

COP29: Satellites Detect Methane Leaks, Ignored by 'Super-Emitters'

Description

Spotting Methane Emissions

The world can now detect methane emissions, a major cause of global warming, using satellites. However, a recent report at COP29 revealed that when notified about leaks, many methane "super-emitters" don't take action.

Many countries and big oil companies have promised to reduce methane emissions, as it is the second most important greenhouse gas after carbon dioxide. Satellites are now helping to detect leaks from sources like oil and gas facilities and coal mines.

Despite alerts about large methane plumes, only a small percentage of emitters have acted to control leaks. Reasons for this could be a lack of resources or difficulty in fixing the leaks.

At the COP29 meeting, discussions on methane emissions are ongoing. Countries are taking steps to reduce methane, but challenges remain in holding emitters accountable for their emissions.

Vocabulary List:

- Methane /'mεθein/ (noun): A colorless odorless gas that is a major greenhouse gas and a source of global warming.
- 2. Emissions /I'mIJanz/ (noun): Gases released into the atmosphere often as a result of human activity.
- 3. **Super-emitters** /'su:.pər I'mItərz/ (noun): Entities or sources that release a disproportionately large amount of emissions.
- 4. Accountable /ə'kauntəbl/ (adjective): Responsible for actions and decisions often regarding emissions control.
- 5. **Challenges** /'tʃælɪndʒɪz/ (noun): Difficulties or obstacles that hinder progress toward reducing emissions.
- 6. Leaks /li:ks/ (noun): Unintentional releases of gas or liquid from a container or infrastructure.

Comprehension Questions

Multiple Choice

1. What is one method being used to detect methane emissions?



Option: Ground sensors Option: Satellites Option: Weather balloons Option: Air quality monitors

2. Why have many countries and big oil companies promised to reduce methane emissions?

Option: It is a primary cause of acid rain Option: It is the most common air pollutant Option: It is the second most important greenhouse gas after CO2 Option: It is used as a renewable energy source

3. What is a significant challenge mentioned in controlling methane leaks?

Option: Lack of available technology Option: Political opposition Option: Resistance from environmental groups Option: Difficulty in fixing leaks

4. What is mentioned as a reason why only a small percentage of emitters have acted to control leaks?

Option: Lack of awareness about emissions Option: High cost of mitigation Option: Limited detection methods Option: Lack of resources or difficulty in fixing leaks

5. What is one source mentioned as being monitored for methane leaks?

Option: Nuclear power plants Option: Oil and gas facilities Option: Solar farms Option: Hydropower plants

6. What was the focus of discussions at the COP29 meeting regarding methane emissions?

Option: Carbon offset programs Option: Renewable energy targets Option: Reducing methane leakage Option: Waste management issues

True-False

7. Satellites are not currently used to detect methane emissions.



8. The recent report at COP29 revealed that all "super-emitters" take immediate action when notified about leaks.

9. Methane is the most important greenhouse gas after carbon monoxide.

10. Countries and big oil companies have shown no interest in reducing methane emissions.

11. Challenges in controlling methane leaks include resistance from environmental groups.

12. Countries are not taking any steps to reduce methane emissions according to the COP29 meeting.

Gap-Fill

13. Despite alerts about large methane plumes, only a	percentage of emitters
have acted to control leaks.	
14. Reasons for the lack of action on methane leaks could be a lack of resources	s or
in fixing the leaks.	
15. Satellites are now helping to detect leaks from sources like oil and gas	and
coal mines.	
16. Challenges remain in holding emitters accountable for their	·
17. At the COP29 meeting, discussions on methane emissions are ongoing, with	the focus on reducing
methane	
18. Methane emissions are a major cause of warming.	

Answer

Multiple Choice: 1. Satellites 2. It is the second most important greenhouse gas after CO2 3. Difficulty in fixing leaks 4. Lack of resources or difficulty in fixing leaks 5. Oil and gas facilities 6. Reducing methane leakage

True-False: 7. False 8. False 9. False 10. False 11. False 12. False **Gap-Fill:** 13. small 14. difficulty 15. facilities 16. emissions 17. leakage 18. global



Vocabulary quizzes

Multiple Choice (Select the Correct answer for each question.)

1. What is a common dietary supplement used to enhance athletic performance?

Option: Protein Option: Creatine Option: Vitamin C Option: Iron

2. High levels of which substance in the blood can increase the risk of heart disease?

Option: Calcium Option: Cholesterol Option: Magnesium Option: Potassium

3. Which greenhouse gas is primarily produced by livestock farming and decomposition of organic matter?

Option: Carbon Dioxide Option: Ozone Option: Methane Option: Nitrous Oxide

4. Which term describes a situation where a single company or group owns all or nearly all of the market for a product or service?

Option: Monarchy Option: Competition Option: Oligopoly Option: Monopoly

5. Which term means to help or assist someone or something?

Option: Abandon Option: Support Option: Undermine Option: Ignore

6. Which term refers to the presence in or introduction into the environment of a substance or thing that has harmful or poisonous effects?

Option: Environmentalism Option: Pollution



Option: Conservation Option: Sustainability

7. What type of organizational structure distributes decision-making powers to a local level?

Option: Centralized Option: Hierarchical Option: Decentralized Option: Vertical

8. Which field involves the activities associated with governance of a country or area?

Option: Science Option: Politics Option: Economics Option: Technology

9. Which term describes being responsible for something or obligated to report explain or justify actions?

Option: Negligent Option: Accountable Option: Irresponsible Option: Unreliable

10. Which term means to keep safe from harm injury or destruction?

Option: Expose Option: Protect Option: Endanger Option: Vulnerable

Gap-Fill (Fill in the blanks with the correct word from the vocabulary list.)



common goal.

17. A is a person who suffers harm or injury as a result of a wrongful a
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- 18. The ______ of a product can be influenced by various marketing strategies.
- 19. Celebrities often have a significant ______ on their followers.
- 20. Engaging in ______ practices can lead to conflicts of interest.

Matching Sentences (Match each definition to the correct word from the vocabulary list.)

21. Lack of adequate water intake can lead to the condition of .
22. One of the goals of environmentalists is to natural habitats and wildlife.
23. The average weather conditions prevailing in an area over a long period is known as the .
24. Unsubstantiated can harm a person's reputation.
25. The earthquake caused a disruption to the region displacing thousands of people.
26. Friends and family often provide emotional during challenging times.
27. Efforts to historical landmarks ensure they are maintained for future generations.
28. Reducing carbon is essential for combating climate change.
29. plays a significant role in shaping government policies and decision-making processes.
30. Antitrust laws aim to prevent the formation of in the marketplace.

Answer

Multiple Choice: 1. Creatine 2. Cholesterol 3. Methane 4. Monopoly 5. Support 6. Pollution 7. Decentralized 8. Politics 9. Accountable 10. Protect

Gap-Fill: 11. Elderly 12. Super-emitters 13. Lawsuit 14. Challenges 15. Leaks 16. Partnership 17. Victim 18. Popularity 19. Influence 20. Self-dealing

Matching sentence: 1. Dehydration 2. Protect 3. Climate 4. Accusations 5. Massive 6. Support 7. Preserve 8. Emissions 9. Politics 10. Monopoly



CATEGORY

1. Sci/Tech - LEVEL2

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