



## Activity 12: The Great Debate: Is Burying Carbon the Solution to Climate Change?

*Is CCS a good way to deal with carbon?*

### Resources

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- **HowStuffWorks: How Carbon Capture Works**

<https://science.howstuffworks.com/environmental/green-science/carbon-capture.htm/printable>

- **Carbon Capture and Underground Storage**

<https://www3.epa.gov/climatechange/kids/solutions/technologies/ccs.html>

- **Wonderville Video: What to Do with CO<sub>2</sub>?** (Note: This resource requires parental permission.)

<https://wonderville.org/asset/whattodowithCO2>

- **Greenpeace report finds CCS is unproven, risky and expensive**

<https://www.greenpeace.org/archive-international/en/news/features/ccs-not-going-to-save-the-clim/>

### Instructions

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In this activity you will need to consider your opinion on this question:

**"Is CCS a good way to deal with carbon?"**

1. Read and view the Information Websites and Videos. The websites and videos have information on the potential benefits and drawbacks of CCS. As you visit the list of websites and videos, read or listen to all the information carefully. Keep track by making notes in your *P-M-I Debate Log*.

2. The *P-M-I Debate Log* has three columns:

- a. CCS: Positive Effects for Humans and Earth
- b. CCS: Negative Effects for Humans and Earth
- c. My position supported by facts

Add notes according to what you have learned from the websites.

3. Choose a position on the question, "Is CCS a good way to help humans and earth deal with carbon?"

4. What additional facts and support can you think of to contribute to this chart? Add this to your chart.

P-M-I-Debate Log

Question: Is CCS a good way to help humans and earth deal with carbon?

| CCS:<br>Positive Effects For<br>Humans and Earth | CCS:<br>Negative Effects For<br>Humans and Earth | CCS:<br>My Point of View<br>Supported by Facts |
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**Need a Hint?**

Consider the following questions; then, continue completing your P-M-I Debate Log.

1. How does carbon capture keep CO<sub>2</sub> (carbon dioxide) from getting into the atmosphere?
2. If carbon from factories and power plants is captured, where can it be put?
3. How much energy is needed to capture carbon?
4. Is carbon capture cheap or expensive?
5. Do we know what happens to carbon dioxide when it is stored underground? Are there any health or environmental risks to storing carbon dioxide?