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## China's Emissions May Have Peaked Amid Clean Energy Surge

### Description

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China is embracing solar power, with panels on the North Barren Mountain in Zhangjiakou

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In an impressive show of commitment to renewable energy, China has rapidly expanded its wind and solar power capabilities, suggesting that the country's carbon emissions may have peaked in 2023. This development, if confirmed, would mark a significant milestone in the global struggle against climate change.

Following a surge in CO2 emissions coinciding with economic recovery post-COVID, a recent analysis reveals that emissions remained stable from July to September 2024, hinting at a potential overall flatlining or slight reduction compared to 2023. Lauri Myllyvirta from the Centre for Research on Energy and Clean Air emphasizes that China's emissions have notably influenced global trends since the Paris Agreement.

China's pledge to curb its greenhouse gas emissions by 2030 and achieve net-zero by 2060 has drawn criticism for lacking ambition. Myllyvirta argues that achieving an earlier peak would allow for a swifter reduction in emissions, a crucial step in mitigating disastrous climate impacts.

As electricity demand continues to rise, propelled by societal advancements and extreme weather events, China is rapidly scaling its renewable energy infrastructure. Solar and wind power saw phenomenal growth, with solar generation increasing by 44% during the previous year.

Despite rising coal and gas use, a notable downturn in construction has led to a slight emissions offset. However, the path to consistent emission reductions remains uncertain, particularly in light of government stimuli that could elevate emissions in late 2024.

Topics:

## Vocabulary List:

- Emissions** /ɪ'mɪʃənz/ (noun): Pollutants released into the atmosphere.
- Renewable** /rɪ'nju:əbl/ (adjective): Energy sources that are replenished naturally.
- Milestone** /'maɪlstoʊn/ (noun): An important event or stage in a process.
- Mitigating** /'mɪtɪ,geɪtɪŋ/ (verb): Making something less severe or serious.
- Infrastructure** /'ɪnfra,strʌktʃər/ (noun): The basic physical systems of a country or organization.
- Phenomenal** /fə'nomənl/ (adjective): Remarkable or extraordinary.

## Vocabulary quizzes

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



1. Which term describes something innovative and pioneering?

- Option: Artificial
- Option: Groundbreaking
- Option: Enhancing
- Option: Artificial

2. What term describes a material that allows light to pass through but diffuses it?

- Option: Translucent
- Option: Renewable
- Option: Emissions
- Option: Infrastructure

3. Which term refers to introducing new ideas or methods?

- Option: Innovative
- Option: Mitigating
- Option: Associated
- Option: Verification

4. Which term means connected or related to something?

- Option: Phenomenal
- Option: Biological
- Option: Artificial
- Option: Associated

5. What term describes an energy source that is not depleted when used?

- Option: Simulate
- Option: Renewable
- Option: Genesis
- Option: Gleaned

6. Which term is related to living organisms and their functions?

- Option: Biological
- Option: Detection
- Option: Confluence
- Option: Compounds

7. What term refers to substances formed from two or more elements?

- Option: Transformation
- Option: Delineates
- Option: Compounds
- Option: Emissions

8. Which term describes the origin or mode of formation of something?

- Option: Infrastructure
- Option: Genesis
- Option: Confluence
- Option: Ancestry

9. What term refers to the basic physical and organizational structures needed for a society or enterprise to function?

- Option: Chronicles
- Option: Mitigating
- Option: Translucent
- Option: Infrastructure

10. What term is used to describe substances released into the air especially by cars and factories?

- Option: Associated
- Option: Groundbreaking
- Option: Emissions
- Option: Artificial

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

11. The invention of the smartphone truly \_\_\_\_\_ the way we communicate.

12. Regular exercise plays a key role in \_\_\_\_\_ your overall health.

13. The intelligence displayed by the chess-playing computer was completely \_\_\_\_\_.

14. Planting trees is one way of \_\_\_\_\_ the effects of climate change.

15. The team's performance in the championship was truly \_\_\_\_\_.

16. The book \_\_\_\_\_ the life of a young girl growing up in wartime.

17. The security system \_\_\_\_\_ unauthorized access to the building.

18. The report clearly \_\_\_\_\_ the key findings of the research.

19. From the data collected the researchers \_\_\_\_\_ valuable insights into consumer behavior.



20. The city is located at the \_\_\_\_\_ of two major rivers.

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

21. The new technology is the way we approach healthcare.

22. The sudden increase in sales was a that surprised everyone.

23. Economic growth and employment rates are important of a country's development.

24. The issue of climate change is highly with strong arguments on both sides.

25. Solar and wind energy are examples of energy sources.

26. Graduating from college was a significant in her life.

27. Planting trees is one way of the effects of climate change.

28. The symptoms are often with the onset of the disease.

29. The authenticity of the document requires careful .

30. Learning about her family's helped her understand her cultural background.

## Answer

**Multiple Choice:** 1. Groundbreaking 2. Translucent 3. Innovative 4. Associated 5. Renewable 6. Biological 7. Compounds 8. Genesis 9. Infrastructure 10. Emissions

**Gap-Fill:** 11. revolutionized 12. enhancing 13. artificial 14. mitigating 15. phenomenal 16. chronicles 17. detected 18. delineates 19. gleaned 20. confluence

**Matching sentence:** 1. revolutionizing 2. phenomenon 3. indicators 4. contentious 5. renewable 6. milestone 7. mitigating 8. associated 9. verification 10. ancestry

## CATEGORY

1. Sci/Tech - LEVEL4

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