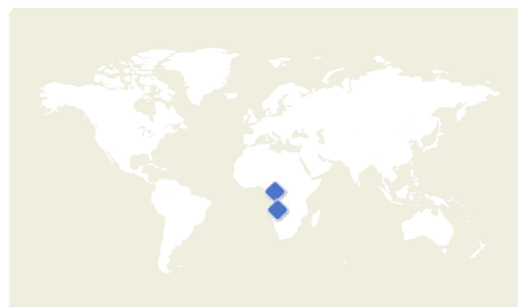


MEASURING OFFSHORE OIL AND GAS EMISSIONS IN ANGOLA & GABON



Quantifying emissions from 30 offshore facilities using airborne techniques as part of IMEO's METHANE-To-Go Africa (MTGA) scientific campaign.



DONOR:
Oil and Gas Climate
Initiative (OGCI)



**BENEFITTING COUNTRIES
OR REGIONS:**
Angola and Gabon



SECTOR:
Oil & Gas



Subsector, if applicable:
Offshore

STATUS: Submitted to Journal

TIMELINE: Measurements 2022



**IMEO SCIENCE
OBJECTIVE:**

→ Advance reconciliation and data
integration approaches for multi-scale
emissions data.



KEY FINDINGS

The MTGA study will provide a comprehensive dataset on methane emissions from the offshore oil and gas industry off the coast of Angola, and significantly enhance the understanding of emission sources and patterns in the region.

RATIONALE

The region is home to substantial oil and gas production by both national and international oil companies and has been identified as a flaring hotspot. Quantification of methane emissions from these offshore facilities is sparse.



RELATED PUBLICATIONS

- Manuscript (Fiehn *et al.*) to be submitted to *Atmospheric Chemistry and Physics* shortly.

Additional papers are in progress.



SIGNIFICANCE FOR DECISIONMAKERS

For Industry

Comprehensive measurement data on emission sources and patterns in the region will provide operators an understanding of the magnitude and sources of methane emissions for offshore assets, such as from flaring or fugitive emissions.



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STUDY APPROACH/ACTIVITIES

Emissions from 30 Angolan offshore oil and gas facilities were quantified using airborne techniques in September 2022. Emission rate estimates will be compared against global bottom-up inventories, operator-reported estimates, and data from UNEP's IMEO, including its Methane Alert and Response System. The study was made possible through close collaboration with Agencia Nacional de Petróleo e Gas (ANPG), Ministério dos Recursos Minerais, Petróleo e Gás Angola (MIREMPET), and local oil and gas operators.



CATALYZING ACTION

In October 2022, the German Aerospace Center (DLR) presented preliminary findings to local partners in Luanda, Angola, providing operators with feedback on their individual emissions. These discussions have catalyzed interest in potential follow-up campaigns in the region, and the Angolan national oil company, ANPG, has expressed interest in implementing robust methane emission reporting schemes.

OTHER SUPPORTERS/STAKEHOLDERS

Principal Investigator: **German Aerospace Center (DLR), Germany**

Revision History: **18 August 2025**

The UN Environment Programme's International Methane Emissions Observatory (IMEO) exists to provide open, reliable, and actionable data to the individuals with the agency to reduce methane emissions. IMEO does this by integrating and reconciling data across sources, including its global methane science studies. IMEO supports measurement and research studies around the world to close the knowledge gap on methane emissions and provide policy-relevant insights to decisionmakers.