

Global Carbon project

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Why in news?

Global Carbon Project report, 2019 has been released.

What is it?

- The Global Carbon Project is an **international research project within the Future Earth research initiative on global sustainability.**
- It aims to develop a comprehensive picture of the global carbon cycle, including both its biophysical and human dimensions together.
- The Global Carbon Budget 2019 is the **14th edition of the annual update that started in 2006.**

Highlights:

- The report shows a **continued increase in carbon dioxide (CO₂) emission** from burning fossil fuels by 0.6 per cent.
- The **rate was dropped by 1.5 per cent in 2017 and 2.1 per cent in 2018.**
- The lower growth rate is **due to:**
 - The decline in coal use in Europe (-10%) and USA (-10.5%),
 - a slowdown in coal use in China and India,
 - weaker economic growth globally, in particular in China and India,
 - a strong monsoon season in India, which increased the productivity of hydroelectric power
- This decrease is offset by a **strong emission growth from natural gas use at 2.6% in 2019** as it has become a preferred alternative source of energy to coal in every region of the world.
- While **coal (42%) and oil (34%) usages are still**

dominated sources of CO₂ emission over the last decade compared to natural gas (19%).

- **Deforestation fires** around the world have also contributed to the rise of emission.
- The total CO₂ emissions from human activities, which includes emission of burning fossil fuels and land-use change, are set to reach 43.1 billion ton in 2019.
- The **10 biggest emitters in 2018** are *China, U.S., India, Russia, Japan, Germany, Iran, Saudi Arabia, South Korea, and Canada.*
- The **EU as a region of countries ranks third.**