

Materials will be available at:

www.eesi.org/102424cop

Tweet about the briefing:

#eesitalk @eesionline

# Methane Mitigation on the Global Stage

What Congress Needs to Know about COP29

#### **About EESI**

**Sustainable Solutions** 



- Non-partisan Educational Resources for Policymakers
  - A bipartisan Congressional caucus founded EESI in 1984 to provide non-partisan information on environmental, energy, and climate policies
- Direct Assistance for Equitable and Inclusive Financing Program

  In addition to a full portfolio of federal policy work, EESI provides direct assistance to utilities to develop "on-bill financing" programs
- Commitment to Diversity, Equity, Inclusion, and Justice

  We recognize that systemic barriers impede fair environmental, energy, and climate policies
  - and limit the full participation of Black, Indigenous, people of color, and legacy and frontline communities in decision-making
- Our mission is to advance science-based solutions for climate change, energy, and environmental challenges in order to achieve our vision of a sustainable, resilient, and equitable world.

#### Policymaker Education



#### **Briefings and Webcasts**



Live, in-person and online public briefings, archived webcasts, and written summaries

#### **Climate Change Solutions**



Bi-weekly newsletter with everything policymakers and concerned citizens need to know, including a legislation and hearings tracker

#### **Fact Sheets and Issue Briefs**

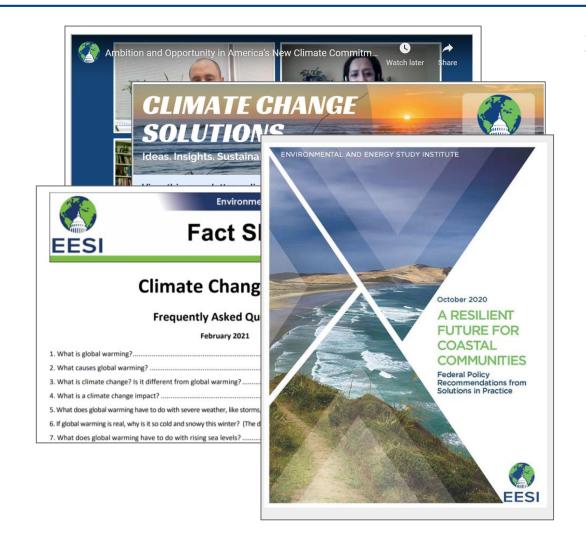


Timely, objective coverage of environmental, clean energy, and climate change topics

#### Social Media (@EESIOnline)



Active engagement on Twitter, Facebook, LinkedIn, and YouTube





### What Congress Needs to Know about COP29

What's on the Table for the Negotiations

**Methane Mitigation on the Global Stage** 



U.S.-China Engagement and International Climate Diplomacy Friday, October 25, 12:00 – 1:00 PM

Signup for our COP newsletter here: <u>eesi.org/signup</u>
Briefing RSVP here: <u>eesi.org/cop29-briefings</u>

4



### What did you think of the briefing?

Please take 2 minutes to let us know at: www.eesi.org/survey

Materials will be available at: www.eesi.org/102424cop

Tweet about the briefing: #eesitalk @eesionline



# Methane mitigation: pulling the emergency break on climate change.

Marcelo Mena, CEO



#### The Global Methane Hub



- Philanthropic effort to align funding on methane mitigation in the energy, agriculture, and waste sectors.
- Supporting Global Methane Pledge signatories and potential signatories in meeting the pledge and going beyond.
- Drive coordination and collaboration on methane advocacy while granting ideas with the highest impact.

Cutting methane emissions is the fastest, most effective way to reduce the rate of global warming and contribute to limiting temperature rise to 1.5°C

40% of methane comes from fossil fuel extraction



# 60% of methane comes from

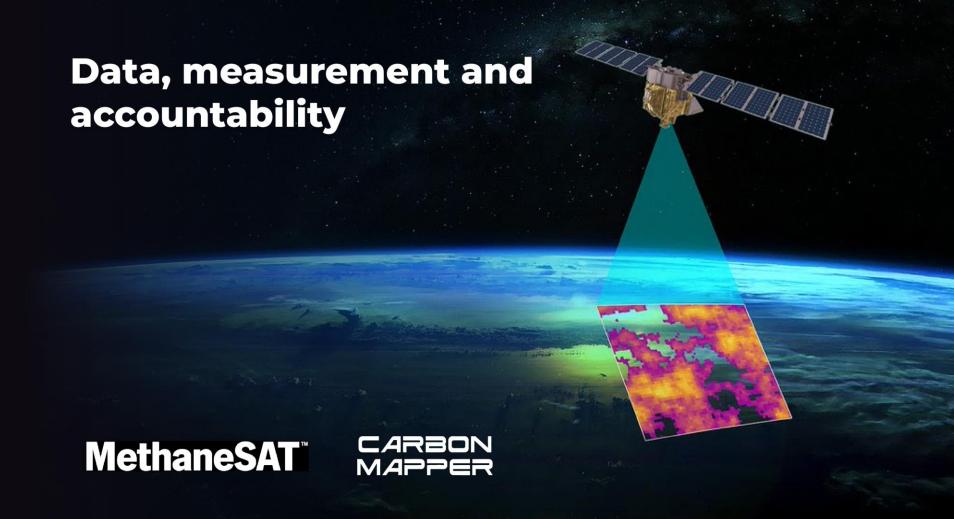


Food production



Food waste



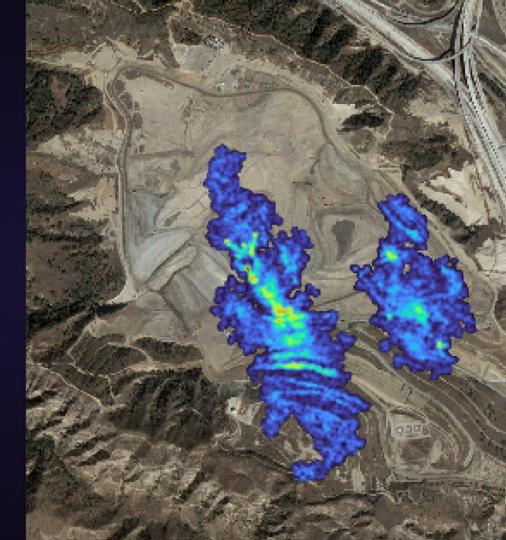






# The Sunshine Canyon Landfill

(March 2017)



# The Sunshine Canyon Landfill

(March 2017)





Clean energy journalism for a cooler tomorrow

### Landfill methane is a big climate problem. Here are some easy solutions.

The methane released by U.S. landfills could be cut in half in the next 25 years if the EPA adopts policies that some states have now, a new study finds.











#### The New York Times

#### Leaks Can Make Natural Gas as Bad for the Climate as Coal, a Study Says

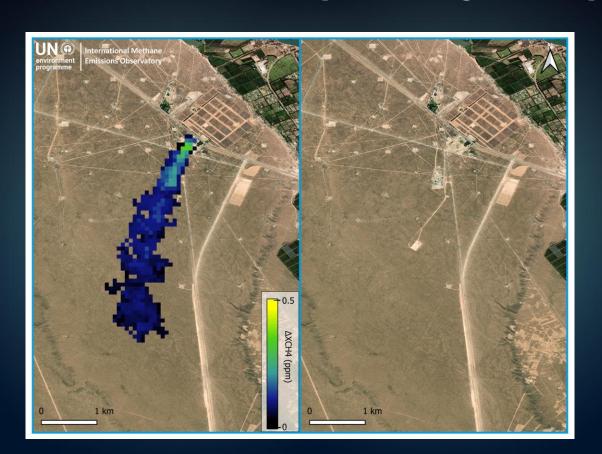
The bottom line: If gas leaks, even a little, "it's as bad as coal," explains RMI's Deborah Gordon, "It can't be considered a good bridge, or substitute."





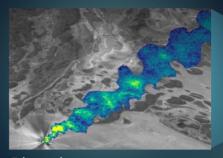


#### Methane Alert and Response System (MARS)



#### Data, measurement and accountability

Scientists say they've detected a huge methane leak in Kazakhstan



Bloomberg

Turkmenistan in Talks With US to Tackle Giant Methane Leaks

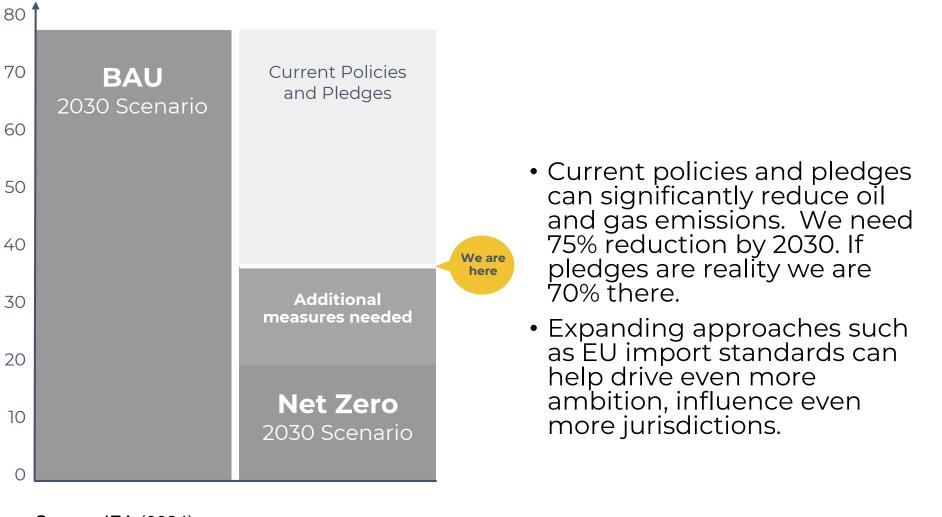


Bloomberg

Big LNG buyers and producers tighten methane monitoring



Financial Times

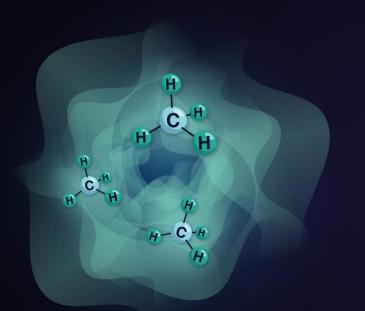


Source: IEA (2024).

# THE SINGLE LARGEST

**Anthropogenic source of methane** 



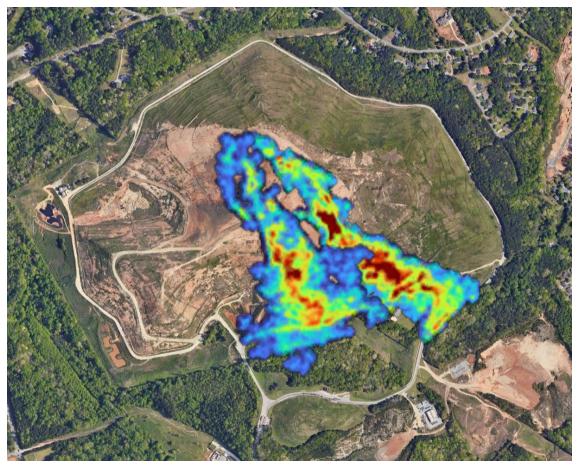


# Enteric Fermentation R+D Accelerator



# **Emissions visibility is rapidly improving**





Source: Carbon Mapper
WASTEMAP

# Through BIL & IRA, the U.S. is making progress toward the Global Methane Pledge

NATIONAL STRATEGY TO
ADVANCE AN INTEGRATED
U.S. GREENHOUSE GAS
MEASUREMENT,
MONITORING, AND
INFORMATION SYSTEM

A REPORT BY THE GREENHOUSE GAS MONITORING AND
MEASUREMENT INTERAGENCY WORKING GROUP



Biden-Harris Administration Announces \$117 Million in Grants Available to Advance Recycling Infrastructure and Prevent Wasted Food

EPA, DOE Announce \$850 Million to Reduce Methane Pollution from the Oil and Gas Sector

NATIONAL
STRATEGY FOR
REDUCING FOOD
LOSS AND WASTE
AND RECYCLING
ORGANICS
JUNE 2024



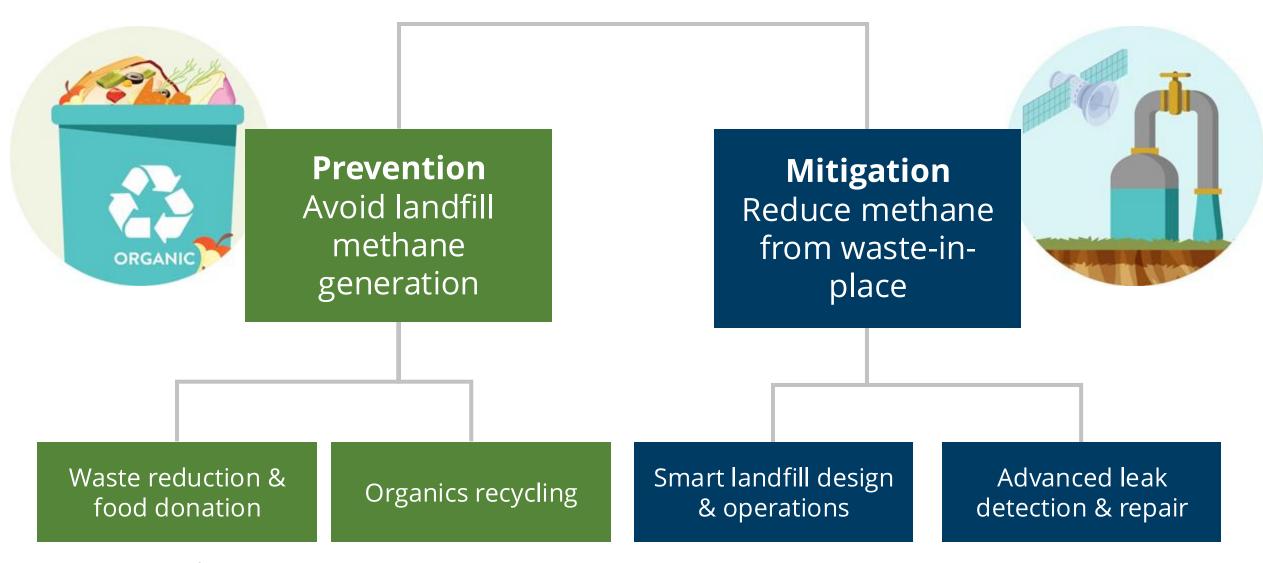
Waste Emissions Charge (WEC)



**GHGRP Subpart W** 

Biden-Harris Administration Invests \$775 Million from Investing in America Agenda for States to Plug Orphaned Oil and Gas Wells

#### A Comprehensive Approach to Reduce Landfill Methane

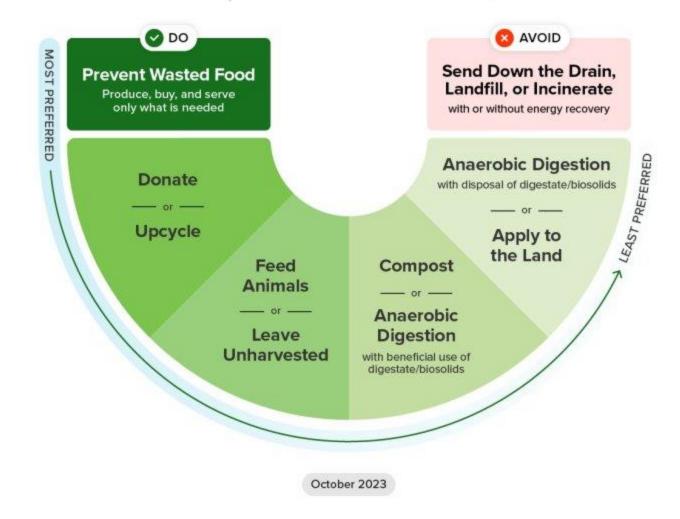


**Prevention** strategies keep organic waste out of landfills through source reduction, edible food donation, and organics recycling to prevent future methane generation

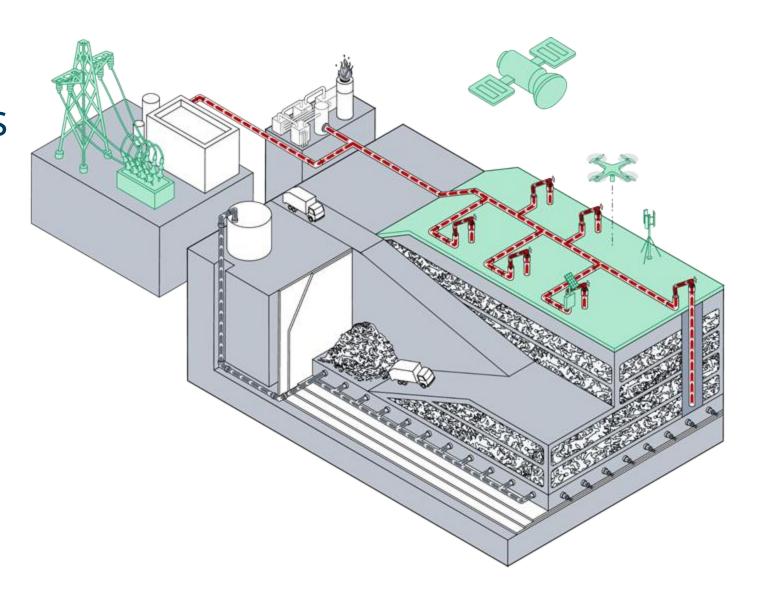


#### **Wasted Food Scale**

How to reduce the environmental impacts of wasted food



**Mitigation** strategies optimize landfill design, monitoring, and operations to increase methane capture and reduce fugitive emissions from waste-in-place.



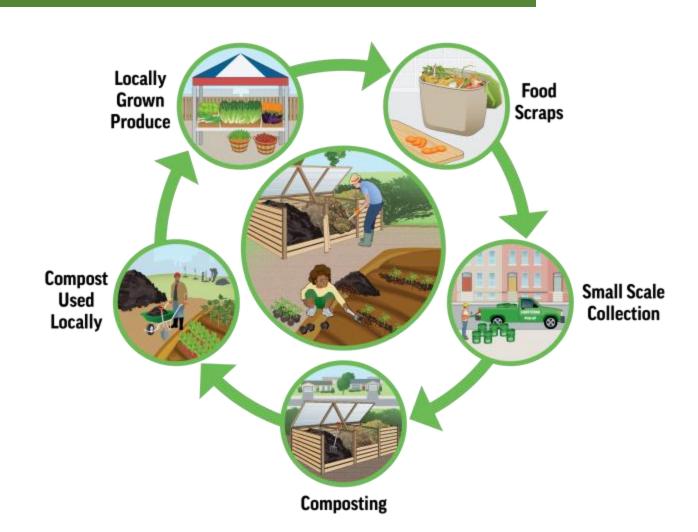


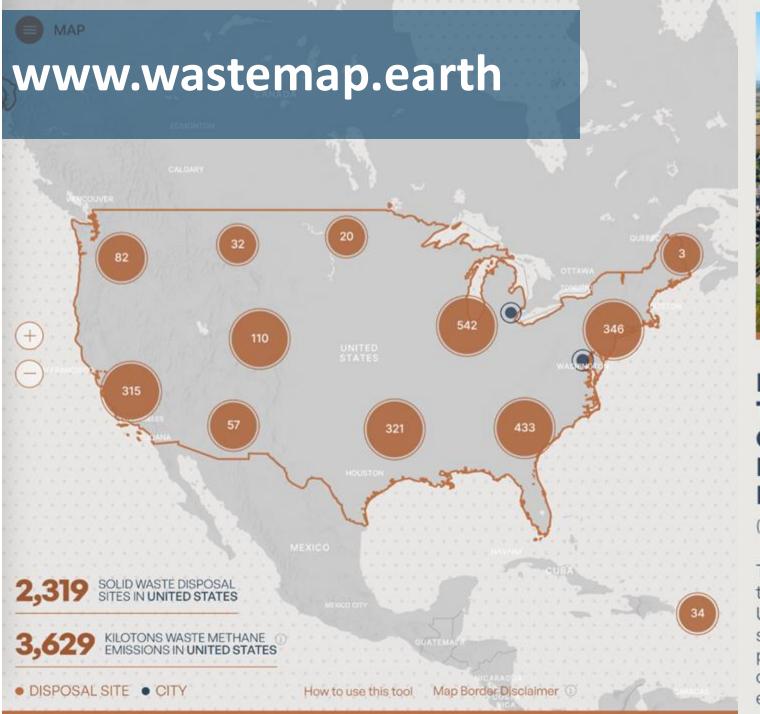




### Global and local benefits

- Slow near-term warming
- Improve air quality
- Protect public health
- Invest in healthy soils and food systems
- Create jobs







# Deploying Advanced Monitoring Technologies at US Landfills: How Landfill Operators and Municipalities Can Leverage New Tools to Reduce Methane Emissions and Deliver Powerful Benefits

This playbook is intended to provide an overview of strategies to monitor and mitigate emissions that may be appropriate for US landfill operators to consider based on their evaluation of site-specific, technological, and operational conditions. The playbook also contains some case studies and highlights the community and economic benefits of reducing methane emissions.

# U.S. Department of State Methane Mitigation from Pledges to Plans to Progress



Ilissa Ocko, Ph.D.
Senior Advisor
Office of the Special
Presidential Envoy for Climate
U.S. Department of State

# Office of the Special Presidential Envoy for Climate (SPEC) has made methane mitigation a **priority**





30% of current warming and **fastest** way to curb the climate crisis



Strategies available to cut emissions in half, many affordable



Global reach that leverages work of domestic agencies

### Priority areas

# Driving PLEDGES

US and EU launched Global Methane Pledge in 2021, now has 155+ country participants

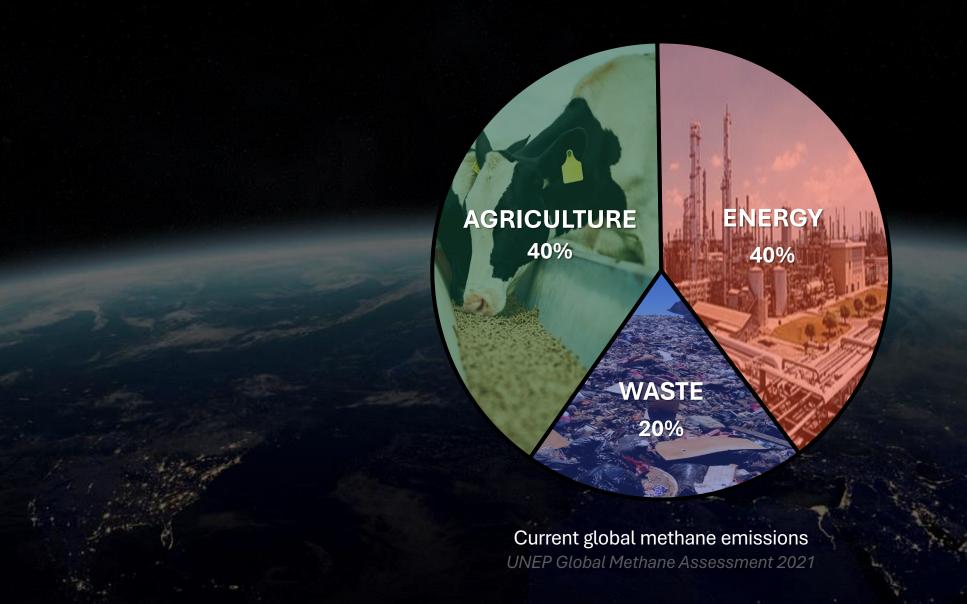
# Facilitating PLANS

90+ countries have released or are developing methane action plans

# Securing PROGRESS

Working across all sectors and with major emitters to implement projects and strengthen policies, while facilitating data tools and mobilizing funding, and with many agency and international partners

### Securing progress across all sectors



# Securing progress by major emitters



**MEDIA NOTE** 

**OFFICE OF THE SPOKESPERSON** 

NOVEMBER 14, 2023

Recalling the meeting between President Xi Jinping and President Joseph R. Biden in Bali, Indonesia, t United States and China reaffirm their commitment to work jointly and together with other countries address the climate crisis. In this regard, U.S. Special Presidential Envoy for Climate John Kerry and China Special Envoy for Climate Change Xie Zhenhua met in Beijing from 16 to 19 July 2023 and at Sunnylands, California, from 4 to 7 November 2023 and released the following:

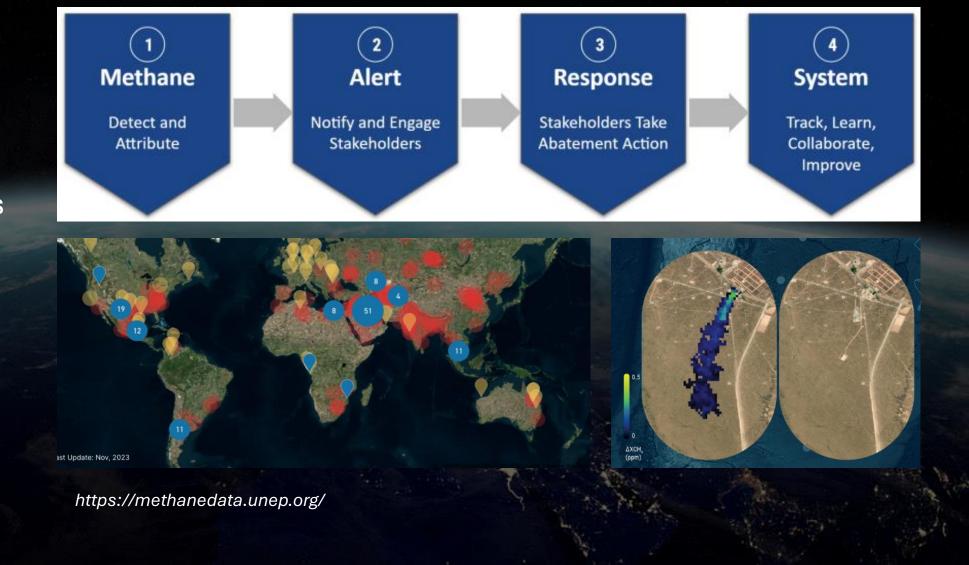
#### Methane and Other Non-CO2 GHG Emissions

- 10. The two countries will implement their respective national methane action plans and intend to elaborate further measures, as appropriate.
- 11. The two countries will immediately initiate technical working group cooperation on policy dialogue, technical solutions exchanges, and capacity building, building on their respective national methane action plans to develop their respective methane reduction actions/targets for inclusion in their 2035 NDCs and support each country's methane reduction/control progress.
- 12. The two countries intend to cooperate on respective measures to manage nitrous oxide emissions.
- 13. The two countries intend to work together under the Kigali Amendment to phase down HFCs and commit to ensure application of ambitious minimum efficiency standards for all cooling equipment manufactured.

# Securing progress by facilitating data tools



International
Methane Emissions
Observatory
Methane Alert and
Response System
(MARS)



# Securing progress by mobilizing funding





## Agency and international partners

**EPA** 

**USTDA** 

**UNEP Climate and Clean Air Coalition** 

**USAID** 

**EXIM** 

UNEP International Methane Emissions Observatory

**USDA** 

**DFC** 

**World Bank** 

DOE

COMMERCE

**Regional MDBs** 

DOT

U.S. Chamber + Business Councils

# Upcoming milestones: COP29



Methane and Non-CO2
Greenhouse Gases Summit

hosted by US, China, and COP29 Presidency of Azerbaijan

Global Methane Pledge Ministerial hosted by US, EU, CCAC

## Upcoming milestones: 2035 NDCs



#### Support Global Stocktake consensus

39. Reaffirms the nationally determined nature of nationally determined contributions and Article 4, paragraph 4, of the Paris Agreement and encourages Parties to come forward in their next nationally determined contributions with ambitious, economy-wide emission reduction targets, covering all greenhouse gases, sectors and categories and aligned with limiting global warming to 1.5 °C, as informed by the latest science, in the light of different national circumstances;

# Why methane mitigation is a must

1 Possible

Numerous strategies available to slash methane emissions

Practical

Many cost-effective opportunities and co-benefits

3 Powerful

Large climate and societal benefits from action



### What did you think of the briefing?

Please take 2 minutes to let us know at: www.eesi.org/survey

Materials will be available at: www.eesi.org/102424cop

Tweet about the briefing: #eesitalk @eesionline

