



Record-breaking CO2 emissions due to drought, fires, and fossil fuels.

Description

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Wildfires in the tropics drove some increase in CO2 emissions but the bulk was driven by burning fossil fuels

In 2024, carbon dioxide emissions from burning fossil fuels are expected to surpass previous record levels. This disappointing trend means that efforts to curb these emissions and combat climate change are more crucial than ever. Pierre Friedlingstein from the University of Exeter emphasizes the urgent need to significantly reduce fossil fuel emissions to tackle this global challenge.

The latest Global Carbon Budget report, presented at the COP29 summit in Azerbaijan, highlights that human-caused CO2 emissions are projected to reach a record 41.6 gigatonnes this year, with a notable increase driven by the burning of fossil fuels. The report also reveals a slower growth rate in fossil fuel emissions compared to the previous year but stresses that further reductions are essential.

Additionally, the report identifies factors contributing to the rise in emissions, such as drought-induced wildfires in the tropics and a decline in the carbon land sink, which typically absorbs a significant portion of CO2 emissions. While challenges persist, experts underscore the importance of transitioning to renewable energy to combat climate change effectively.

The report predicts that without significant action, the world will exceed its carbon budget for limiting global warming within the next few decades, highlighting the critical need for accelerated efforts to address this pressing issue.

Vocabulary List:

1. **Emissions** /ɪ'mɪʃənz/ (noun): The act of releasing something especially gas or radiation.
2. **Climate** /'klaɪmət/ (noun): The long-term pattern of weather in a particular area.
3. **Fossil Fuels** /'fɒsəl fyuelz/ (noun): Natural fuels such as coal or gas formed from the remains of living organisms.
4. **Transitioning** /træn'zɪʃənɪŋ/ (verb): The process of changing from one state or condition to another.
5. **Urgent** /'ɜrdʒənt/ (adjective): Requiring immediate action or attention.
6. **Drought** /draʊt/ (noun): A prolonged dry period in the natural climate cycle that can occur anywhere in the world.

Comprehension Questions

Multiple Choice

1. What is driving the bulk of the increase in CO2 emissions in 2024?

Option: Drought-induced wildfires in the tropics



- Option: Burning of fossil fuels
- Option: Decline in the carbon land sink
- Option: Transition to renewable energy

2. Who emphasizes the urgent need to significantly reduce fossil fuel emissions?

- Option: Pierre Friedlingstein
- Option: Experts from COP29 summit
- Option: University of Exeter researchers
- Option: Wildfire specialists

3. What factor is NOT mentioned as contributing to the rise in CO2 emissions?

- Option: Drought-induced wildfires
- Option: Decline in the carbon land sink
- Option: Increase in renewable energy usage
- Option: Burning of fossil fuels

4. What did the latest Global Carbon Budget report reveal about fossil fuel emissions in 2024 compared to the previous year?

- Option: Faster growth rate
- Option: Slower growth rate
- Option: No change in growth rate
- Option: Slight decrease in emissions

5. What is the critical need identified in the report for addressing the rise in emissions?

- Option: Implementing carbon pricing policies
- Option: Transitioning to hybrid vehicles
- Option: Accelerated efforts to reduce emissions
- Option: Building more coal power plants

6. According to the report, what will happen if significant action is not taken to reduce emissions?

- Option: Exceed carbon budget for limiting global warming
- Option: Reach a sustainable level of emissions
- Option: Achieve carbon neutrality by 2030
- Option: Carbon footprint will decrease naturally

True-False

7. Efforts to curb CO2 emissions are less crucial than before.



8. The burning of fossil fuels is a key driver of the increase in CO2 emissions in 2024.
9. The carbon land sink is absorbing more CO2 emissions than before.
10. Experts recommend sticking to fossil fuels to combat climate change effectively.
11. The world is on track to meet its carbon budget for limiting global warming.
12. Transitioning to renewable energy is not mentioned as a solution in the report.

Gap-Fill

14. The report predicts that without significant action, the world will exceed its carbon budget for limiting global warming within the next few decades, highlighting the critical need for _____ to address this pressing issue.
15. In 2024, _____ emissions from burning fossil fuels are expected to surpass previous record levels.
16. _____ underscores the importance of transitioning to renewable energy to combat climate change effectively.
17. The critical need for _____ to reduce emissions is identified in the report.
18. Experts highlight the importance of transitioning to _____ to combat climate change effectively.

Answer

Multiple Choice: 1. Burning of fossil fuels 2. Pierre Friedlingstein 3. Increase in renewable energy usage 4. Slower growth rate 5. Accelerated efforts to reduce emissions 6. Exceed carbon budget for limiting global warming

True-False: 7. False 8. True 9. False 10. False 11. False 12. False

Gap-Fill: 14. accelerated efforts 15. carbon dioxide 16. Experts 18. renewable energy



Vocabulary quizzes

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

1. What refers to the gases released into the atmosphere as a result of human activities?
Option: Fossil Fuels
Option: Emissions
Option: Drought
Option: Chimpanzees
2. What digital currency uses cryptography for security and operates independently of a central bank?
Option: Numerical
Option: Cryptocurrency
Option: Impacting
Option: Cuneiform
3. What are specific rules and guidelines that must be followed for a particular process or technology?
Option: Dynamics
Option: Cryptocurrency
Option: Initiative
Option: Protocols
4. Which species of apes are known for their high level of intelligence and use of tools?
Option: Cryptocurrency
Option: Chimpanzees
Option: Decentralized
Option: Artifacts
5. What policy involves reducing or eliminating government regulations on industries?
Option: Optimism
Option: Deregulation
Option: Impacting
Option: Compliance
6. What process involves putting a decision plan or law into effect?
Option: Audience
Option: Surge
Option: Implementing
Option: Exposure
7. What term describes the capability or possibility for future growth or success?



- Option: Restricting
- Option: Potential
- Option: Emissions
- Option: Chimanzees

8. What verb describes the effect or influence something has on its surroundings?

- Option: Cryptocurrency
- Option: Impacting
- Option: Transitioning
- Option: Dynamics

9. What term refers to the act of adhering to specific laws regulations or standards?

- Option: Cryptocurrency
- Option: Compliance
- Option: Drought
- Option: Symbols

10. What term refers to the forces or properties that stimulate growth development or change?

- Option: Chimpanzees
- Option: Impacting
- Option: Dynamics
- Option: Decentralized

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

- 11. Many countries are _____ to renewable energy sources to combat climate change.
- 12. The need to address climate change is extremely _____.
- 13. There has been a _____ in interest in sustainable investing.
- 14. Despite the challenges there is a sense of _____ about the future.
- 15. Increased _____ to air pollution can have serious health implications.
- 16. Some countries are considering _____ the use of single-use plastics.
- 17. Community clean-up drives are a great _____ to involve citizens in environmental conservation.



18. Blockchain technology operates on a _____ network rather than a central server.
19. Archaeologists uncovered ancient _____ that shed light on early human civilizations.
20. The project required a _____ effort from multiple departments to succeed.

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

21. These sources of energy such as coal and oil are non-renewable and contribute to greenhouse gas emissions.
22. Mathematical values or quantities that involve numbers or numerical representations.
23. One of the earliest forms of writing consisting of wedge-shaped symbols pressed into clay tablets.
24. The precursor to cuneiform script characterized by simpler pictorial representations.
25. Representations that stand for or suggest something else often with a deeper meaning.
26. The group of people targeted by a message performance or communication.
27. The capacity to have an effect on the character development or behavior of someone or something.
28. The action of putting a decision plan or law into effect or action.
29. Specific rules guidelines or agreements that must be followed for a particular process or technology.
30. The forces or properties that stimulate growth development or change within a system or situation.

Answer

Multiple Choice: 1. Emissions 2. Cryptocurrency 3. Protocols 4. Chimpanzees 5. Deregulation 6. Implementing 7. Potential 8. Impacting 9. Compliance 10. Dynamics

Gap-Fill: 11. transitioning 12. urgent 13. surge 14. optimism 15. exposure 16. restricting 17. initiative 18. decentralized 19. artifacts 20. collaborative

Matching sentence: 1. Fossil Fuels 2. Numerical 3. Cuneiform 4. Proto-cuneiform 5. Symbols 6. Audience 7. Influence 8. Implementing 9. Protocols 10. Dynamics

CATEGORY

1. Sci/Tech - LEVEL3

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