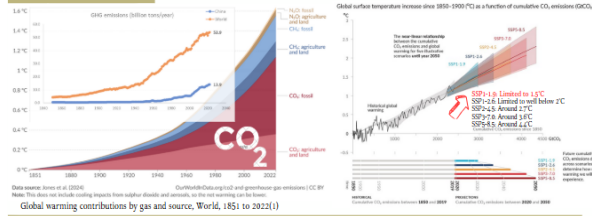
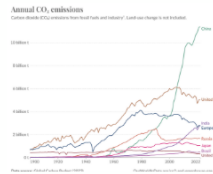


GLOBAL CONTEXTS



Regional Context- CHINA

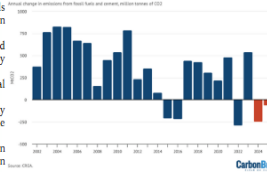


Position | Impacts | Activities | Outcomes

- P: Heavy reliance on coal, 31% of global greenhouse gas emissions (2022).
- I: Carbon emissions have a long-term adverse impact on residents' health (air in carbon emission adds 0.295% more outpatients and 0.162% more inpatients).
- A: Unabated climate change could lead to estimated GDP losses of between 0.5 and 2.3 percent for China as early as 2030.
- O: A Transition to renewable energy (Solar & wind) from fossil fuels.
- O: China established the world's largest carbon markets trading pilots, primarily targeting the coal power sector. (ETS: EU, C80/C02 and China: S81/C02)
- O: FT-203 Solar, wind, hydro, and nuclear capacity installation generated an estimated 425 terawatt hours (TWh) per year, equal to the total electricity consumption in China.
- O: The implementation of the carbon emission trading system in China yielded has 136% increase in economic returns.

Initiatives, Suggestions & Prediction

- China has implemented a "1+N" policy framework to achieve its goals of peaking carbon emissions before 2030 and reaching carbon neutrality before 2060.
- The Paris Agreement 2015; China's updated NDC in 2021 included more ambitious targets, such as a 65% reduction in CO2 intensity by 2030 compared to 2005 levels.
- Strengthen policy coordination and implementation at the provincial and local level.
- Reduce personal carbon footprint through actions like energy efficiency, renewable energy use, sustainable transportation, and waste reduction in homes, schools, and communities.
- Increase investment in clean energy and research & innovation in green technologies such as hydrogen and carbon capture, utilization and storage (CCUS).
- China's carbon dioxide (CO2) emissions are projected to fall in 2024 and could be facing structural decline, due to rapid growth in the installation of new low-carbon energy sources such as solar, wind, Nuclear & Hydropower.



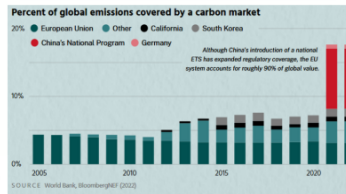
GREENPEACE

Under Gensepeace East Asia's pressure, Hyundai and Kia accelerated their **European internal combustion engine (ICE)** phase-out from **2040 to 2035**. They committed to ending ICE Vehicles in **China, South Korea**, and the US by 2040, while moving up their carbon neutrality target to **2045 from 2050**. **Hyundai** shut down its **South Korean** powertrain engine development department and shifted focus to a battery development center.

Environmental Defense Fund(EDF)

EDF drives global methane reduction through research and advocacy, deploying a methane-tracking satellite.
Goal: Cut global methane emissions from energy and agriculture by 30% below 2020 levels by 2030.

Carbon markets are trading schemes that provide financial incentives for climate change mitigation. In these schemes, greenhouse gas emission reductions and/or removals are quantified into carbon credits that can be bought and sold, with the aim of transitioning economies to Net-Zero by mid-century (UNDP).



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