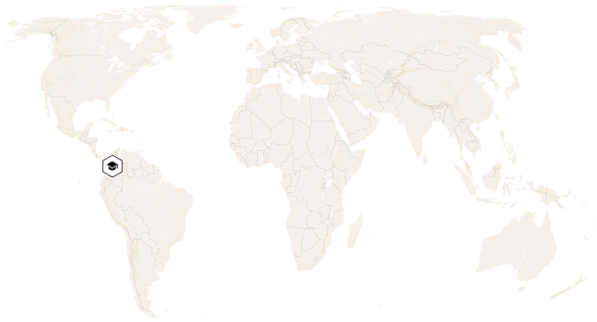
BASELINE SCOPING STUDY OF EMISSIONS IN COLOMBIA

Scoping a multi-sector measurement study of anthropogenic methane emission sources in Colombia.



DONOR:
Global Methane Hub and Bezos Earth Fund

BENEFITTING COUNTRIES OR REGIONS:
Colombia

SECTOR:
Multisector

Subsector, if applicable:
—

STATUS: **Completed**

TIMELINE: **Scoping started 2024 and finalized 2025**

IMEO SCIENCE OBJECTIVE:

→ **Advance science studies in support of countries targeting methane mitigation.**



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KEY FINDINGS

This effort designed a suitable measurement-based strategy for quantification of prioritized anthropogenic methane emissions in Colombia. The next step, a full baseline study, will estimate total methane emissions nationally and across sectors. This can inform national greenhouse gas inventories, reveal areas to prioritize emission reductions and help discover the sources of discrepancies between emissions reporting and measurements.

RATIONALE

Colombia, like many countries, faces challenges setting effective methane reduction targets and tracking progress due to a lack of measurement-based emissions data across sectors. The country has already demonstrated significant leadership on methane through regulatory efforts, but better measurement data is needed to ensure mitigation efforts are targeted and effective.

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For more information, please contact unep-methanescience@un.org

RELATED PUBLICATIONS

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SIGNIFICANCE FOR DECISIONMAKERS

For Policymakers
The scoping study laid the groundwork for a full baseline study of Colombia. The baseline study will produce data to improve Colombia's national greenhouse gas inventory by reducing uncertainty and improving the country's understanding of opportunities to reduce methane emissions.

STUDY APPROACH/ACTIVITIES

The scoping study began with a review of existing information on methane emissions in Colombia, identifying underestimated and non-estimated emission sources and improvement opportunities. Second, the researchers identified the technologies best suited for measuring methane sources in Colombia. Third, a mapping of the research community was conducted, including a national workshop aimed at developing the measurement strategy and fostering collaboration in Colombia. Fourth, a measurement campaign was designed including prioritization of emission sources.



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CATALYZING ACTION

IMEO is gathering key stakeholders from industry, policy and science communities to assess opportunities to use data from the study to drive deep reductions in methane emissions. The team approached several government and industry stakeholders to identify their knowledge and data gaps and their capacity to support the project, as well as their interest in the study and the implementation of its results in the future. In October 2024, a national workshop brought together academic, government and industry stakeholders.

OTHER SUPPORTERS/STAKEHOLDERS

Principal Investigator: **Universidad Nacional de Colombia, Colombia**



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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.

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