



# U.S. Methane Emissions Reduction Action Plan

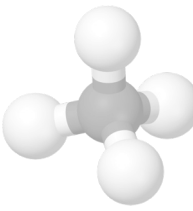
Pamela M. Franklin, Ph.D.

U.S. Environmental Protection Agency

World Biogas Summit

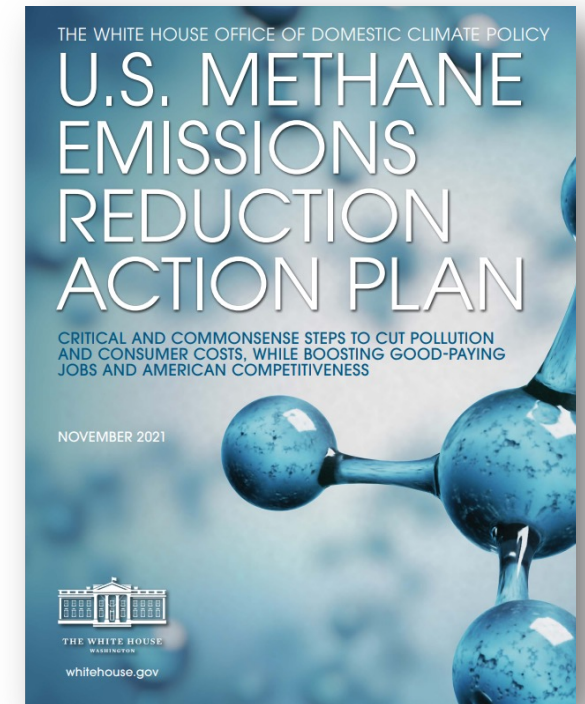
June 2022

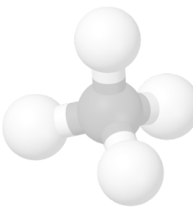
# Overview of the Action Plan



The *U.S. Methane Emissions Reduction Action Plan* redoubles efforts from across the government to dramatically cut U.S. methane emissions.

- Addresses methane emissions from all key sectors
- Documents both existing and planning activities across the U.S. government
- Includes incentive-based, voluntary partnership programs and regulatory actions
- Reinforces U.S. international leadership to address methane emissions on the global scale

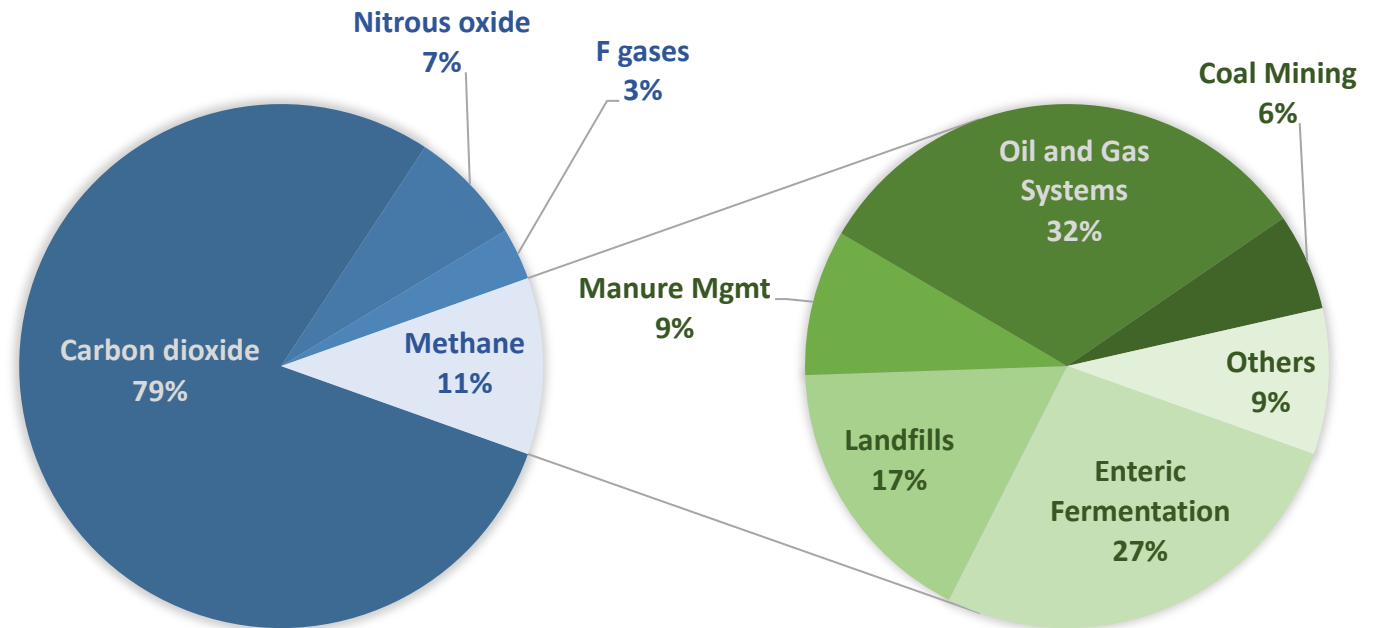




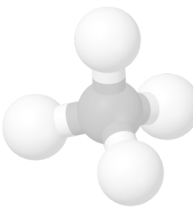
# Scale of Methane Emissions in the U.S.

- 11 percent of total greenhouse gas (GHG) emissions in the United States in 2020
- Second most abundant GHG emitted
- Key emissions sectors include landfills, enteric fermentation, manure management, oil and gas, and coal mining

U.S. Methane Emissions by Gas and Source, 2020

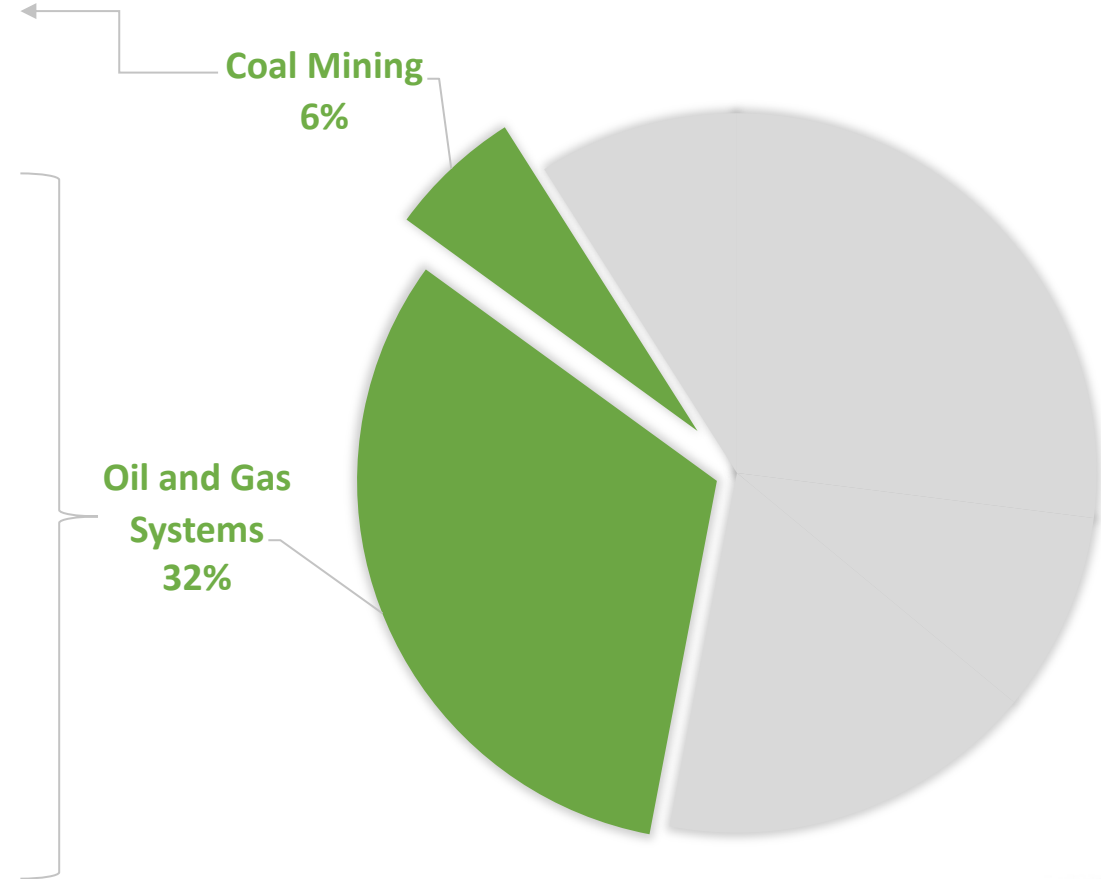


# Oil & Gas and Coal Mining Sector Priorities

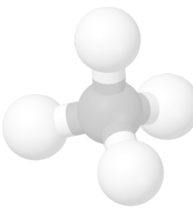


- 1 Remediate abandoned coal mines
- 2 Propose emissions guidelines and new source performance standards under the Clean Air Act
- 3 Boost safety of gathering and transmission pipelines
- 4 Reduce methane leaks and ruptures on distribution lines
- 5 Reduce venting, flaring, and well leaks on public lands and water
- 6 Plug abandoned oil and gas wells

U.S. Methane Emissions by Source, 2020



# Landfill Sector Priorities



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## Reduce methane emissions from large landfills

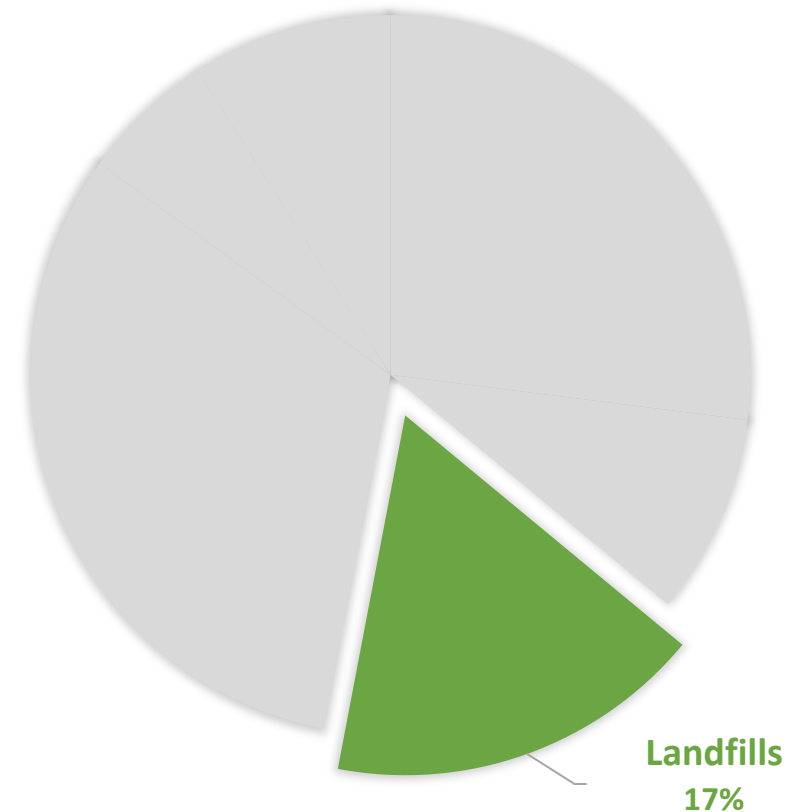
- Landfill Methane Outreach Program (LMOP) provides technical and information resources to increase landfill gas capture and use

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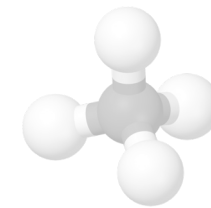
## Reduce food waste from landfills

- USDA and EPA set a national goal to reduce food loss and waste by 50 percent by 2030

U.S. Methane Emissions by Source, 2020



# Landfill Sector Progress



✓ **Toolkit for Expiring Landfill Gas Electricity Power Purchase Agreements**

✓ **“Environmental Impacts of Food Waste” report**

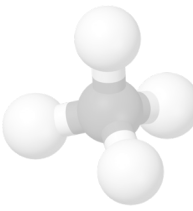
✓ **Federal interagency collaboration on food waste**

✓ **Collaboration in the international space through the Global Methane Initiative and Climate and Clean Air Coalition**



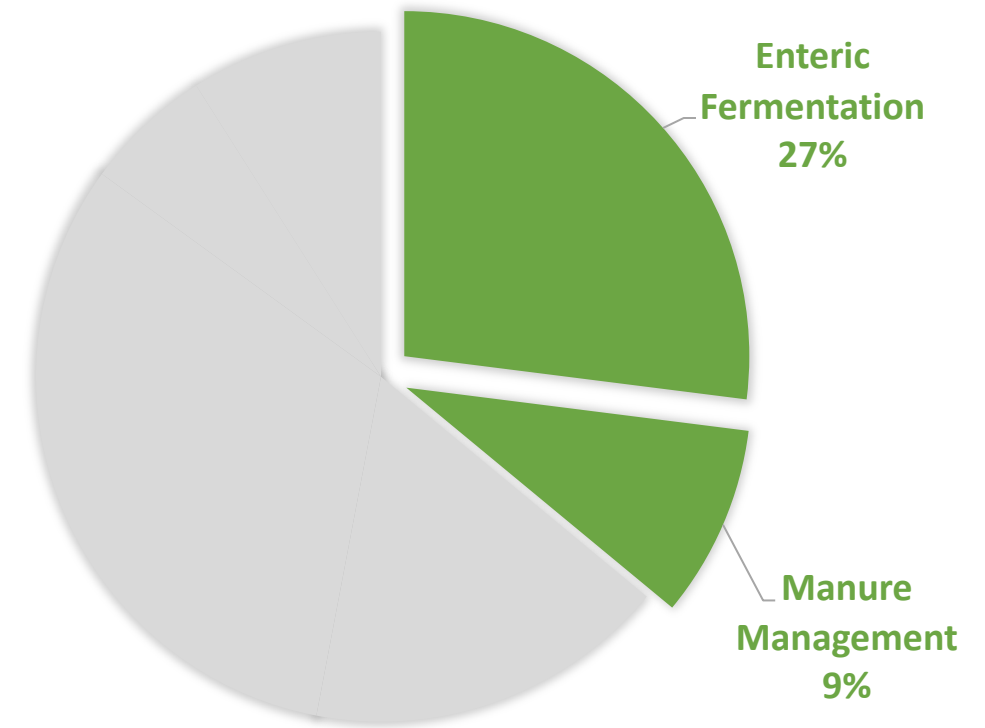


# Agriculture Sector Priorities

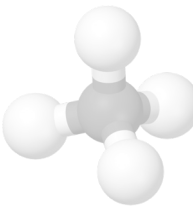


- 1 Adopt alternative manure management systems and other methane-reducing practices
- 2 Launch a Climate-Smart Partnership Initiative
- 3 Promote on-farm renewable energy from methane capture
- 4 Increase investments in agricultural methane measurement and innovations

U.S. Methane Emissions by Source, 2020



# Agriculture Sector Progress



**USDA progress report on climate-smart agriculture**

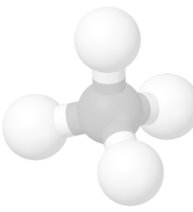
**USDA \$1B to climate-smart commodities**

**Collaboration in the international space through the Global Methane Initiative and Climate and Clean Air Coalition**





# Cross-cutting Progress in the Biogas Sector (Landfills and Agriculture)

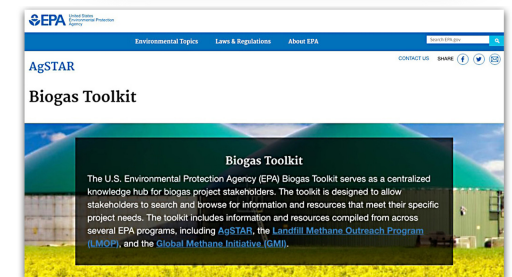
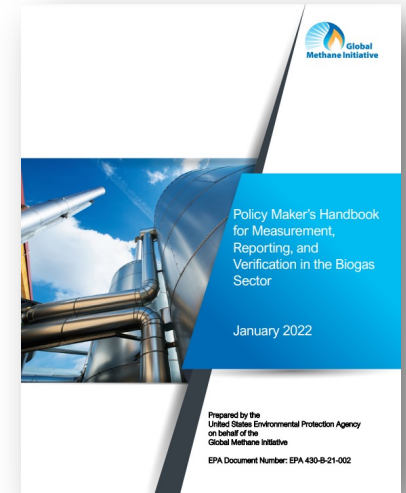


**EPA, on behalf of the Global Methane Initiative, is developing tools and resources to support methane mitigation across the entire biogas sector.**

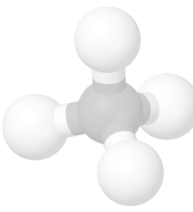
**Policy Maker's Handbook for Measurement, Reporting, and Verification in the Biogas Sector.** Includes the agriculture, municipal solid waste, and wastewater sectors.

## **Biogas Toolkit**

- Solid Waste Emissions Estimation tool (SWEET)
- Landfill Gas (LFG) Screening tool
- Anaerobic Digestion (AD) Screening tool, handbook, and operator guidebook
- Risk analysis checklist for AD projects
- OrganEcs cost estimating tool for managing source-separated organic waste



# Cross-Sector Support for Global Methane Pledge Commitments



**EPA, on behalf of the Global Methane Initiative, is a supporter of the Global Methane Pledge**, an agreement signed by over 100 countries to collectively reduce global methane emissions by 30 percent from 2020 levels by 2030.

**Global  
Methane  
Pledge**



**National Policymaker Framework for addressing methane emissions (in development)**



**Methane Emissions Reduction MRV Resource Center (in development)**



**Bi-lateral engagement with key countries**





# Thank you!

**Save the Date!**  
**Global Methane Forum**

Washington, DC  
September 2022

More information:  
[www.globalmethane.org](http://www.globalmethane.org)

## **Contact Info:**

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Learn more:  
<https://www.whitehouse.gov/wp-content/uploads/2021/11/US-Methane-Emissions-Reduction-Action-Plan-1.pdf>