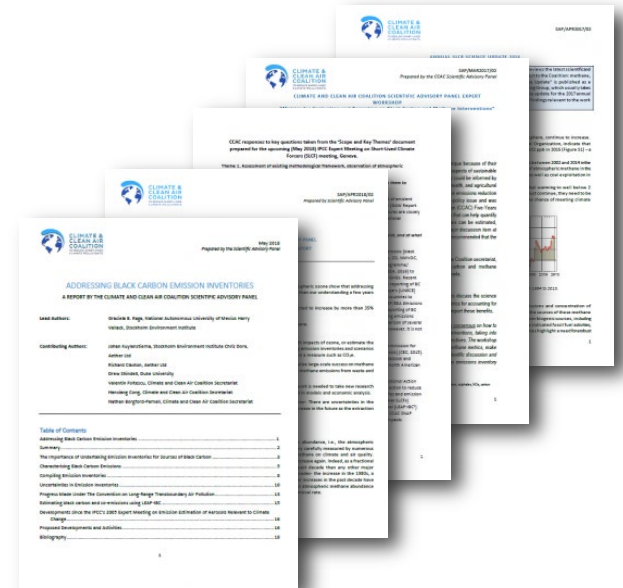


Oil & Gas Methane Science Studies



Background

- Phase-1: prioritized knowledge gaps to address in methane measurement studies under Phase-2
- Build on experience of EDF-led studies in US
- \$6.6+ million pledged
- Invitation to participate



Oil & Gas Methane Science Studies

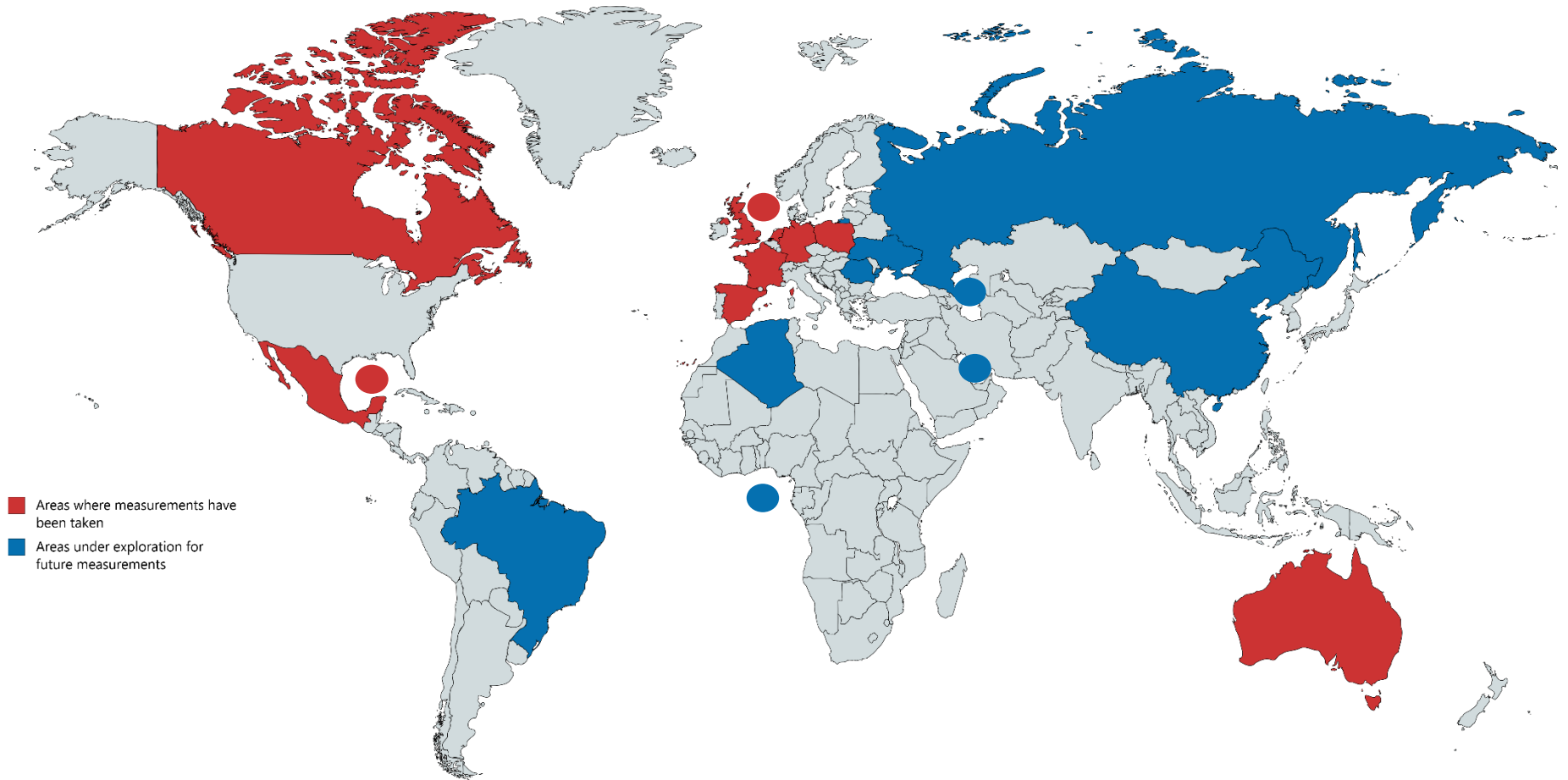
Five Guiding Principles



- 1) Led by academic scientists
- 2) Multiple methodologies
- 3) Review by independent scientific experts
- 4) All data public
- 5) Publish results in peer reviewed journals

Oil & Gas Methane Science Studies

Measurements



Thank you



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