



Global
Methane
Hub


Annual Impact Report

— 2023





— Table of Contents

An aerial photograph of a dense, vibrant green forest. A dark, winding river flows through the trees, creating a natural path. The forest is thick and covers most of the landscape, with a small patch of lighter green grass visible on the left side. A white, rounded rectangular box is superimposed over the center of the image, containing text.

—

Our work starts with
telling the world a **holistic
story** about what causes
climate change and how
to stop it.

Letters from Leadership





— Introduction

Letter from the CEO

Pulling the emergency brake on climate change is going to take a **network of partners that is massive, diverse, and tightly coordinated, all at the same time.**

That's why we created the Global Methane Hub (GMH) almost two years ago: to help organize the extremely complex worldwide project of mitigating methane, one of the most dangerous greenhouse gases there is. **Everyone in the GMH network shares the same goal:**



reduce methane emissions by

35% by 2030



Missed it?

Check out Marcelo's 2023 TED Talk:
[Meet Methane, the Invisible Climate Villain](#)

But our aim isn't *just* to reduce global warming. **It's also to make life safer, healthier, and more prosperous for billions of people, especially in the Global South.** Methane doesn't just increase the global temperature. It also decreases the quality of life in communities around the world by causing, for example, deadly explosions and fires, foul-smelling air pollution, as well as cardiovascular and respiratory diseases. So our work is about climate justice now and a sustainable climate going forward.

When I say "we" created the Global Methane Hub, I mean it: **GMH exists because of you.** Over the years, your investments have guided our vision, built our capacity and made our impact possible. In this report, you'll learn about the results of our work. Our program directors and regional leads will share what we've done and what we've learned in 2023, and map our plans to carry those lessons into 2024 and beyond.

This report will give you a snapshot of our growing footprint and vast coalition of partners helping us shape leading methane mitigation strategies. **On every continent, and in every sector and position: the people we work with are the core of our collective success.**

Together, we're knocking down silos, transcending boundaries, and accelerating action—and **that's exactly what the world needs if we are going to stay on track to 1.5C.**



Marcelo Mena
CEO, Global Methane Hub

Letter from the Chair of the Board

Over these past few years, the Global Methane Hub has grown—in size, in scope, and in impact. We continue to connect funders to grantees, but we also connect governments, businesses, and civil society organizations to one another and to the resources they need to implement better methane policy, mobilize more financing, accelerate cutting-edge technologies, incubate new approaches, and deliver change—quickly, equitably, and at scale.

As a true hub: we bridge sectors, strategies, and geographies to multiply the impact of every dollar we invest.

More than 150 countries have signed the Global Methane Pledge to reduce methane emissions by at least 30% (from 2020 levels) by 2030. This is why we often hear we are living in the “methane moment.”



+150

countries have signed the
Global Methane Pledge

At COP28 in Dubai, **192 countries agreed to reduce methane and non-CO₂ pollutants by 2030 substantially**. As a result of our efforts, people are paying attention, and governments have committed to act.

We already have many of the tools and technologies we need; now we need the resources and investments to deploy them at scale. I'll be blunt: it will be expensive. But together with our philanthropic and cross-sector partners, we *can* meet, and surpass, that goal.

Thank you for joining us as we push to turn the Global Methane Pledge from words to action, and thank you for your ongoing commitment to scaling our impact worldwide. **Every node in our network makes all the others stronger. Every effort we support makes the others more effective.**

Together, we have made the methane moment a methane *movement*.



Marisa de Belloy

Chair of the Board, Global Methane Hub
President, High Tide Foundation

— Our Vision

A world where a dramatic reduction of methane emissions by 2030, coupled with rapidly decreasing carbon dioxide and other greenhouse gas emissions, **keeps global warming under 1.5° Celsius**, averting climate catastrophe and bringing social, environmental, health, and economic benefits to communities, cities, and countries.

— Our Mission

Accelerate action by governments, civil society, researchers, investors, and the private sector to develop and implement strategies that will catalyze rapid systemic reductions in methane emissions in the energy, agriculture, and waste sectors.

— Our Goal

Deliver **\$1 billion in philanthropic funding by the end of the decade** across sectors around the world and ensure global methane emissions are **reduced by 35% by 2030** and **50% by 2050**, on a baseline of 2010 levels.

Accomplishments and Lessons Learned

Accomplishments and Lessons Learned

Methane will make or break our chances to avoid the worst impacts of climate change.

Even if we get carbon dioxide emissions to zero tomorrow, average temperatures won't start to decline for decades. But the faster we cut methane emissions, the sooner we will produce results, keeping us from reaching irreversible climate tipping points while we push to get to zero across the board.

Most of our investments go to countries, communities, and centers of innovation across the Global South. That's because methane emissions are closely tied to economic and energy development—they come from mines and megacity landfills, farmers' fields and refineries—and researchers estimate that low and middle-income countries (LMICs) will account for **83% of methane emissions worldwide by 2050**.¹ GMH's aim is to enable that prosperity *without* the harmful emissions that too often accompany it.


Reducing methane emissions is a complicated problem, and there's no one-size-fits-all solution. **GMH is expanding and leveraging all the tools the world has at its disposal to make change.**

¹ Shindell (forthcoming)

83%

of methane emissions will come from low and medium income countries (LMICs) worldwide by 2050





Last year, GMH worked in the three sectors responsible for 95% of anthropogenic methane emissions: agriculture, energy, and waste. **Within and across each of these sectors, we made grants and maximized the impact of your philanthropic investments by engaging stakeholders who could help us pull on five key levers for methane mitigation:**

In the pages that follow, our program directors and regional leads will tell you about how those efforts led to **progress in 2023** and **what's next in 2024**.

Lever 1: Finance and Investment

“At GMH, we work to make sure that existing funding is allocated more efficiently and that new funding aligns behind major methane mitigation efforts for larger climate and developmental impact.”



Mohamed Sultan
Regional Lead, Africa

Finance and Investment

Brokering Change Beyond the COP Stage

In just a few years, the world has recognized that methane mitigation must be a central part of our efforts to avert the worst effects of global warming. This year alone, **we were able to mobilize nearly \$1 billion in international finance towards tackling methane.** And we are just starting.

For a third year in a row, methane mitigation took center stage at the UN's Climate Change Conference. COP28 in Dubai showcased the progress the world has made so far: **the Global Methane Pledge secured more than \$1 billion in grant funding**, and Turkmenistan, Kazakhstan, Kenya, Romania, and Angola brought its **total number of participants to 155.**

This is great news, but we can do more with more.

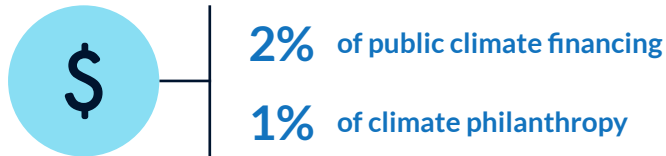
\$1 billion

in funding secured in support of the Global Methane Pledge at COP28

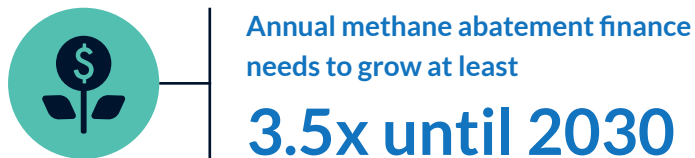
At COP28 in Dubai, leading climate philanthropies announced an investment of \$450 million in 2023 and over the next three years to help catalyze a faster phase-down of non-CO₂ super climate pollutants. Christie Ulman, president of Sequoia Climate Foundation, is pictured here making the announcement.



Methane emissions account for half of current warming, and methane abatement is one of the most effective climate investments there is—**but methane mitigation financing is far below the \$48 billion researchers estimate we'll need each year to reach our 2030 goal.** Though funding for methane has improved since 2020, it still receives just



Furthermore, the funding that exists isn't getting where it needs to go quickly enough. For instance, **the energy sector is responsible for 36% of methane emissions**, but there is not yet any specific climate financing tracked to mitigate them according to a [GMH-supported report by the Climate Policy Initiative](#).



The study also found that while Latin America and South Asia are responsible for 26% of global methane emissions, **those regions only receive 1.8% and 1.3% of global methane finance**, respectively. With funders who are committed to supporting our work in high-priority sectors and regions, we can shrink that shortfall and move more resources toward methane. We estimate it will take about **\$1 billion in philanthropic funding to unlock the additional investments we'll need to reduce methane emissions by 35% in the next six years.**

How We Work

We channel resources to local civil society organizations and social enterprises to **enhance on-the-ground capacity and support solutions that are tailored to local contexts and communities.**

We deploy catalytic funding for building pre-feasibility studies, business models, and project preparation facilities that can help generate funding from multilateral development banks (MDBs), regional development banks, and the private sector.

We multiply the impact of methane mitigation efforts by building and strengthening regional and global cooperation and by sharing best practices to accelerate action and attract more funding to the Global South.



2023 Accomplishments

We worked with **multilateral funding agencies to leverage resources for methane mitigation worldwide.**

For instance, Environment Canada matched a **\$3.5 million GMH contribution to build a project preparation facility** that, in turn, helped mobilize \$350 million from the Inter-American Development Bank's ["Too Good To Waste" initiative](#) for solid waste methane management in Latin America and the Caribbean.

GMH also deployed:



\$3 million

to establish project preparation facilities in 15 countries that helped attract

\$500+ million

in methane mitigation finance for agricultural emissions projects from the International Fund for Agriculture Development

And we are working with the World Bank to **mitigate ten million tons of methane in 15 country programs**, which will mobilize up to **\$5.5 billion** in the coming years. While we do not currently fund the World Bank, GMH is closely partnering with their teams to help focus this funding on livestock methane emissions, rice production, and solid waste and wastewater treatment. The World Bank also secured pledges for



\$255 million

to tackle oil and gas emissions in a trust fund that GMH and its grantees helped design

The fund created the Global Flaring and Methane Reduction Partnership to help developing countries receive the technical and financial support needed to stop methane leaks.

Finally, GMH announced several major methane investments at COP28 in Dubai. You'll read more about these later in the report, but they include the [Enteric Fermentation Research and Development Accelerator](#), a **\$200 million initiative to tackle methane emissions in the agriculture sector**, and the Lowering Organic Waste (LOW)-Methane project, which aims to unlock some



\$10 billion

in public and private investment in the waste sector

with a vision to work with **40 subnational jurisdictions** to cut at least **one million tons/year of methane well before 2030.**

A large industrial facility, likely a refinery or chemical plant, is shown at sunset. The sky is a mix of orange, yellow, and blue. The facility features several tall distillation columns on the left, a complex network of pipes and walkways, and several large white storage tanks on the right. The scene is illuminated by the warm light of the setting sun and some artificial lights from the facility.

What's Next in Finance and Investment

We'll continue to identify and highlight win-win solutions that align with financial support and investment criteria to **bridge the methane finance gap**, especially in LMICs. We will also **serve as a coordination hub** with organizations that fund technical support, such as USAID, the UN's Climate and Clean Air Coalition (CCAC), the Global Methane Initiative (GMI), and the World Bank.

Lever 2: Data, Measurement, and Accountability

“GMH supports the development of tools, processes, and capacity for tracking and analyzing accurate, real-time data on methane emissions to inform policy, advocacy, and action on the ground.”



Carolina Urmeneta
Program Director, Waste and Circular Economy

What's Up With Waste?

Worldwide, methane emissions from waste—typically from organic matter decaying in large landfills—**continue to rise.**

In many cases, landfill operators lack the technical expertise, infrastructure, or financial resources they need to effectively manage these emissions. In others, the policy and regulatory frameworks that govern the facilities are insufficient: often they do not account for methane emissions at all. **We aim to close these gaps.**



18%

of methane emissions comes from the waste sector



How We Work

We identify key areas of overlap between methane mitigation and other urgent agendas, such as decarbonization, food security, and waste pollution.

This approach enables us and our partners to demonstrate that methane mitigation is essential not only for emissions reduction but also for improving health, creating jobs, increasing productivity, fostering economic growth, and promoting sustainable development.

We aim for community-centered policy design that builds on local knowledge, capacity, and concerns to drive support for ambitious methane-mitigation policy and investment.

We coordinate and collaborate with jurisdictions that aspire to lead by example. For example, our partners and grantees in Nigeria published a new playbook, “Mitigating Methane Emissions from Municipal Solid Waste,” that will serve as a guide for on-the-ground interventions.

[View the playbook](#)

“We will now begin engaging with stakeholders to formulate the action in organic waste diversion in support of increasing Nigeria’s NDC ambitions for methane reduction across all sectors.”



Michael Ivenso, Director of Energy, Transportation & Infrastructure, Nigeria Council on Climate Change, Nigeria Coordinator, Global Methane Pledge

2023 Accomplishments

At COP28, we launched **Lowering Organic Waste (LOW)-Methane**, a new initiative that aims to mobilize



\$10 billion

to enable 40 municipalities in as many countries to cut methane emissions from the waste sector by a million tons per year well before 2030²

The first set of LOW-M partners are Santo Domingo in the Dominican Republic, Santiago in Chile, Rio de Janeiro in Brazil, Lagos in Nigeria, and municipalities in Indonesia: all emerging economies committed to leadership through action. In fact, even before its official launch at COP28, the initiative helped persuade the Inter-American Development Bank to **fund a key project to close the Duquesa garbage dump in the Dominican Republic**, the largest open-air landfill in Latin America and the Caribbean and the fifth largest in the world.

² www.state.gov/lowering-organic-waste-methane-initiative-low-methane/

At the same time, our grantee partners RMI and the Clean Air Task Force launched the [Waste Methane Assessment Platform \(WasteMAP\)](#), an open-source online tool that gathers satellite heat map data on observed landfill methane emissions.

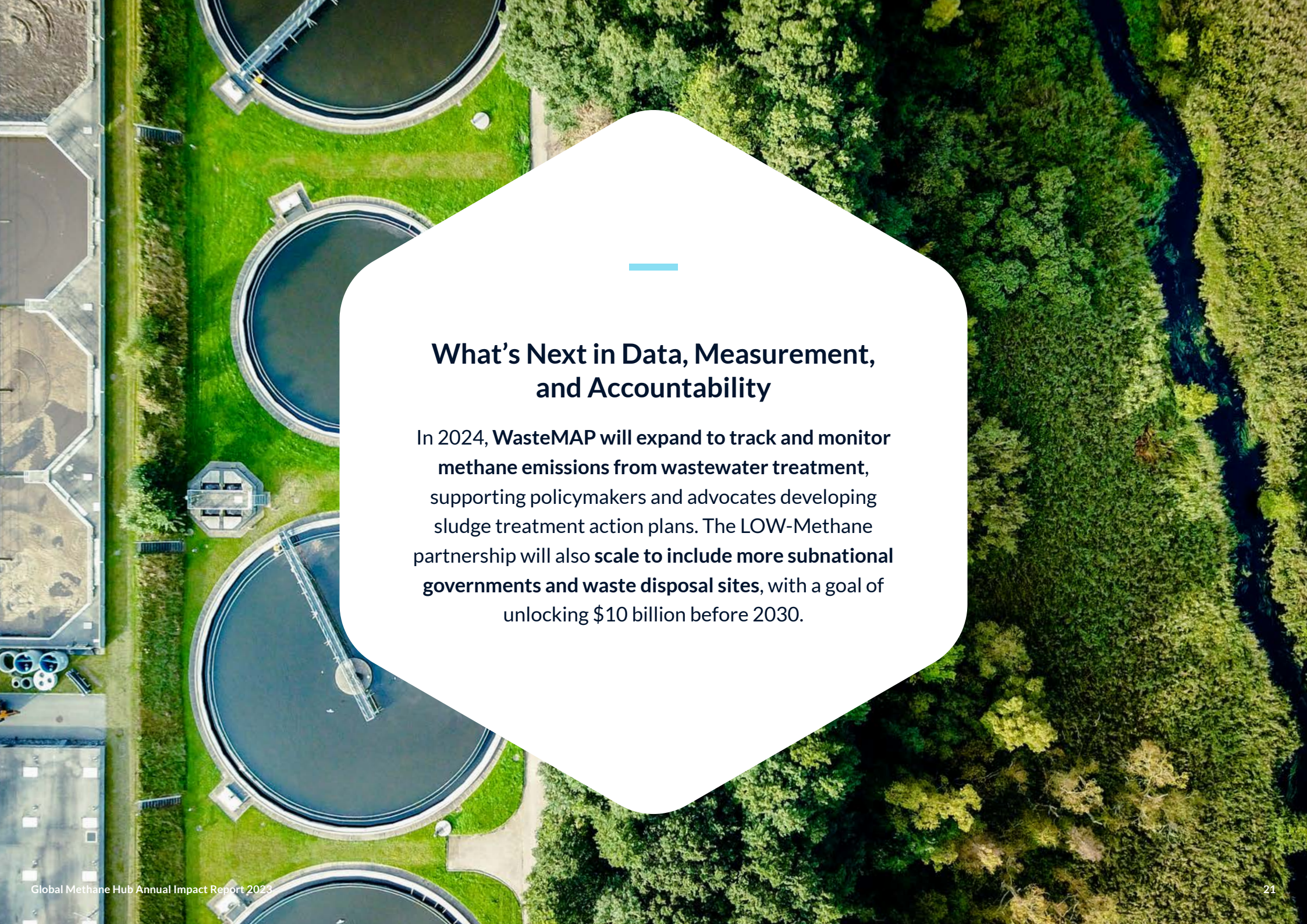


WasteMAP links governments and NGOs with the data they need to “see” invisible methane emissions from the waste sector so they can stop and prevent them. **This new digital platform is the first tool of its kind, and it will soon benefit more than**



10 countries

starting with India, Nigeria, Colombia, Ecuador, Mexico, and the U.S.



What's Next in Data, Measurement, and Accountability

In 2024, WasteMAP will expand to track and monitor methane emissions from wastewater treatment, supporting policymakers and advocates developing sludge treatment action plans. The LOW-Methane partnership will also scale to include more subnational governments and waste disposal sites, with a goal of unlocking \$10 billion before 2030.

Lever 3: Policy, Plans, and Regulation

“GMH works to ensure methane mitigation is part of robust global, regional, and country standards for emissions reduction.”



Sarah Ann Smith
Program Director, Energy

Increasing Accountability in Oil and Gas

Methane emissions from oil, gas, and coal remain high, even though we have the technology to cost-effectively prevent most of them.

This is partly because most new oil and gas methane emissions come from countries without comprehensive and consistent policies to limit them. But as policymakers, governments, and other stakeholders gain access to the tools and technologies that make methane more visible, they are better able to design solutions—and more committed to implementing them.

36%

of methane emissions
come from fossil fuel
extraction



How We Work

We scan the horizon to see what's next, like the upcoming wave of publicly available satellite data and the increasing interest in fee-based policies and gas import standards following the finalization of the Methane Emissions Reduction Program legislation in the U.S. and the methane import standards in the EU (both supported by greenhouse gas emissions (GHGs) investment).

We identify key barriers—such as insufficient financing for methane abatement in the energy sector, which stems in part from a lack of consensus around whether these investments constitute bad investment in fossil fuels or green lending—so we can address them.

We provide spaces for strategic partnership: sharing knowledge, highlighting lessons learned, and analyzing obstacles. Likewise, we continue to build consensus and cross-regional networks of influence with like-minded organizations that share our goals and priorities.

We prioritize efforts that advance the transition to clean energy while quickly reducing the harm methane emissions cause by exposing the health impacts of air pollution from the oil and gas industry and forcing it to internalize the cleanup costs; highlighting how methane emissions mean gas is not a clean “bridge fuel;” and using methane as a practical starting point with countries early in their energy transitions.

³ carbonbrief.org/china-briefing-16-november-sunnylands-statement-china-methane-plan-coal-capacity-payments

2023 Accomplishments

Countries around the world adopted methane policies.

Last November, the United States and China issued the “Sunnylands Statement on Enhancing Cooperation to Address the Climate Crisis,” a landmark document in which China agreed to develop emissions targets to reduce methane and other greenhouse gas emissions (GHGs) by 2035. About one-tenth of global anthropogenic methane emissions come from China,³ and the Sunnylands Statement is the most ambitious and comprehensive national methane mitigation plan ever adopted in the Global South.

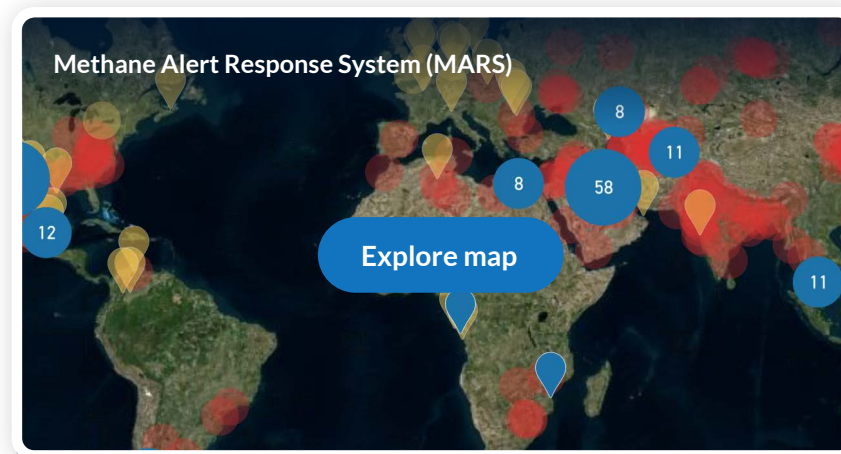
Visiting pilot of methane mitigation in coal in Shanxi region, which accounts for half of global methane emissions from coal.



The Sunnylands Statement is a great example of GMH’s unique multisectoral, multilateral, cross-regional methane strategy—and of the tangible progress we aim for. Together with our partners outside China (the Institute for Governance and Sustainable Development, the California China Climate Institute at the University of Berkeley, California, and the Lawrence Berkeley National Laboratory) we worked to enable China to adopt a comprehensive approach to super-pollutants. Our partners inside China, in particular Energy Foundation China, provided key research, analysis, and road maps for methane mitigation nationwide. They were also on the ground in California alongside the government representatives who ultimately backed commitments to methane-specific targets in China’s next NDCs.

We also helped develop Nigeria’s improved regulations limiting oil and gas methane emissions and flaring. Because of our grantees’ ongoing efforts, Ghana is getting closer to finalizing similar rules. In Colombia, we are supporting the country’s efforts to regulate oil and gas emissions, and in the United States, we continue to ensure that EPA regulations and precedent-setting methane fees are in force. Finally, last November, the EU announced its first methane regulations ever, requiring oil, gas, and coal producers (and those who export these products to the EU) to measure and report, and start to mitigate, their methane emissions.

Methane leaks from fossil-fuel operations and supply chains frequently go unnoticed and unrepaired, disproportionately affecting the people in frontline communities who are exposed to toxic compounds such as the carcinogen benzene. At COP27 in 2022, a coalition that includes GMH, the EU, the U.S. government, and the Bezos Earth Fund announced the launch of the [Methane Alert Response System \(MARS\)](#). MARS, a satellite tool administered by the



UN’s International Methane Emissions Observatory (IMEO), detects and measures major methane leaks from the energy sector and shares the data it gathers with regulators and polluters. At COP28, we announced the results from MARS’ first year at work:



Fifty-two oil and gas companies joined the Oil and Gas Decarbonization Charter [announced at COP28](#), which calls for net-zero methane emissions by 2050 and eliminating routine flaring by 2030. GMH experts and grantees, including the Environmental Defense Fund and the Clean Air Task Force, were the leading voices in ensuring these strong and measurable methane commitments were part of this charter.



What's Next in Policy, Plans, and Regulation

We'll continue to fill the finance gap facing LMICs and **advocate for import standards and fees** alongside other innovative policies that can lead to further global and regional commitments. We will also support policymakers and **advocates in more than 15 high-emitting countries to hold producers accountable** for methane plumes.

Lever 4: Capacity Building

“Through our partners and grantees, GMH prioritizes technical capacity building in communities worldwide and supports locally led organizations and governments as they develop evidence-based strategies for methane mitigation while creating linkages to boost ‘South-South’ collaboration, leadership, and innovation.”



Manjot Kaur Ahluwalia, PhD
Regional Lead, Asia

— Capacity Building

Reaching the Communities Most Vulnerable to Climate Change

Our work in Africa, Asia, and Latin America channels resources to local civil society organizations and social enterprises.

People and communities are central to change. We continue to improve our ability to co-determine, anticipate, and respond to capacity needs for and with frontline communities, tailor solutions to local contexts, and deploy them as quickly as possible.



How We Work

We provide practical and technical guidance (manuals and peer-to-peer learning) to create the enabling conditions that support advocacy and the inclusion of methane mitigation in national plans.

We anchor methane action in developmental trajectories.

We lift up and accelerate the co-benefits associated with mitigation action, such as health improvements and productivity for communities and governments.

We work to augment the ecosystem of civil society and academic organizations working on methane mitigation.

We shape and implement solutions for key geographies struggling with underreporting of methane emissions data and outdated inventories, especially in the agriculture and waste sectors.

2023 Accomplishments

We deployed seed funding for local, grassroots organizations in Africa, India, and Indonesia.

For example, in Indonesia, GMH supported the organization [ViriyaENB](#) to coordinate the measurement, reporting, and verification of methane-related data in the waste sector by mobilizing local grassroots organizations. This work can enable informed policymaking and targeted interventions in Jakarta, Bali, and West Java, and we will continue to deepen our work regionally and build a strong network of civil society organizations across data, R&D, advocacy, and technical solutions.

One of our grantees in India, the Institute for Governance and Sustainable Development (IGSD), worked with the Energy and Resources Institute (TERI) and the government of Punjab state to make a case for **including short-lived climate pollutants (SLCPs) like methane in climate targets**. [IGSD worked with Punjab's policymakers to recommend interventions](#) to help the state meet its short-lived climate pollutant targets and is now working on an implementation plan in the agriculture and waste sectors.



GMH mobilized a movement among policymakers, farmers, traders, transporters, market operators, and advocates in the hospitality industry to **develop a pathway to reduce food loss and food waste** in Madhya Pradesh and Maharashtra, India. Using aligned funding from the Oak Foundation, GMH grantee World Resources Institute India

worked with stakeholders and performed supply-chain research to draft case studies highlighting best practices to reduce food loss and waste in soybean, onion, and custard apple for the two states, and we are supporting World Resources Institute's ongoing research and "Target-Measure-Act" approach to diverting food waste from landfills and farms.

Creating a Thriving Peer-to-Peer Learning Ecosystem

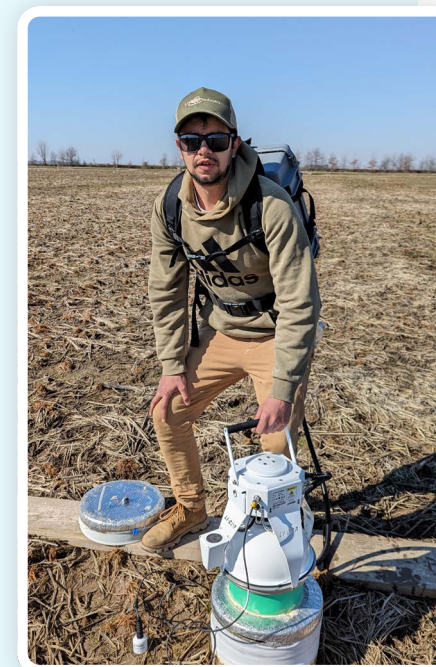
By Kofi Boateng, PhD, Program Officer, Agriculture

Cristhian Camilo Delgado Fajardo is a Ph.D. student at the School of Computing, University of Otago, New Zealand, who is using artificial intelligence and mechanistic models to improve researcher's ability to estimate greenhouse gas emissions from remote-sensing data.

Cristhian is originally from Colombia, and his research is part of the capacity-building aspect of a GMH grant to FONTAGRO and the Inter-American Institute for Cooperation on Agriculture (IICA) that aims to improve remote sensing for rice methane in Latin America. The GMH grant catalyzed funding from other partners, including the University of Otago, INIA of Uruguay, UNALM of Peru, Conagro of Panama, the FLAR network, and USDA-ARS.

In 2023, as part of a GMH grant to MIT for mapping rice flooding and methane emissions with local partners in Ghana using satellite imagery and machine learning, GMH connected MIT and IICA researchers so they could compare experiences and share lessons learned. As part of this collaboration, Cristhian trained the MIT team on the next-generation field emission measurement equipment they will deploy in Ghana later this year.

Cristhian's collaborative efforts have led to discussions about potential collaborations with USDA-ARS and MIT, where he aims to advance his work in remote sensing and machine learning for climate and sustainability research. In recognition of his expertise, Cristhian has been awarded the prestigious 2023 Google PhD Fellowship (Machine Learning) and won the Space for Planet Earth Challenge for 2023–24.



Cristhian Camilo Delgado Fajardo pictured here

Lever 5: Research and Development

“GMH coordinates and funds research to develop better, easier, and more affordable methane mitigation solutions.”



Hayden Montgomery
Program Director, Agriculture

Driving Innovation in Agriculture

In the livestock and rice value chains, food and nutrition security typically trump methane mitigation in policy and practice.

Yet many methane-mitigation practices can actually improve farmers' yield and income, and these "win-wins" are GMH's entry point to methane mitigation in low and middle-income countries.

42%

of anthropogenic
methane emissions are
caused by agriculture



How We Work

We work to achieve absolute methane emissions reductions from the livestock and rice production systems.

That means making available validated, scalable, and cost-effective methane mitigation solutions suited for different places and production levels; providing technical guidance for the improvement of GHG estimates in agricultural systems and mainstreaming the inclusion of methane in Nationally Determined Contributions (NDCs), especially across the Global South; and closing the finance gap in agricultural methane mitigation.

We improve methane-mitigation R&D infrastructure in LMICs.

We also encourage companies with significant rice and livestock portfolios to commit to mainstreaming methane in their environmental action plans and monitoring progress on their commitments.

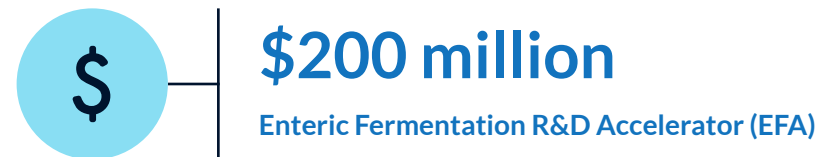
We gear our efforts toward harnessing the co-benefits associated with methane action, promoting win-win solutions, to build **resilient and sustainable ecosystems with minimal environmental footprints.**

2023 Accomplishments

Enteric fermentation—cow burps—are responsible for



At COP28, we announced that with partners including Bezos Earth Fund, High Tide Foundation, Quadrature Climate Fund, Gerstner Philanthropies, Danone, the governments of Ireland and New Zealand, **we turned our initial \$10 million investment into the**



[This historic accelerator](#) is the largest globally coordinated investment that will help identify, develop, and sustainably scale breakthrough solutions such as feed additives, vaccines, genetics, and measurement devices.



We funded the development of a user-friendly feed ration formulation tool, coordinated by UC Davis and with partners such as Digital Green, Cornell University, the New Zealand Agricultural Greenhouse Gas Research Centre, and the International Livestock Research Institute, working across 16 countries in Asia and Africa. Danone will partner with us to test the tool with dairy farmers in their North African milk sourcing to optimize the diet they feed their cows from local feed sources, improving livestock productivity and farm profitability, while reducing methane emissions.



1,000

smallholder farmers in Morocco will use it

to optimize the diet they feed their cattle from local food sources, improving livestock health and efficiency while reducing methane emissions and increasing their income.

Including methane emissions in countries' NDCs and climate plans will encourage countries in the Global South to establish and meet agricultural methane reduction targets. Our partnership with the [International Fund for Agriculture Development \(IFAD\)](#), announced last May, will provide the financial and technical support to undertake this work in 15 countries.

[Learn more about our partnership with IFAD. Reducing Agricultural Methane Programme.](#)

Reducing Agricultural Methane Programme (RAMP)

Methane emissions in developing countries, focusing on agriculture and sustainable practices for farmers. The new IFAD Reducing Agricultural Methane Programme (RAMP) aims to support countries in integrating methane reduction into their Nationally Determined Contributions (NDCs), aligning with their climate goals.

Goal of the Initiative
Build climate resilience for smallholder farmers in low- and middle-income countries as an entry point for methane emissions mitigation to align with Global Methane Pledge goals, launched at COP26 in November 2021.

SPECIFIC ACTIVITIES

- DEPLOYMENT OF TECHNICAL ASSISTANCE**
 - Technical assistance will be provided to at least 15 countries to support mainstreaming of agricultural methane mitigation into their updated NDCs ready for submission to UNFCCC.
 - All planned pathways will be appropriately costed at considering the context-specific fiscal space and macro situation, in collaboration with governments, including ministries of environment, finance, agriculture, etc., and sector stakeholders.
- PUBLICATION OF GUIDEBOOK:**
 - A guidebook will be prepared to assist countries to integrate methane reduction into their NDCs, taking into account policy environments, costs involved, and capacities, etc.
 - The guidebook will establish a standardized method for planning, mainstreaming and costing methane pledges at national level.
 - In addition, capacity development support will be provided.

Why act on Methane?
Methane is a potent short-lived climate pollutant, estimated to be responsible for 30% of current global warming. Agriculture accounts for approximately 42% of anthropogenic methane emissions, with livestock (enteric fermentation and manure management) and flooded rice cultivation being the main sources. Eighty percent (80%) of these emissions originate from low- and middle-income countries. The short atmospheric lifetime of methane means that acting now can rapidly reduce the rate of global warming while yielding co-benefits across the agriculture sector and food systems.

42% of anthropogenic methane emissions are caused by agriculture (mainly livestock and flooded rice cultivation)



What's Next in Research and Development

Seed funding from GMH will launch a rice methane **innovation accelerator** this year. Private-sector partnerships will scale the **Feed Ration Tool geographically**, and GMH will launch win-win projects on animal health and precision grazing.

Global Impact in 2023 and Beyond



More than a Re-grantor. We are a Hub.

Together, with our funders, grantees, and partners, we are carving new pathways to slow global warming today and for generations to come.

In the years since GMH was founded, **our definition of “hub” has grown increasingly sophisticated.** We know that grants alone will not lead to the change we seek. Diverse and cooperative partnerships with governments, NGOs, industries, and the scientific community allows us to play several roles: funder, thought leader, and partner.

We also know that by itself, data does not always drive action. However, access to reliable, long-term, transparent, and accurate data—and to the tools needed to apply it—creates the conditions for ambitious solutions and informed policy design that builds consensus and delivers timely success.

Most of all, our work alongside the communities most impacted by climate change reminds us that our purpose is not just driven by the urgency of climate, but in service of humanity. When we mitigate methane emissions, we also improve public health, food security, and boost economic development, facilitating a more just and sustainable world for all.

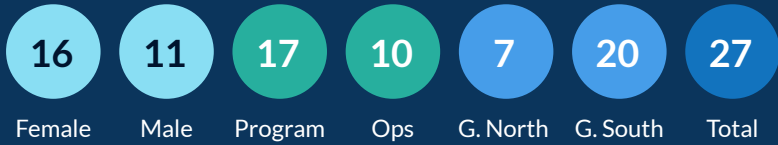
Ultimately, our theory of change prioritizes building capabilities, inviting participation, and amplifying the role of leaders in the Global South while always looking at the big picture: expanding the role of methane mitigation across geographies and sectors.

To all our funders, partners, grantees, and collaborators—we are here to share and support your vision, enable your impact, and fuel our collective commitment to reducing methane emissions and combating climate change in a way that is more immediate, more powerful, and more precise than ever before.

Thank you. We are here—we *are*—because of you.



The GMH Team





Sarah Smith
Program Director,
Energy



Mohamed Sultan
Regional Lead,
Africa



Oliver Woodford
Grants Manager



Manjot Ahluwalia
Regional Lead,
Asia



Olachi Nzuruba
People and
Operations Manager



Gloria Kibirungi
Program Associate,
Energy



Tracy Wong
Executive Assistant



Emily Gould
Program Assistant



Kimberly Karol
Head of
Development



D'Seanté Parks
Communications
Lead



Marcelo Mena
Chief Executive
Officer



Alfonso Galarce
Chief Financial and
Administrative Officer



Elise Edwards
Chief of Staff and
Operations



Carolina Urmeneta
Program Director,
Waste



Carolina Valenzuela
Office Administrator



Nicolás Díaz
Program Manager,
Waste



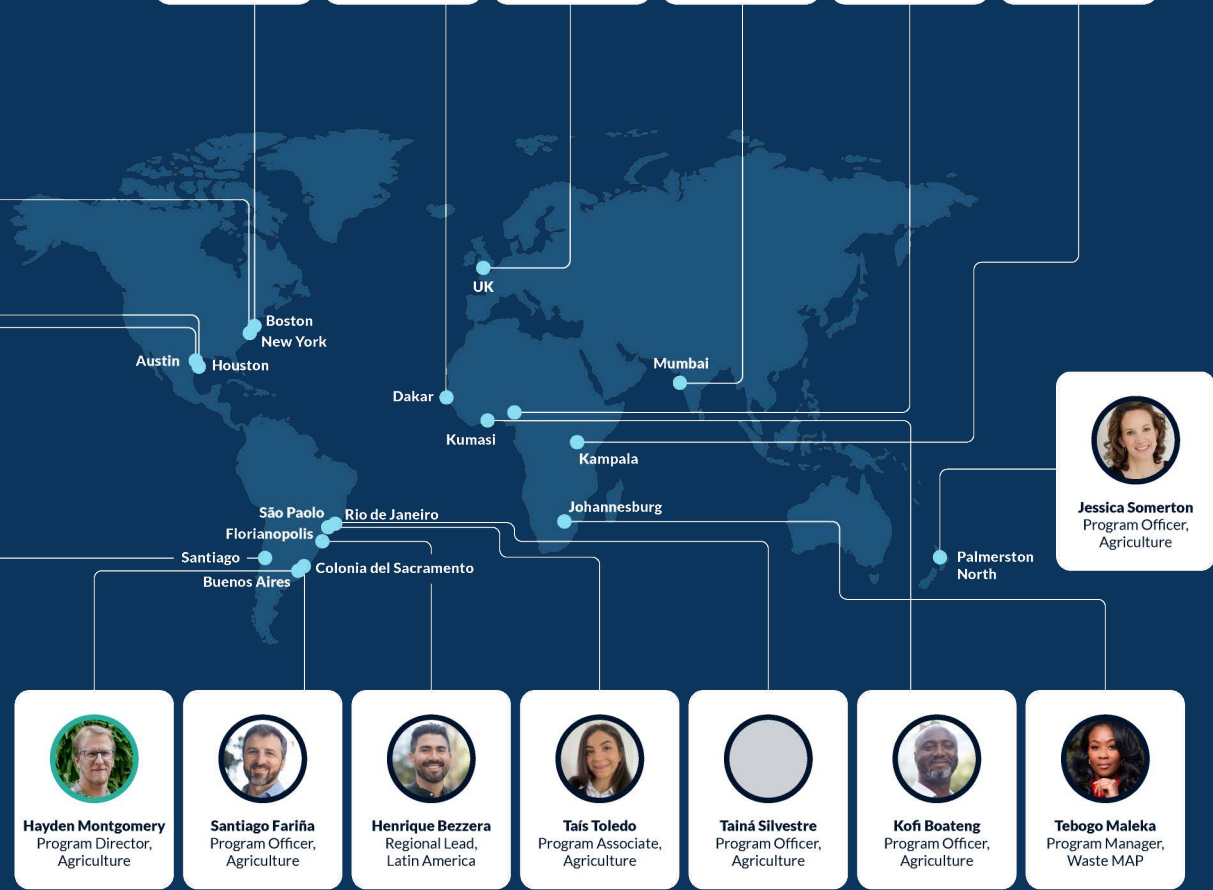
Alexandre Sánchez
Impact and
Learning Officer



Jorge Pinaud
Financial and
Administrative
Associate



Anthonella Sanchez
Administrative
Assistant,
Agriculture





Hayden Montgomery
Program Director,
Agriculture



Santiago Faríña
Program Officer,
Agriculture



Henrique Bezerra
Regional Lead,
Latin America



Tafs Toledo
Program Associate,
Agriculture



Tainá Silvestre
Program Officer,
Agriculture



Kofi Boateng
Program Officer,
Agriculture



Tebogo Maleka
Program Manager,
Waste MAP

 Executive Team Members

“The Global South has a disproportionate share of global methane emissions, hence the importance of supporting technologies, policies, and capabilities that work well on the ground. This is where our focus is: **boosting win-win practices in Agriculture, Waste, and Energy** that combine economic development with sustainability and methane mitigation. We are also working to support key countries in championing methane mitigation in climate negotiations and strengthening South-South leadership and solutions.”



Henrique Bezerra
Regional Lead, Latin America

2023 Grant Distributions



2023 Grant Distributions

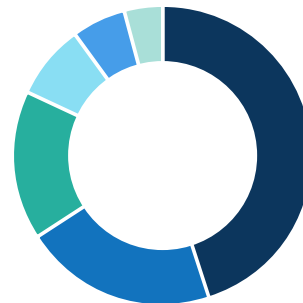
Total Distributions

In 2023, the Global Methane Hub has proudly funded 62 grant projects, totaling over \$84 million.



By Sector

- Energy: \$26,743,688 (32%)
- Waste & Circular Economy: \$22,530,039 (27%)
- Cross Cutting: \$17,958,595 (21%)
- Agriculture: \$13,008,319 (15%)
- EFA: \$3,960,412 (5%)



By Strategic Lever

- Policy, Plans & Regulation: \$37,537,474 (45%)
- Data, MRV & Accountability: \$17,549,526 (21%)
- Research & Development: \$13,633,753 (16%)
- Finance: \$7,086,984 (8%)
- Capacity Building: \$5,289,166 (6%)
- Communications: \$3,104,150 (4%)



By Region

- Global South (GS): \$35,619,471 (42%)
- Global (General): \$26,935,466 (32%)
- Global North (GN): \$21,646,116 (26%)

Overview of Grantee Activities (2022–2023)

Agriculture

GRANTEE	PROJECT	ACTIVITIES & LEVERS
CERES	Engaging Investors and Companies on Agricultural Methane Emissions	Public Policy & Regulation
CIRAD (Centre de Coopération Internationale en Recherche Agronomie et Développement)	The High Potential Shrub Forage Banks to Reduce Enteric Methane Emission	Capacity Building
Food & Agriculture Research (FFAR)	Greener Cattle Program Initiative Program	Research and Development
Institute for Agriculture and Trade Policy	Accelerate Methane Emission Reductions in the Agriculture Sector in Connection to the Global Methane Pledge	Capacity Building
Inter-American Institute for Cooperation on Agriculture (IICA)	Towards Sustainable, Low Methane Rice Production in Latin America	Data, MRV, Accountability
	Remote Sensing of Rice Methane	Data, MRV, Accountability
International Food Policy Research Institute (IFPRI)	Methane Reduction and Climate Resiliency in Agriculture; Tamil Nadu, India	Capacity Building
International Fund for Agriculture Development (IFAD)	Support for the Development of Policies, Programmes, and Projects Addressing the Mitigation of Methane by Smallholder Farmers in LMICS	Public Policy & Regulation

GRANTEE	PROJECT	ACTIVITIES & LEVERS
Massachusetts Institute of Technology (MIT)	Mapping Rice Water Management and Methane Emissions in Ghana	Data, MRV, Accountability
Mighty Earth	A Perfect Storm to Tackle Agricultural Methane	Capacity Building
Queens University Belfast	Rumen Gateway - Microbial Genomics Hungate Collection	Research and Development
	Rumen Gateway - Expanding Participation to South America and Africa	Research and Development
South South North Projects (SSN)	Africa LEDS Partnership Community of Practice on Low-Emission Climate Resilient Rice Production in Africa	Capacity Building
University of California, Davis	Development of a Feed Ration Formulation Tool	Research and Development
ZELP	Development of a Low-Cost, Scalable Tool to Reliably Measure Methane Emissions Across Cattle Systems	Research and Development

Overview of Grantee Activities (2022–2023)

Energy

GRANTEE	PROJECT	ACTIVITIES & LEVERS
Agora Energiewende	Integrating Methane into the EU (Energy) Agenda	Public Policy & Regulation
Boston University - School of Public Health	Climate, Health, and Energy: Air Quality and Health Benefits of Methane Reduction in the U.S. Oil and Gas Sector	Research and Development
Carbon Limits	IMEO Support	Capacity Building
	Support Countries to Scale Up Methane Mitigation Planning and Action	Capacity Building
Carbon Tracker Initiative Inc	Asset Retirement Obligations	Data, MRV, Accountability
Centre for Research on Energy and Clean Air (CREA)	Russia Fossil Fuel Exports & Coal Mine Methane Tracking	Data, MRV, Accountability
CERES	Engaging National Oil Companies on Methane Emissions	Public Policy & Regulation
Clean Air Task Force Inc (CATF)	Bending the Curve on Methane in China's Coal and Oil & Gas Sectors	Capacity Building
	Moving from Momentum to Action on Methane Mitigation	Public Policy & Regulation

GRANTEE	PROJECT	ACTIVITIES & LEVERS
Climate Nexus	Gas Leaks Action Campaign	Capacity Building
	Methane Accountability Strike Team	Capacity Building
Corporacion Fiscalia del Medio Ambiente (FIMA)	Legal Strategies to Support Local Communities Affected by New Infrastructure	Data, MRV, Accountability
Earthworks	Optical Gas Imaging and Rapid Communications to Expose and Increase Accountability for Oil and Gas Methane Pollution in the U.S. and the Global South	Data, MRV, Accountability
	Reducing Oil & Gas Methane Pollution in the U.S. and Latin American Countries (LAC)	Data, MRV, Accountability
Ember	Ember's Global Coal Mine Methane (CMM) Reduction Programme	Data, MRV, Accountability
Energy Transition Fund (ETF)	Canada Methane and Industry Strategy	Public Policy & Regulation
	Canada Methane Campaign & Global Opportunity Fund	Public Policy & Regulation
Environmental Action Germany (DUH)	Doubling Down on Methane Emissions	Public Policy & Regulation
Environmental Defense Fund Inc (EDF)	Reducing "Off the Books" Oil and Gas Methane Emissions	Data, MRV, Accountability
	Cutting Methane Emissions from National Oil Companies: Leveraging Investor Pressure and Capital Flows Data	Finance

GRANTEE	PROJECT	ACTIVITIES & LEVERS
European Climate Foundation (ECF)	Linking Methane Action with the EU Gas Phase Down	Capacity Building
	European Gas in Light of Ukraine	Public Policy & Regulation
	Scoping and Scaling Strategic Communications on Methane - Global Strategic Communications Council	Capacity Building
Fundación Futuro Latinoamericano Internacional	Towards the Electrification of Gas Appliances in Latin America: A Narrative from the Global South	Public Policy & Regulation
Global Energy Monitor (GEM)	Global Coal/Oil/Gas Methane Emitters Tracker (COG-MET)	Data, MRV, Accountability
IHS Global Inc	S&P Egypt	Public Policy & Regulation
Influence Map CIC	Tracking Corporate Engagement with Methane Regulations	Data, MRV, Accountability
Institute for Governance and Sustainable Development (IGSD)	Accelerating International Action on Methane	Public Policy & Regulation
Instrat Foundation	Curbing Methane Emissions from Coal Mining in Poland and Scoping Methane Mitigation in Ukraine	Data, MRV, Accountability
International Hydropower Association	Global Hydropower Methane Emissions Observation Network	Research and Development
International Institute for Sustainable Development (IISD)	Support to the Beyond Oil and Gas Alliance	Public Policy & Regulation
Latin American Energy Organization (OLADE)	Activation of OLADE's Latin American and Caribbean Methane Emissions Observatory (OEMLAC)	Data, MRV, Accountability

GRANTEE	PROJECT	ACTIVITIES & LEVERS
PSE Healthy Energy	Gas Composition Transparency Initiative	Research and Development
Reclaim Finance	Stopping Financial Flows	Finance
Stand.Earth	BC LNG/Fracking Campaign	Capacity Building
Stanford University	Large-Scale Controlled Release Testing of Methane Detection from Satellites, Airplanes, and Ground Monitoring Equipment	Research and Development
Swaniti Initiative	Methane Mitigation Challenges and Opportunities in India's Energy Sector: A Systematic Review	Research and Development
The Natural Resource Governance Institute (NRGI)	Reducing Methane Emissions in Nigeria and Senegal	Capacity Building
The Partnership Project Inc	Methane Partners Campaign	Public Policy & Regulation
	Methane Partners Campaign (Renewal)	Capacity Building
The Pembina Institute for Appropriate Development	Advancing Canadian Action and Global Leadership on Methane in the Oil and Gas Sector	Public Policy & Regulation
The Sunrise Project Australia Limited	Tackling Australia's Energy Methane Problem	Capacity Building
	Tackling Australia's Energy Methane Problem (Renewal)	Public Policy & Regulation
	EU Taxonomy: Breaking the Gas Habit	Public Policy & Regulation
Trustees of Columbia University in the City of New York	Transferred Emissions	Data, MRV, Accountability

Overview of Grantee Activities (2022–2023)

Waste and Circular Economy

GRANTEE	PROJECT	ACTIVITIES & LEVERS
Asociacion Movimiento Nacional de Recicladores de Chile (ANARCH)	Recycler Ambassador on Organic Waste	Capacity Building
C40 Cities Climate Leadership Group Inc	Transforming City Waste Management to Dramatically Reduce Methane Emissions	Public Policy & Regulation
	Transforming Waste Management in African and Indian Cities to Reduce and Avoid Methane Emissions	Finance
Center for Clean Air Policy (CCAP/IS)	Methane Mitigation Project Accelerator Program for the Waste Sector (Reciclo Orgánicos Latin America)	Finance
	Community of Practice on Reduction of Methane Emissions from Organic Sources (Cop Met-LAC)	Capacity Building
Clean Air Task Force Inc (CATF)	Waste Methane Assessment Platform (Waste MAP) And Country Deep Dives	Data, MRV, Accountability
	Waste MAP: Integral Decision-Making Platform for Identifying and Mitigating Global Methane Emissions in the Waste Sector	Public Policy & Regulation
Delterra	Transforming the Waste Sector to Reduce Methane Emissions in the Global South	Finance

GRANTEE	PROJECT	ACTIVITIES & LEVERS
Energy Policy Research Institute (EPIC)-University of Chicago	Landfill Interventions, Cost-effective Analysis	Capacity Building
Global Alliance for Incinerator Alternatives (GAIA)	Accelerating Methane Reduction and Justice through Zero Waste Preparatory Phase: Embedding Values & Principles for Justice in Methane Reduction Efforts	Capacity Building Public Policy & Regulation
Global Food Banking Network (GFBN)	Building a Resilient Food System: Quantifying and Growing Methane Reductions through Community-Based Food Recovery & Redistribution in Partnership with the Global Food Banking Network (GFN)	Data, MRV, Accountability
Global Green Growth Institute (GGGI)	Targeted Interventions on Methane Emissions from Waste in North and West Africa	Public Policy & Regulation
Green Africa Youth Organization	Zero Waste for a Sustainable Cityscape in Accra Metropolis (Zero Waste Accra)	Capacity Building
Iniciativa Climatica de Mexico (ICM)	The Mexican Methane Emissions Observatory – Critical Information about the Waste Sector	Public Policy & Regulation
Inter-American Development Bank (IADB - IDB)	Too Good to Waste: Catalytic Initiative to Mitigate Methane Emissions from Waste In LAC	Finance
International Solid Waste Association (ISWA)	First-Ever Waste and Resources Pavilion at COP28	Capacity Building
International Sustainable Energy Foundation	Operate a Climate-Focused Project Preparation and Bid Process Management Facility for Indian Cities	Finance

GRANTEE	PROJECT	ACTIVITIES & LEVERS
ReFED, Inc	Making Methane Reduction Visible: Food Loss, Waste, and Reduction	Data, MRV, Accountability
Rocky Mountain Institute (RMI)	Waste MAP and Country Deep Dives	Data, MRV, Accountability
	Waste MAP: Integral Decision-Making Platform for Identifying and Mitigating Global Methane Emissions in the Waste Sector	Data, MRV, Accountability
Space Research Organization Netherlands (SRON)	Targeting Waste Emissions Observed from Space (TWOS) – Phase 1	Data, MRV, Accountability
	Targeting Waste Emissions Observed from Space (TWOS) – Phase 2	Data, MRV, Accountability
ViriyaENB	Reducing Waste-Related Methane Emissions in Provinces of Indonesia	Public Policy & Regulation
World Biogas Association (WBA)	Biogas Framework + Anaerobic Digestion Certification Scheme (ADCS)	Data, MRV, Accountability
World Resources Institute (WRI)	Mobilizing a Movement and Pathway to Reduce Food Loss and Food Waste in India to Mitigate Climate Impacts, Strengthen Nutritional Security, and Enhance Livelihoods	Public Policy & Regulation

Overview of Grantee Activities (2022–2023)

Cross-Cutting

GRANTEE	PROJECT	ACTIVITIES & LEVERS
AfriCatalyst	Africa Methane Finance Project	Finance
Benenson Strategy Group (BSG)	Global Public Opinion Study on Methane Emissions Reduction	Capacity Building
Centro Mexicano de Derecho Ambiental (CEMDA)	Strengthening Climate Justice in the Waste and Energy Sectors in Mexico through Transparency and Accountability of Methane Emissions	Public Policy & Regulation
Clean Air Task Force Inc (CATF)	Bending The Climate Curve: GMP Support and NDC Support	Public Policy & Regulation
Climate Interactive	Enhancing Methane Solutions in Simulations for Global Decision-Makers	Research and Development
Climate Nexus	Methane Communications Activities for COP 27	Capacity Building
Climate Policy Initiative (CPI)	CPI Spotlight Report on Climate Mitigation Finance Focusing on Methane Emissions (Phase 1)	Finance
	The Landscape Methane Abatement Finance 2023	Public Policy & Regulation
ClimateWorks Foundation	Global Innovation Needs Assessments Food System Methane	Public Policy & Regulation

GRANTEE	PROJECT	ACTIVITIES & LEVERS
Doughty Street Chambers	Intervention Before the Inter-American Court of Human Rights on Methane	Public Policy & Regulation
Duke University	Analyses to Support Fast Action on Methane	Public Policy & Regulation
Energy Foundation China	A Comprehensive Methane Mitigation Strategy for China	Public Policy & Regulation
	A Comprehensive Methane Mitigation Strategy for China: Phase 2	Public Policy & Regulation
Environmental Action Germany (DUH)	European Methane Consortium: Ramping Up Efforts to Cut Methane Emissions in Europe and Increase European Global Leadership	Data, MRV, Accountability
Environmental Defense Fund Inc (EDF)	A Comprehensive Methane Mitigation Strategy for China	Public Policy & Regulation
	A Comprehensive Methane Mitigation Strategy for China: Phase 2	Public Policy & Regulation
Fundacion para el desarrollo integral y sostenible (Filantropía Cortés-Solari)	COP27 Science for Climate Action Pavilion	Capacity Building
Global Climate & Health Alliance (GCHA)	Mitigating Methane, A Global Health Strategy	Capacity Building
Institute for Governance and Sustainable Development (IGSD)	Accelerating Methane Mitigation at Local, Regional, and Global Levels	Public Policy & Regulation
	General Support 1 - Controlling Methane at The Multilateral Level	Public Policy & Regulation
	Raising the Bar on China's Methane Mitigation Ambition: Strategic International Collaboration Combined with Technical and Policy Analysis	Public Policy & Regulation
	Implementing a Sub-National Strategy for Fast Mitigation of SLCPs in India	Public Policy & Regulation

GRANTEE	PROJECT	ACTIVITIES & LEVERS
Instituto de Gobernanza - Parlamento Andino	Parliamentary Action Platform in Latin America on Climate Change, Greenhouse Gases and Legislative Initiatives on Methane Emissions Reduction	Public Policy & Regulation
Kayrros	Methane Watch Platform for UNEP	Data, MRV, Accountability
Massachusetts Institute of Technology (MIT)	Methane Action Workshop	Capacity Building
Natural Resources Defense Council Inc (NRDC)	A Comprehensive Methane Mitigation Strategy for China	Public Policy & Regulation
	A Comprehensive Methane Mitigation Strategy for China: Phase 2	Public Policy & Regulation
Polis Institute	Brazil Composts and Cultivates: Accelerating Organic Waste Management	Public Policy & Regulation
Project Drawdown	A Drawdown Roadmap for Methane in the Food System	Public Policy & Regulation
Rockefeller Philanthropy Advisors (RPA)	Climate Champions: Systems Transformation to Reduce Methane Emissions	Public Policy & Regulation
Rocky Mountain Institute (RMI)	A Comprehensive Methane Mitigation Strategy for China	Public Policy & Regulation
	A Comprehensive Methane Mitigation Strategy for China: Phase 2	Public Policy & Regulation
Solutions for Our Climate (SFOC)	Driving Methane Reduction in Asia	Public Policy & Regulation
Sustainability Solutions Group Chile SPA (SSG)	Sustainability Solutions Group Chile SPA	Data, MRV, Accountability

GRANTEE	PROJECT	ACTIVITIES & LEVERS
TrustAfrica	Africa Methane Action Seed Funding Initiative	Capacity Building
United Nations Environment Programme (UNEP)	International Methane Emissions Observatory (IMEO)	Data, MRV, Accountability
	Methane Alert Response System (MARS)	Data, MRV, Accountability
	Climate And Clean Air Coalition (CCAC)	Public Policy & Regulation
University of California, Los Angeles (UCLA)	The Revolution in Methane Monitoring: Using Remote Observations to Advance Methane Emissions Control (Guidelines for Policymakers)	Public Policy & Regulation
World Resources Institute (WRI)	A Comprehensive Methane Mitigation Strategy for China	Public Policy & Regulation
	A Comprehensive Methane Mitigation Strategy for China: Phase 2	Public Policy & Regulation

Advisory Board & Philanthropic Partners

Advisory Board

Marisa de Belloy

Global Methane Hub Advisory Board Chair
President, High Tide Foundation

Alexander Ege

Chief Programmes and Strategy Officer
Quadrature Climate Foundation

Ed Hogg

Head of Energy Transition
Children's Investment Fund Foundation

Hannah McKinnon

Program Director
Sequoia Climate Foundation

Louise Olivier

Program Manager
IKEA Foundation

Jonathan Pershing

Program Director, Environment
William and Flora Hewlett Foundation

Jorgen Thomsen

Director, Climate Solutions
John D. and Catherine T. MacArthur Foundation

Philanthropic Partners

A Growing Community of Funders

At the Global Methane Hub, we are proud to be supported by a growing community of committed philanthropies and leaders who envision a world in which methane mitigation is key to reducing global warming.

As active participants and contributors to the success of the methane movement, **our funders are a key part of our DNA as an innovative hub of change-makers and doers.**

AKO Foundation

ballmer
GROUP®

 BEZOS
EARTH
FUND

BILL & MELINDA
GATES *foundation*

Bloomberg
Philanthropies

 Breakthrough
Energy

CIFF CHILDREN'S
INVESTMENT FUND
FOUNDATION

climate:imperative



IKEA Foundation



“We cannot afford for food to be on the sidelines of climate and nature conversations any longer. Food is a victim, problem, and solution in the climate and nature crises, and we must raise its profile in the discussion.”

Dr. Andrew Steer
President and CEO, Bezos Earth Fund

“Delivering unprecedented levels of new finance is essential for scaling rapid progress on super pollutants, while realizing the needed energy transition. It is critical that this financing supports those already grappling most with the devastating impacts of climate change, and it must enable critical progress on adaptation and loss and damage.”

Jess Ayers
CEO, Quadrature Climate Foundation





“The speed of an equitable and just transition matters. With more frequent and extreme weather events, the livelihoods and health of citizens in vulnerable communities are being affected, and it’s going to get worse before it gets better. Climate science supports speed and the lever for addressing speed is super pollutants.”

Christie Ullman
President, Sequoia Climate Foundation

Let's Partner!

For more information, please contact:

Kimberly Karol, APR, CFRE

Head of Development Global Methane Hub

kimberly.karol@globalmethanehub.org

globalmethanehub.org



Global
Methane
Hub