



Department of Energy

QUIZ: Test Your Climate Change IQ

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Quiz: Test Your Climate IQ

Climate change is one of the most urgent environmental challenges of our time. But how much do you know about it? Test your knowledge with this quiz!

1. How does the greenhouse effect work?





Greenhouse gases reflect the sun's energy, causing it to warm the Earth.

Greenhouse gases absorb the sun's energy, slowing or preventing heat from escaping into space.

Greenhouse gases directly warm oceans and cause dramatic weather.

Oceans absorb greenhouse gases, which cause the Earth's temperature to rise.

2. What is the most potent greenhouse gas?



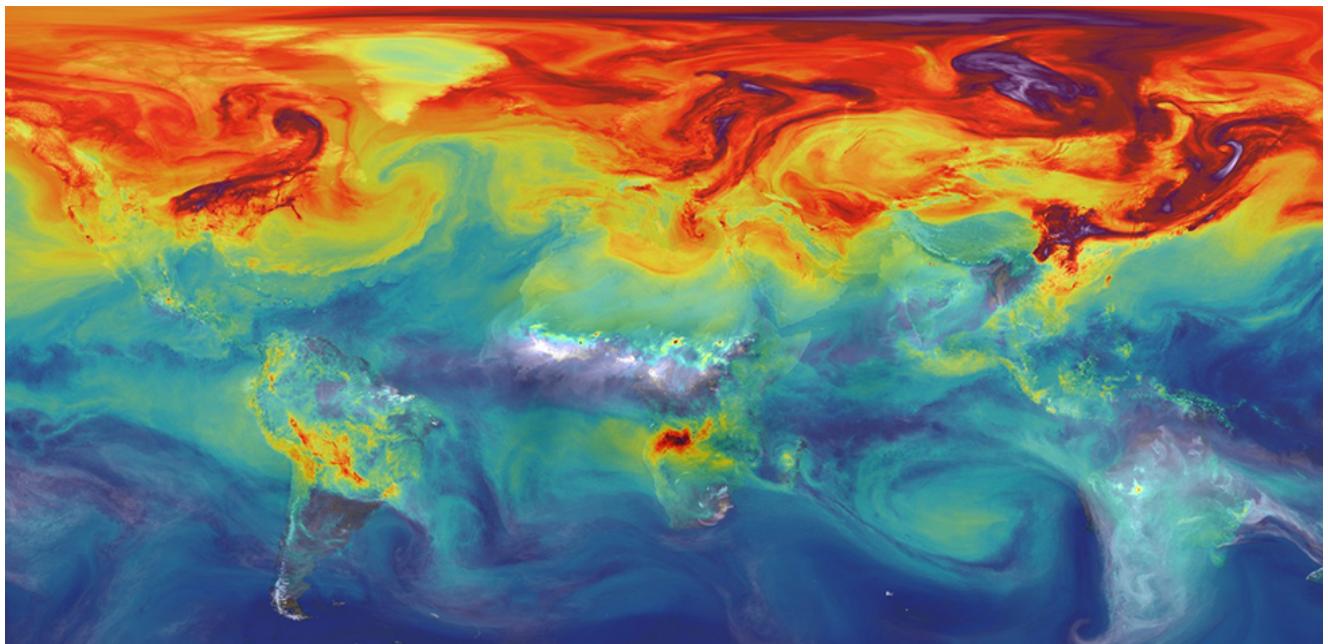
Fluorinated gases

Carbon dioxide

Nitrous oxide

Methane

3. How much have global average temperatures increased in the last century?



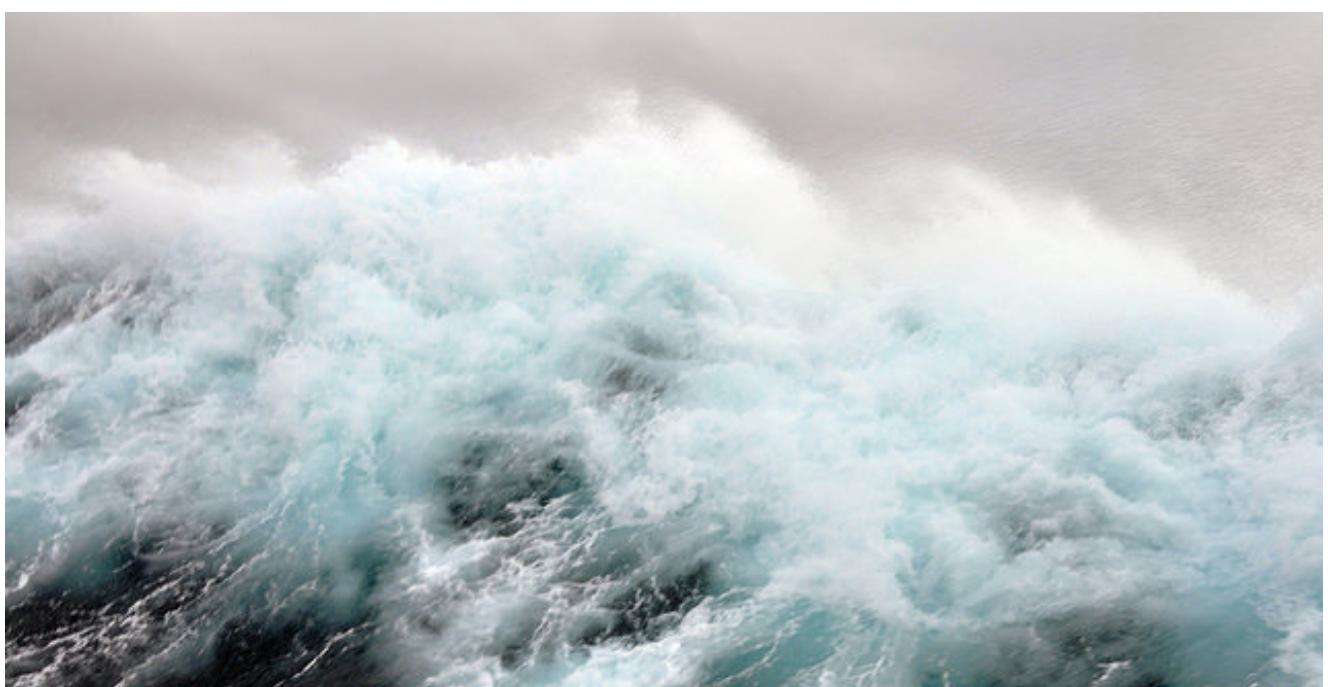
2.1 degrees Fahrenheit

0.6 degrees Fahrenheit

4.3 degrees Fahrenheit

1.4 degrees Fahrenheit

4. How much have sea levels risen in the past 100 years?





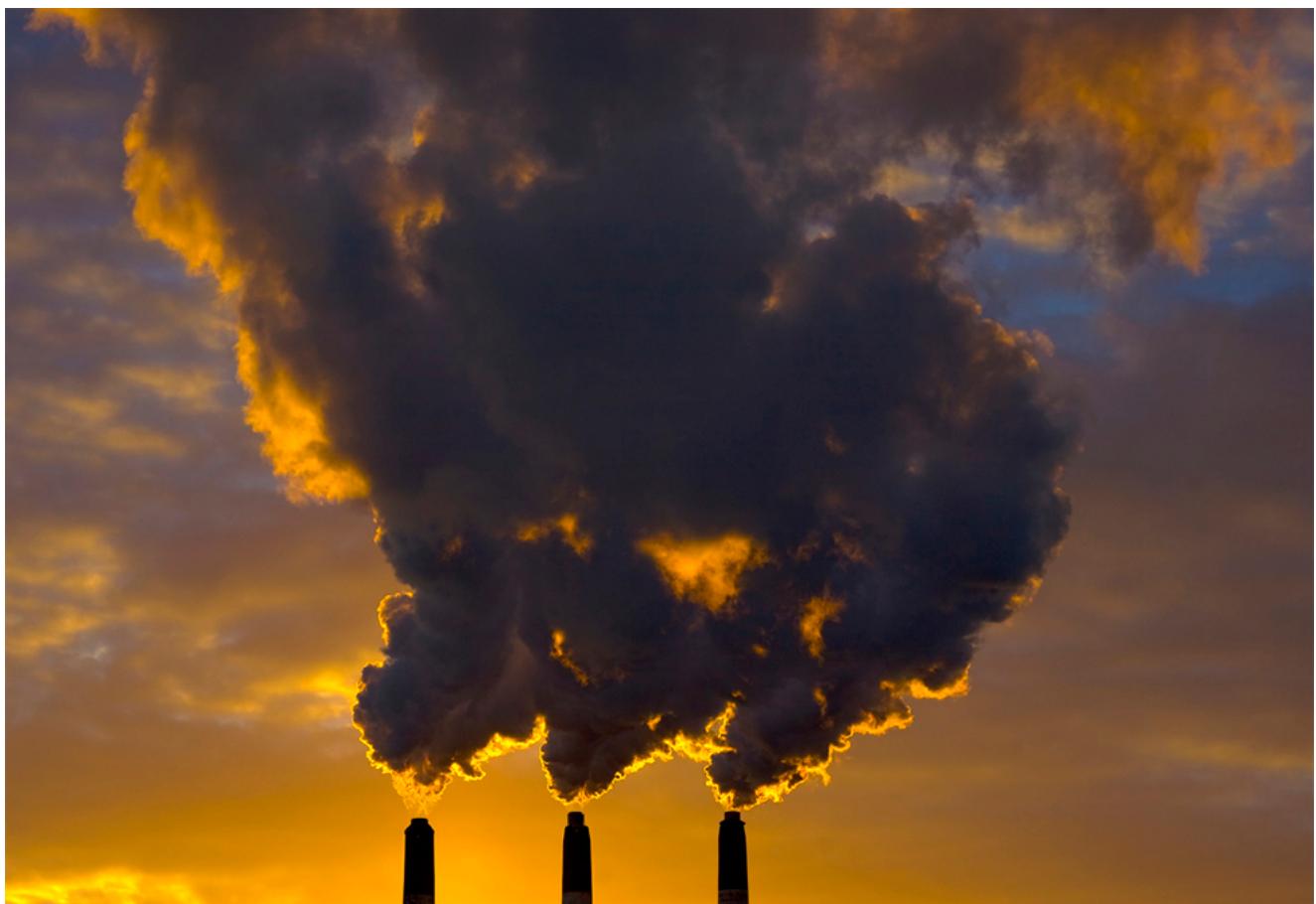
7 inches

2 inches

5 inches

16 inches

5. How much have carbon dioxide emissions changed in the United States since 2006?



Increased 560 million metric tons

Dropped 480 million metric tons

Increased 230 million metric tons

Dropped 120 million metric tons

6. Which of these is considered a critical threshold for carbon dioxide levels in the atmosphere?



123 parts per million

250 parts per million

685 parts per million

400 parts per million

7. What is the biggest source of greenhouse gas emissions in the United States?





Farming, logging and manufacturing

Producing electricity

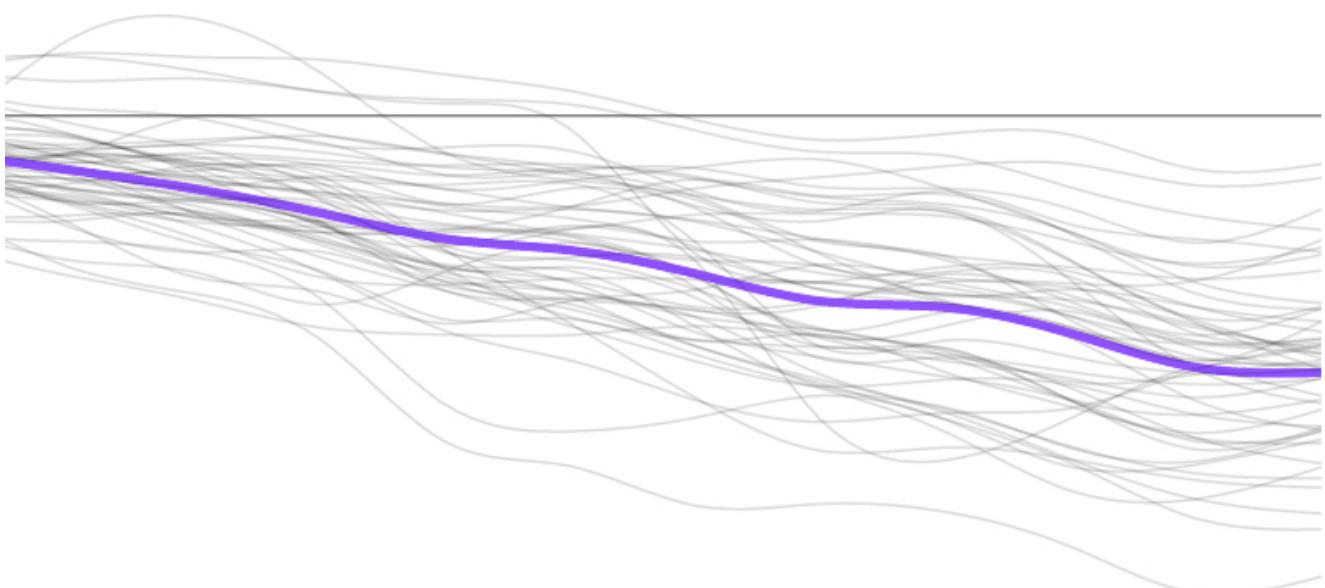
Heating and cooling buildings

Using transportation

8. What does carbon intensity measure?

[Energy Intensity](#) [Carbon Intensity](#) [About the Data](#)

US Average: -27.7%



Carbon dioxide produced per dollar of gross domestic product

Carbon dioxide produced per kilowatt hour

Carbon dioxide produced per electrical charge

Carbon dioxide produced per British thermal unit of energy

9. Which state has the highest energy-related carbon dioxide emissions per capita?



Florida

Wyoming

North Dakota

California

10. During the 2015 United Nations Climate Change Conference in Paris, how many countries committed to doubling clean energy research and development?



76

20

195

12

Your Score:

0 / 10

From shrinking glaciers to rising seas, climate change is threatening our planet in unprecedented ways. This urgent challenge will come into sharp focus as the world celebrates Earth Day this Friday, April 22. While the science is clear on climate change, how much do you know about it?

[Explore our climate change resources](#) and test your knowledge with our latest quiz. Also, check out [Energy.gov/EarthWeek](#) all week long, where we'll be highlighting stories and interactives about climate change and how clean energy technologies can help solve it.



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