



Researchers from West Virginia are at the forefront of developing carbon capture technology for a cleaner energy future

Description

New Rules Proposed for Coal and Gas Power Plants

The U.S. Environmental Protection Agency has suggested new rules for coal and natural gas power plants to significantly reduce carbon dioxide emissions by 2038. Congress allocated \$3.5 billion for carbon capture and storage projects last year, with some of the research taking place in West Virginia. Researchers at West Virginia University, led by Dr. Xingbo Liu, are at the forefront of this effort. They are exploring ways to capture and use carbon dioxide from power plants, even turning it into materials for medical purposes like cancer treatment. While some critics argue that carbon capture only prolongs the use of coal and natural gas, researchers at WVU are also investigating smaller-scale applications for cars and homes. However, the cost of such technology remains a challenge. The university is conducting multidisciplinary research to address these economic aspects of carbon capture.

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Vocabulary List:

1. **emissions** // (noun): Substances released into the air especially harmful gases.
2. **allocated** // (verb): To set apart or designate for a special purpose.
3. **forefront** // (noun): The position of greatest importance or advancement.
4. **critics** // (noun): People who provide negative feedback or judgments.
5. **prolongs** // (verb): Extends the duration or time of something.
6. **multidisciplinary** // (adjective): Involving expertise from multiple disciplines or fields.

Vocabulary quizzes

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

1. What are the basic building blocks of modern electronics?
Option: Silk
Option: Semiconductors
Option: Plastic
Option: Wood
2. What term refers to a country or organization having advanced technology compared to its rivals?
Option: Technological Mediocrity
Option: Technological Inferiority
Option: Technological Parity
Option: Technological Superiority
3. Which government regulations restrict the export of certain technologies for national security reasons?
Option: Free Trade Agreements
Option: Export Controls
Option: Import Policies
Option: Trade Embargo
4. What is the process of making products on a large scale using machinery and labor?
Option: Farming
Option: Manufacturing
Option: Construction
Option: Designing
5. Which abbreviation stands for "Audio-Visual"?
Option: Atmospheric Vehicle



- Option: Audio-Virtual
- Option: Animation Version
- Option: Audio-Visual

6. What genre typically involves futuristic or scientific elements?

- Option: Romance
- Option: Sci-fi
- Option: Comedy
- Option: Mystery

7. Which term describes the commitment to a task or purpose?

- Option: Indifference
- Option: Dedication
- Option: Apathy
- Option: Negligence

8. Which word best describes the quality of introducing new ideas or methods?

- Option: Conventional
- Option: Innovative
- Option: Predictable
- Option: Traditional

9. Which term refers to a Greek mythological sea god?

- Option: Triton
- Option: Poseidon
- Option: Neptune
- Option: Proteus

10. Which term describes actions involving physical force intended to harm or damage?

- Option: Calm
- Option: Violent
- Option: Peaceful
- Option: Gentle

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

11. Despite facing many challenges the team _____ in the end.

12. The path became _____ as they ventured deeper into the forest.

13. Resources were _____ effectively to ensure the project's success.



14. Regular exercise not only improves health but also _____ life expectancy.
15. Despite the movie's popularity it received mixed reviews from _____.
16. The magician's performance was so mesmerizing that it managed to _____ the entire audience.
17. Reducing carbon _____ is crucial for combating climate change.
18. Their company is at the _____ of technological innovation in the industry.
19. The film cleverly played with traditional _____ of the horror genre.
20. The conference room was equipped with advanced audio-_____ technology.

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

21. Despite numerous setbacks the team emerged victorious and in the end.
22. Her unwavering to her craft is evident in the quality of her work.
23. His deep for music has been the driving force behind his successful career.
24. The research project required a approach involving experts from various fields.
25. In Greek mythology the sea god could change his form at will.
26. The of the circle is the distance from its center to any point on its circumference.
27. Modern electronics rely heavily on the properties of for various applications.
28. Maintaining is crucial in the ever-evolving world of military technology.
29. The sci-fi has evolved significantly over the decades incorporating new ideas and themes.
30. The actor's powerful performance managed to the audience's attention throughout the play.

Answer

Multiple Choice: 1. Semiconductors 2. Technological Superiority 3. Export Controls 4. Manufacturing 5. Audio-Visual



6. Sci-fi 7. Dedication 8. Innovative 9. Proteus 10. Violent

Gap-Fill: 11. Triumphed 12. Narrow 13. Allocated 14. Prolongs 15. Critics 16. Captivate 17. Emissions
18. Forefront 19. Tropes 20. Visual

Matching sentence: 1. Triumphed 2. Dedication 3. Passion 4. Multidisciplinary 5. Proteus 6. Radius
7. Semiconductors 8. Technological Superiority 9. Genre 10. Captivate

CATEGORY

1. Sci/Tech - LEVEL1

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