



The Oil and Gas Methane Partnership 2.0

UNEP's flagship oil and gas reporting and
mitigation programme

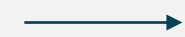
April 2025





International Methane Emissions Observatory

Better data for methane mitigation in the oil and gas sector



Data flow of the IMEO

COLLECT DATA



- OGMP companies' assets data
- Science measurements studies
- National inventories
- Satellite data

Apply Big Data, data science, and machine learning



Reconcile inconsistencies and identify gaps



GENERATE FINAL PRODUCTS



- Full methane emissions dataset
- Annual methane report
- Direct measurement studies
- Science-based implementation support

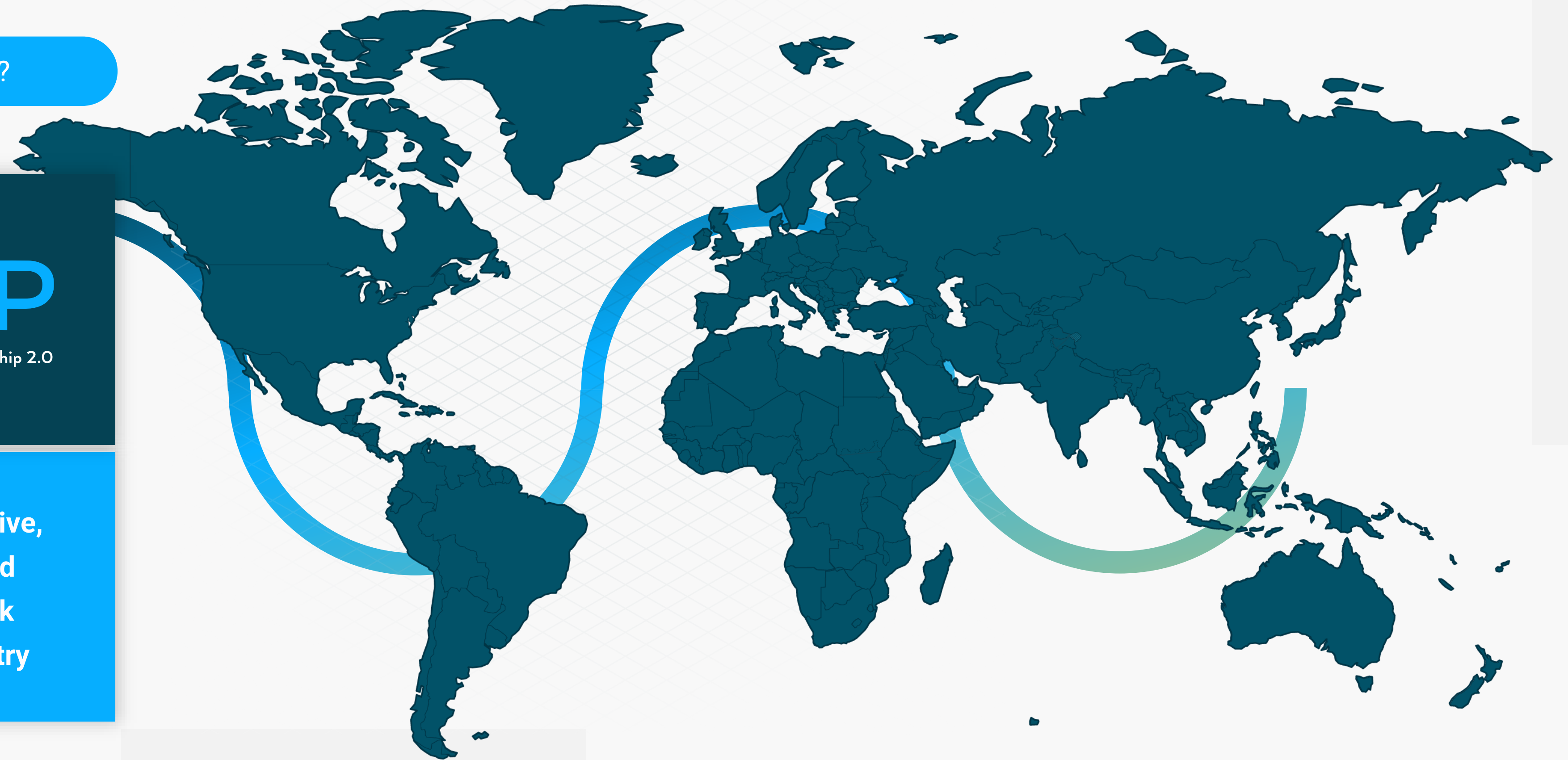


The Oil and Gas Methane Partnership 2.0

What is OGMP 2.0 ?



The only comprehensive,
measurement-based
reporting framework
for oil and gas industry





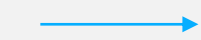
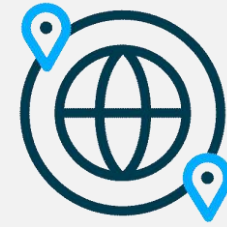
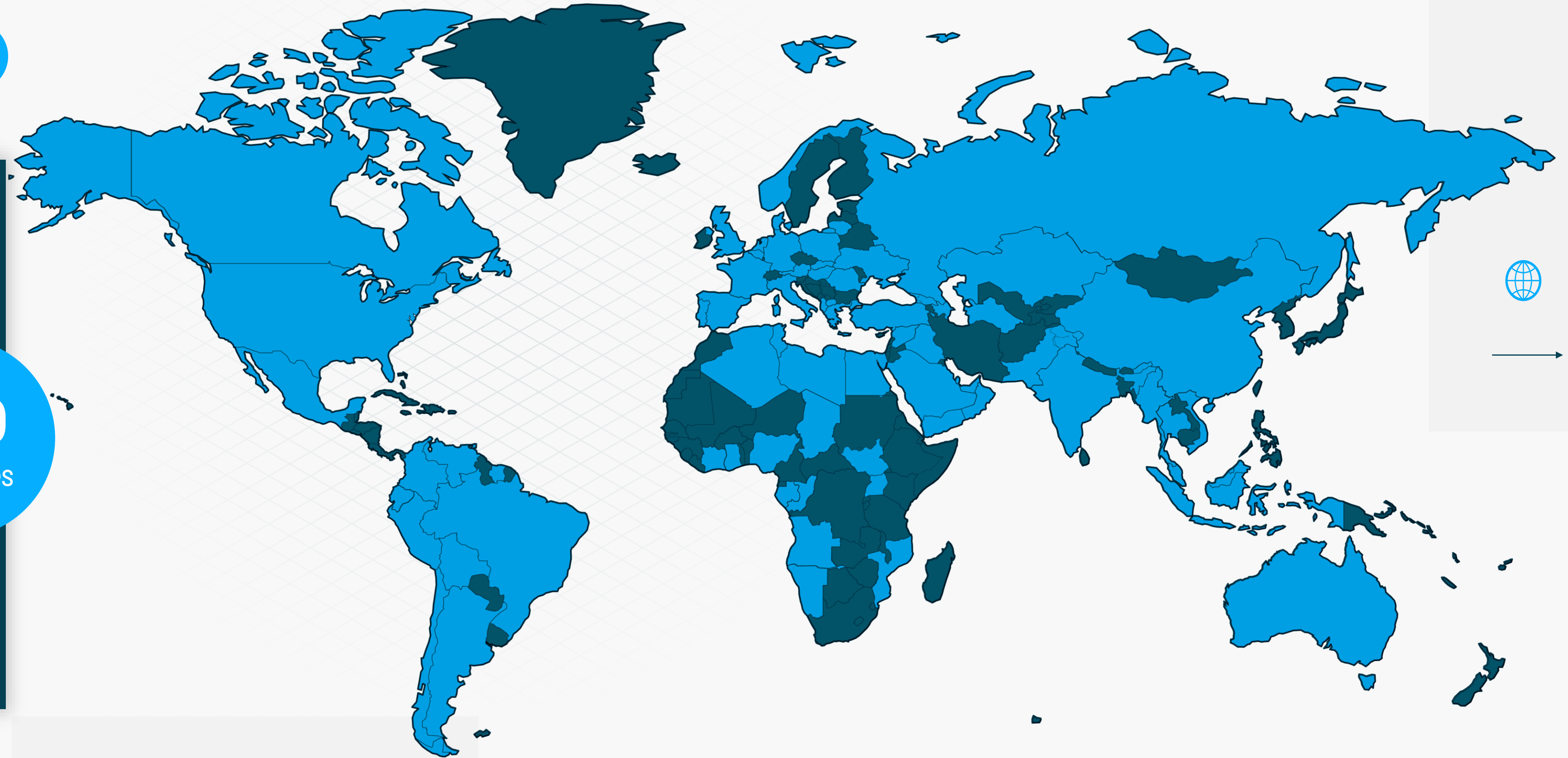
OGMP 2.0 Membership

What is OGMP 2.0 ?

Global coverage and scope

- Upstream, midstream and downstream segments
- Public, private and national oil companies

over
150
companies

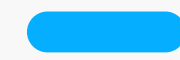


Non-company Members





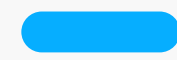
OGMP 2.0 members companies represent



over

42%

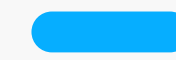
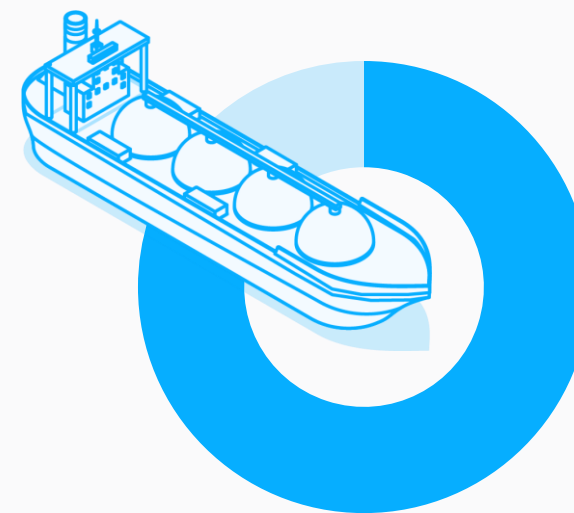
of the global oil
and gas production



over

80%

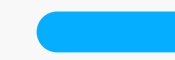
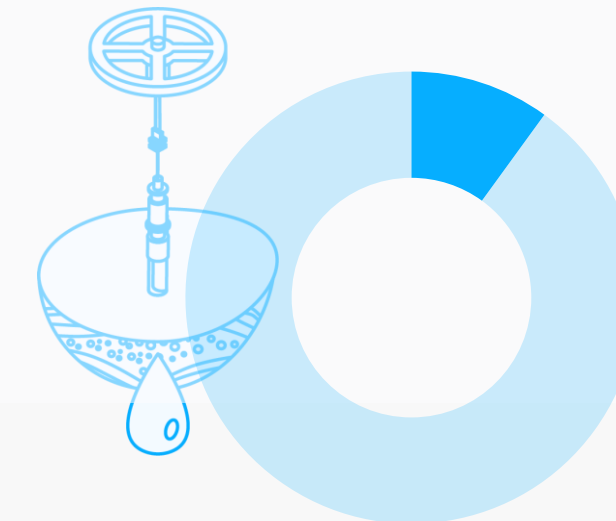
of LNG flows



over

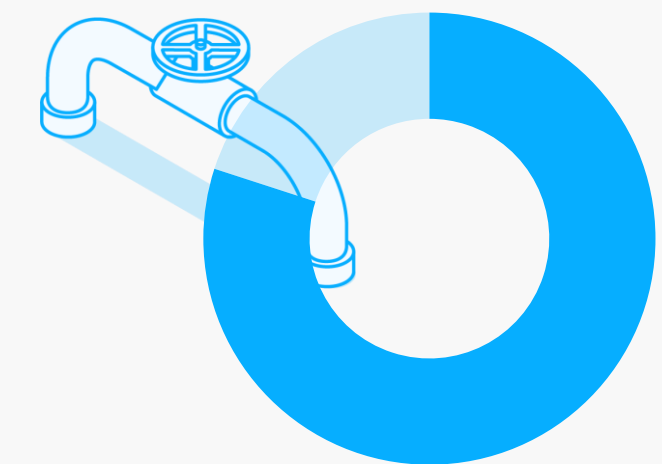
10%

of global storage
capacity



Vast majority

of European midstream and downstream
operators, dominant Chinese downstream
operator and major US transmission
operator



→ OGMP 2.0: Better emissions data for methane mitigation in the oil and gas sector

Comprehensive reporting framework

- Focus on direct measurements, to help companies identify and mitigate largest emissions sources
- Covering all material sources from both operated & non-operated assets across all segments of the value chain

Community of practice

- Platform for peer learning and experience sharing between industry's experts

Increasingly recognised as a global MRV standard

- OGMP 2.0 as “the best existing vehicle for improving measurement, reporting and verification capability in the energy sector” (EU Methane Strategy, Oct 2020)
- OGMP 2.0 serves as basis for the EU Methane Regulation (May 2024)
- Other governments around the world are looking at OGMP 2.0 as the basis for methane policies and regulations.





OGMP 2.0 Reporting Levels

Levels

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4	LEVEL 5
<p>Venture/Asset Reporting</p> <ul style="list-style-type: none"> • Single, consolidated emissions number • Only applicable where company has very limited information 	<p>Emissions Category</p> <ul style="list-style-type: none"> • Emissions reported based on IOGP and Marcogaz emissions categories • Based on generic emissions factors 	<p>Generic Emission Source Level</p> <ul style="list-style-type: none"> • Emissions reported by detailed source type • Based on generic emissions factors 	<p>Specific Emission Source Level</p> <ul style="list-style-type: none"> • Emissions reported by detailed source type using specific emissions and activity factors • Based on direct measurement or other methodologies 	<p>Level 4 + Site Level Measurement Reconciliation</p> <ul style="list-style-type: none"> • Level 5: Integrating bottom-up source-level reporting (L4) with independent site-level measurements. • Site-level measurements: direct measurement technologies at a site or facility level on a representative sample of facilities

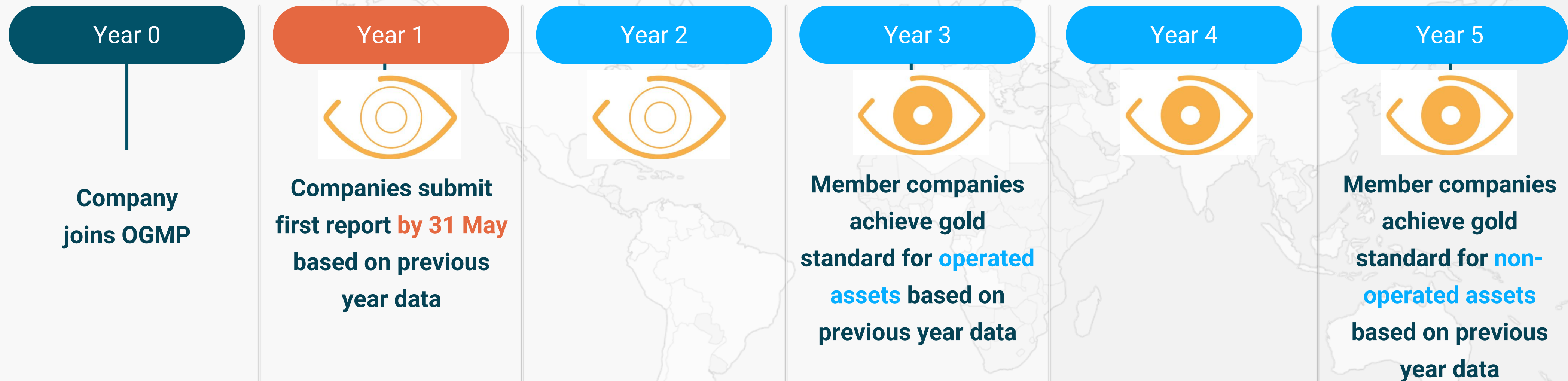


GOLD STANDARD REPORTING

Reporting all material assets at Level 4 and Level 5 within 3 years for operated assets and 5 years for non-operated assets



OGMP 2.0 Reporting Timeline



Companies may achieve **Gold Standard Pathway** prior to years 3 and 5 via:

- Submission of OGMP 2.0-compliant Level 1 (or higher) report for all in-scope assets
- Submission of a granular implementation plan per asset to get to Level 4/5 for all in-scope assets
- Establishing a methane reduction target



OGMP 2.0 Requirements and Data Disclosure

OGMP 2.0 requirements

- Define & disclose a **5 years methane reduction target**
- Submit **implementation plan** on pathway to **Gold Standard** (guidance available on OGMP website)
- **Report annually** on methane emissions from **operated & non-operated assets**

Publicly reported data

- Declared methane **reduction targets** of companies
- Company total emissions (**aggregated** by core source and by level (1-5) & distinct operated and non-operated ventures) + **progress towards targets**
- Members can review company fact sheet before publication
- **Confidential asset level data will only be publicly disclosed on a voluntary basis**

OGMP 2.0-WIDE FACTSHEET

The charts on the left show total methane emissions reported by OGMP2.0 member companies in 2024 based on 2023 data across all segments and companies. It depicts aggregate share of emissions by reporting level and operatorship as well as total emissions in million tonnes. The dotted pattern indicates that the data reported by companies has missing information (at least one applicable emission source not reported) for those assets.

In these initiative-wide graphs, emissions and reporting levels represent the emissions on a 100% basis for all reported assets. In the individual company factsheets, emissions for non-operated assets are weighed by equity (share as a percentage of the total) that each OGMP2.0 company disclosed for each asset, and the absolute numeric value of emissions in thousand tonnes is shown only for operated assets (on a 100% basis).

For each individual OGMP2.0-member company factsheet:

- For operated assets, graph shows emissions on a 100% basis).
- For non-operated assets, graph shows:
 - emissions, weighted by equity, directly reported by the company, and
 - emissions, weighted by equity, reported by other OGMP2.0 members where the company in question has ownership (if any)
 - total emissions weighted by equity from these non-operated assets will be disclosed in the future.

Additionally, as this is the first report with companies reporting in year 3 (the timeline to achieve Gold Standard Reporting for operated assets is 3 years), two icons were created to differentiate between Gold Standard Pathway and Gold Standard Reporting. If there is no icon under the current reporting year (highlighted in bold) or prior years, this means that the company did not achieve Gold Standard Pathway or Reporting in that year.

Companies may achieve Gold Standard Pathway from their first year of reporting if they establish a methane reduction target, submit an implementation plan and an annual report at asset level. Companies in year 3 of reporting are only eligible for Gold Standard Reporting.

This year, IMEO granted Gold Standard reporting to companies that attempted Level 5, even if those assets were not ultimately recognized at Level 5, provided the company investigated the potential reasons, shared the learnings and submitted a plan to improve. Such assets were recognized at Level 4.

2025 TARGET

DATA QUALITY

2023 METHANE EMISSIONS ESTIMATES (Mt)

1.3

0.7

OPERATED*

NON-OPERATED*

LEVELS

1 2 3 4 5

NO DATA POOR DATA EXCELLENT

*dotted pattern = incomplete data

2024 Gold Standard Pathway

2024 Gold Standard Reporting

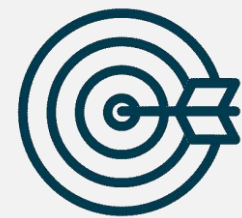
INDEX

SEGMENT

DATA QUALITY = Reporting levels 1 to 5, where increasing level corresponds to increased use of direct measurements



Company Performance Targets



Targets :

Individual performance targets for each company – to be reported on and ratcheted up with time

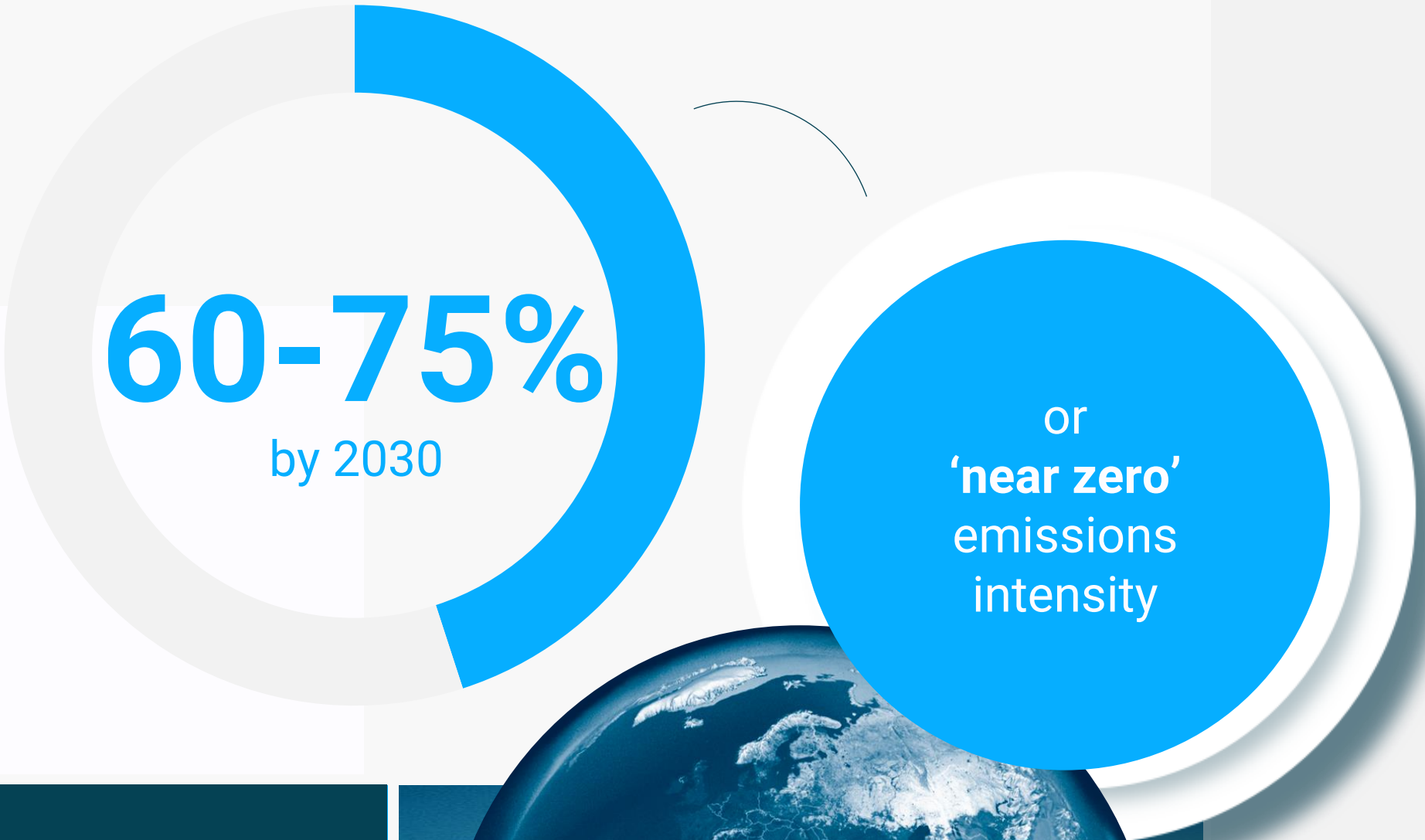
Either intensity or absolute target



→
UNEP Recommended Targets for industry as a whole:

Targets for non-operated assets are desirable

Company chooses its own target!





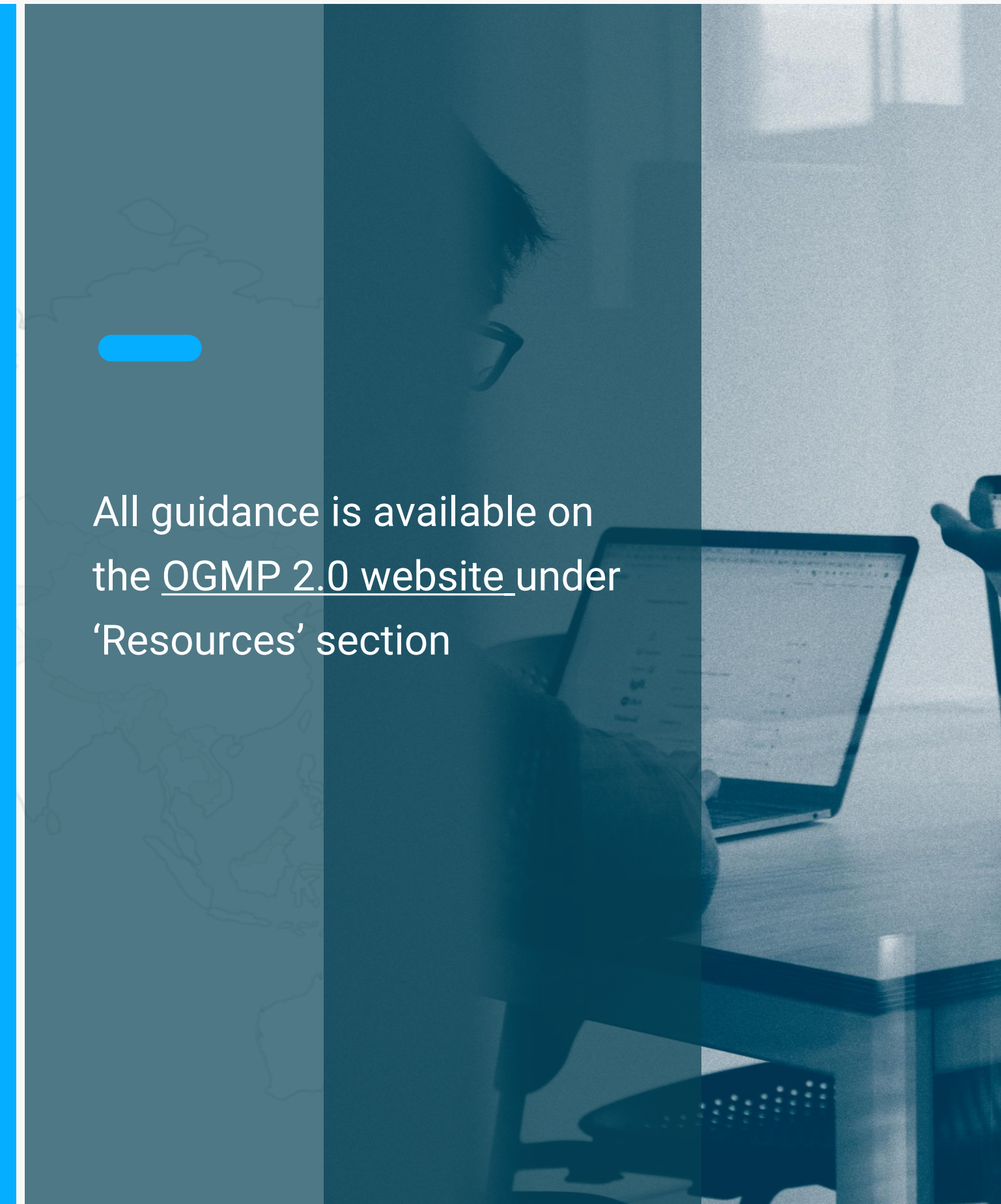
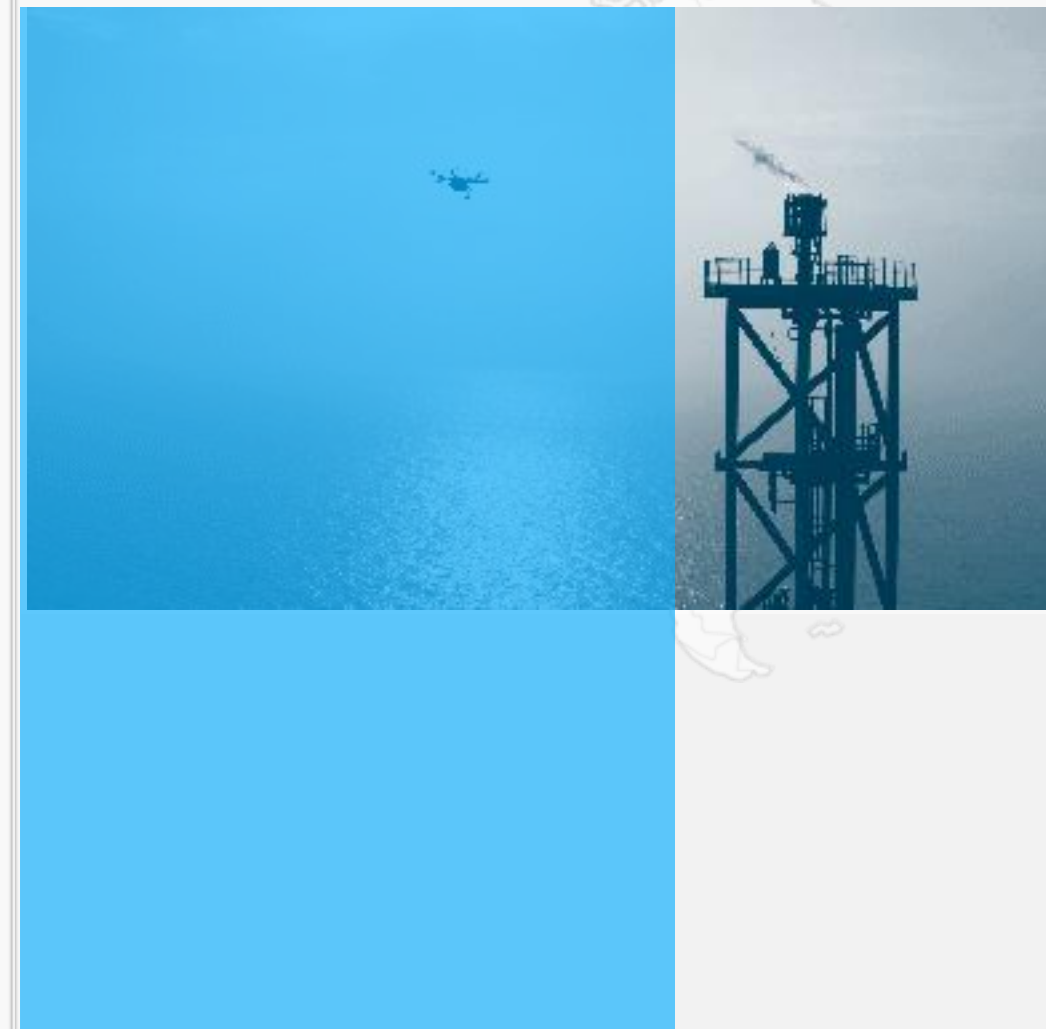
OGMP 2.0 Guidance

Guidance documents and reporting templates developed by Task Forces, integrating inputs from all companies through mirror groups

Approved by Steering Group by consensus after 2 week no-objection period

All guidance is **principles-based** rather than rules-based and relies on operators' judgement

All guidance is available on the [OGMP 2.0 website](#) under 'Resources' section





OGMP 2.0 Guidance

Technical Guidance

Documents on how to meet reporting requirements for most common material sources



Natural gas driven pneumatic controllers, pumps and measurement devices	Glycol dehydrators	Gas well hydraulic fracture completion venting/flaring	Incidents, third party damages and energy stops
Fugitive component and equipment leaks	Un-stabilized liquid storage tanks	Flare efficiency	Level 1 and 2 reporting
Centrifugal compressor shaft seals (wet and dry seals)	Gas well liquids unloading	Incomplete combustion	Leaks & Permeation from Underground Pipes
Reciprocating compressors	Oil well casinghead venting/flaring	Purging and venting, starts and stops and other process and maintenance vents	General TGD
LNG Liquefaction	LNG Regasification	LNG Shipping	Well completion, drilling, operations



OGMP 2.0 Guidance



2

Uncertainty & Reconciliation Guidance

The U&R guidance offers considerations for operators to approach **L4 inventory** and **L5 estimate development**, including reconciliation, but is not prescriptive.

Site-level measurements complement - rather than replace - source-level estimates.

Reconciliation = process of comparing source-level (Level 4) inventories with independent site-level measurements to produce Level 5 asset emissions estimates.

The process of reconciliation helps improve accuracy, thoroughness and confidence in reported emissions.

Reporting Templates & Associated Guidance

All guidance is available on the [OGMP 2.0 website](#) under 'Resources' section





4 Other tools available

Publicly available and free technical references developed by third parties include:

- [Mist by Carbon Limits](#) – methane inventory tool
- [Overview of methane detection and quantification technologies for offshore applications](#), 2024 update of a 2020 Carbon Limits report
- [OGCI IOGP Ipieca Recommended Practices for CH4 emissions detection and quantification - upstream](#), 2023
- OGCI, OGCI & Ipieca [Online Technology Filtering Tool](#)
- [EEMDL Technology selection tool: Tools and Resources](#) – EEMDL (utexas.edu)
- [Methane Reduction Management Best Practice Guides](#) | MGP (methaneguidingprinciples.org)
- GIE, IOGP and Marcogaz [Guidelines for Methane Emissions Target Setting](#)

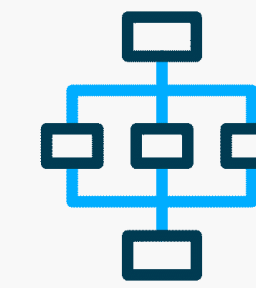


OGMP 2.0 Governance Structure



Steering Group

- Formal governing body of OGMP 2.0
- All member companies + non-company members (incl. EC, EDF, CATF, UNEP)
- Meets at least 2/year to discuss high-level issues & make decisions by consensus (e.g. approve technical guidance)

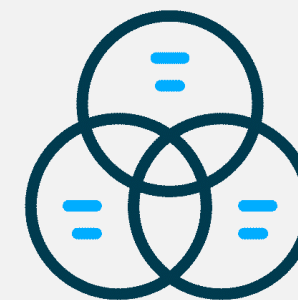


2 Mirror Groups

- All companies represented to engage at technical level
- (1) Upstream and (2) Mid & downstream segment
- Meet bi-weekly/monthly to provide feedback on all technical deliverables to TFs
- Companies only – UNEP not involved

Technical Task Forces

1. Technical Guidance Documents Task Force
2. Reporting Task Force
3. Uncertainty and Reconciliation Task Force (completed)
4. NOJV Engagement Task Force
5. Implementation Task Force



→ OGMP 2.0 Meets companies where they are on their methane journey

Recognition that measurement methodologies & technologies still emergent and experience continuous improvements > **flexible approach.**

Phased Approach: different timeline to reach Gold Standard (GS) for operated (3 years) and non-operated joint ventures (5 years) > recognising need to phase measurement approaches in operated assets + possible difficulties in getting NOJVs data.

Companies **do not lose GS** if they do not manage to receive NOJVs data, as long as they **demonstrate reasonable efforts** to obtain it.

Companies not reaching GS within timeline **do not lose OGMP 2.0 membership.**

Companies encouraged to focus efforts on **most common material sources of emissions** (as reflected in TGDs & materiality rule).



Benefits of joining the OGMP 2.0



Effective Mitigation & Credibility & Access to Markets and Funding

- More accurate data enables **effective mitigation**: thanks to OGMP 2.0, companies have a better understanding of their emissions and can target mitigation efforts to the largest sources.
- **Support Global & National Climate Efforts** under Paris Agreement & Global Methane Pledge.
- Provide **confidence to regulators, investors & general public** that members manage emissions responsibly & progress towards announced targets.
- **Market access**: Future border adjustment taxes will favour low methane gas that should be demonstrated through OGMP 2.0 Gold Standard
- **Funding Access**: OGMP 2.0 membership required to access funding from **World Bank's Global Flaring and Methane Reduction Partnership (GFMR)**
- Representing **industry voice in IMEO's advisory council**



Knowledge & Experience Sharing

- **Access to the OGMP 2.0 community of practice**: knowledge, experience & best practice sharing platform through annual implementation conferences & quarterly technical workshops
- **Privileged access to MARS**: Be notified at the very beginning of the formal notification process to allow for swift mitigation on the ground
- **Teaming up on complex topics** (e.g., U&R Guidance, pilots on L4/L5 measurement technologies & approaches)
- Participating in **writing OGMP 2.0 rules** which might ultimately become industry guidance



OGMP 2.0 Community of Practice

Mentoring Programme

- Launched in February 2024
- **Matching new members with more experienced ones**
- **Over 30 participating companies**
- **Flexibility** for companies to define terms of their interactions

Asset Managers Network

- **Asset Managers Engagement workstream** launched in 2024
- **Aim:** Directly engage with asset managers who have agency to take concrete and rapid action to reduce methane emissions from the facilities on the ground.
- **Building contacts and integrating them into wider OGMP 2.0 Community of Practice:** e.g., experience sharing workshops and other relevant content.

Experience Sharing Workshops

Examples of past topics:

- L4 Measurement Technologies & Methodologies
- Session for Distribution System Operators
- Site-Level Measurements
- Continuous Monitoring
- **Others in the planning!**

Third in-person OGMP 2.0 Annual Implementation Conference

Getting to Gold

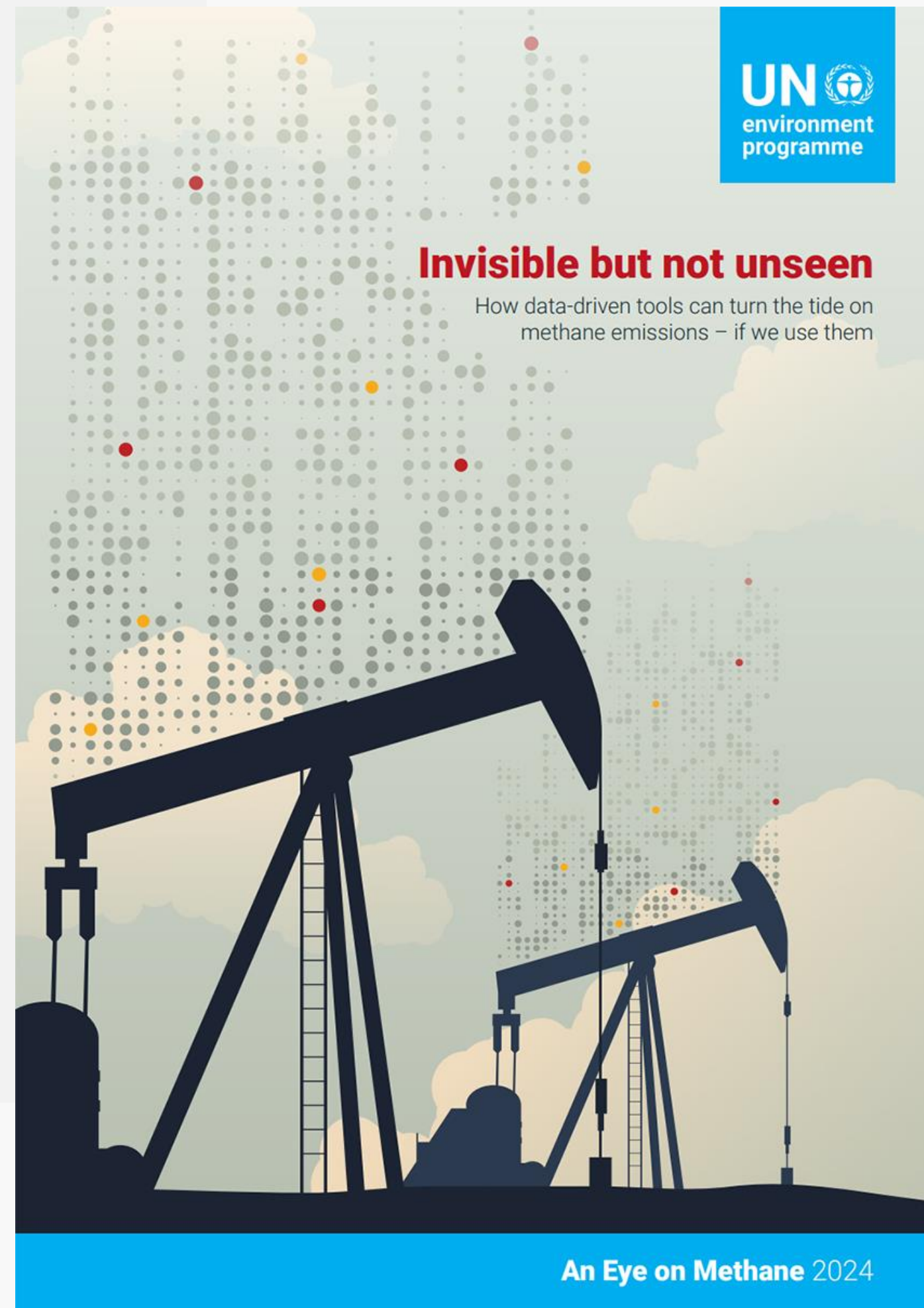
Rio de Janeiro, 4-6 February



- Showcasing **Community of Practice** with over 130 company and non-company participants (scientists, NGOs, EU, Japan) sharing lessons learned and best practices.
- Half-day orientation for new members
- Update on global methane emissions landscape, scientific and regulatory insights
- Implementation focused sessions & discussion on emerging priorities



2024 IMEO Report



IMEO Eye on Methane: *Invisible but not unseen*

- Takes stock of IMEO's progress in harnessing a data revolution that can accelerate methane mitigation.
- Includes:
 - Reporting status of all member companies
 - Main emission sources & average reporting levels
 - Success stories of OGMP 2.0 Implementation
 - [Individual company fact sheets](#)

IMEO Eye of Methane data platform

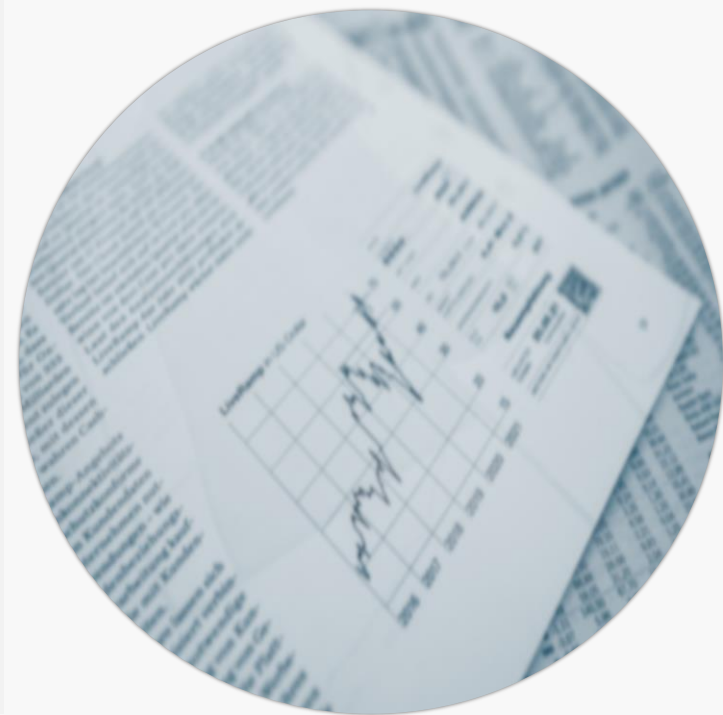
providing transparent and user-friendly visualization of all IMEO data sources for policymakers, media, academia, NGOs, and the public to explore measured methane emissions.



How to join the OGMP 2.0?



No fee associated with joining



Companies sign a **MoU with UNEP** to formally express adherence to OGMP 2.0 Reporting Framework (annexed to MoU)

Once company related information is completed in the MoU, it is signed by UNEP first (~1 month) and then shared for company's countersignature.

Once MoU is countersigned, the company officially becomes OGMP 2.0 member – it is represented in the Steering Group and introduced to mirror groups.

After signing the MoU, UNEP organizes an **introductory call** with the new member to discuss reporting requirements & answer technical questions.





Giulia Ferrini
Programme Manager
giulia.Ferrini@un.org



Tania Meixus Fernandez
Senior Advisor
tania.meixusfernandez@un.org



Jen Snyder
Senior Data Analyst
Jennifer.Snyder@un.org



Debbie Walker
Senior Advisor
Debbie.walker@un.org



Monika Oczkowska
Partnership Coordinator
monika.oczowska@un.org



Vasile-Cosmin Trif
Technical Expert
Vasile.trif@un.org



Ricardo Esparza Gamez
Data Analyst
ricardo.esparzagamez@un.org



Mrinali Modi
Data Analyst
Mrinali.modi@un.org



Gabriella Lorange
Jr. Partnership Coordinator
Gabriella.Lorange@un.org



Ogo Ikegwuonu
Technical Expert
ogochukwu.ikegwuonu@un.org



Seungyeon Ko
Data Analyst
Seungyeon.ko@un.org



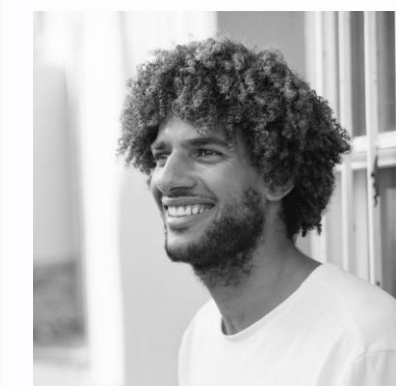
Colette Schissel
Data Analyst
Colette.Schissel@un.org



Georgie Passalaris
Asset Manager Engagement
Advisor
Georgie.Passalaris@un.org



Lisa Solomchuk
Senior Advisor
Lisa.solomchuk@un.org



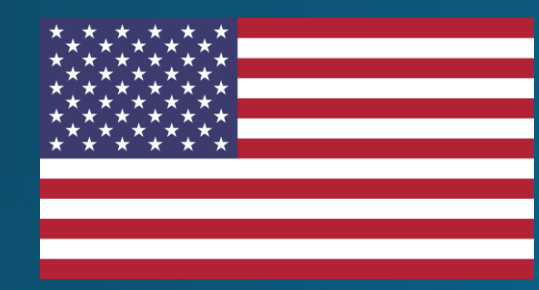
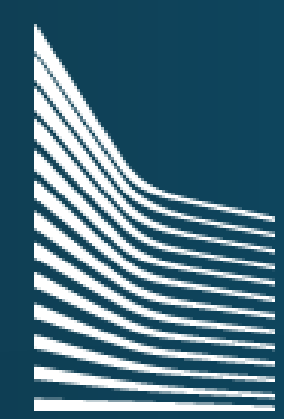
Raphael Hanke
Data Analyst
Raphael.hanke@un.org


Meet the team!



Thank you !

UNEP's IMEO gratefully acknowledges its donors:



Canada

