

## ***Unearthing The Environmental Impact Of Human Activity: A Global CO<sub>2</sub> Emission Analysis***

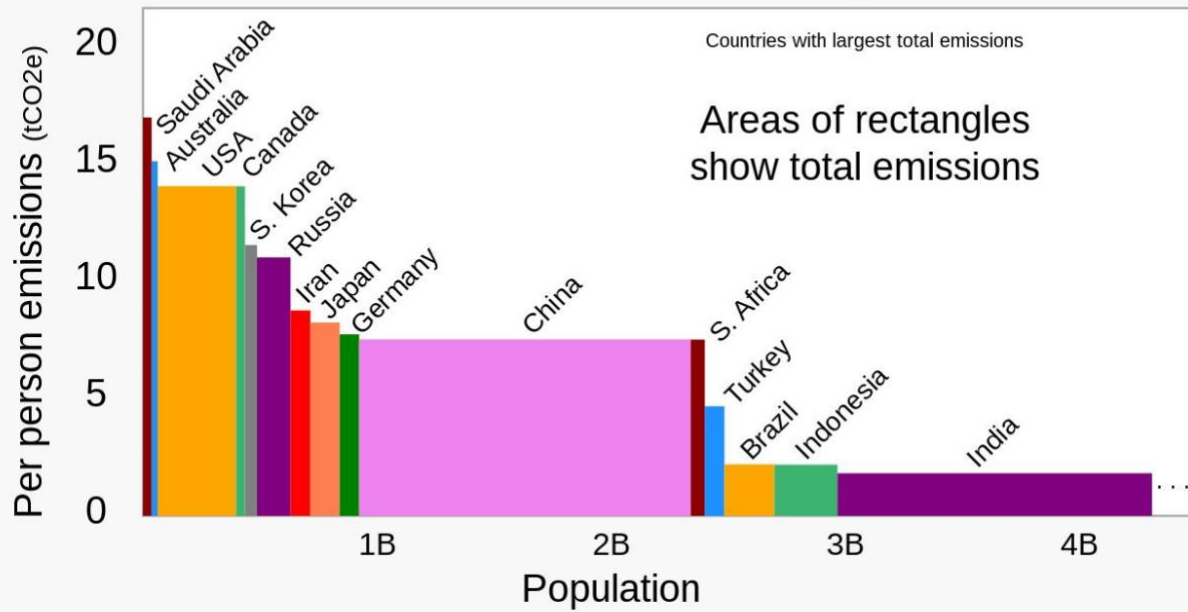
### ***Define Co<sub>2</sub>***

*Carbon dioxide (CO<sub>2</sub>) is an important heat-trapping gas, or greenhouse gas, that comes from the extraction and burning of fossil fuels (such as coal, oil, and natural gas), from wildfires, and from natural processes like volcanic eruptions. The first graph shows atmospheric CO<sub>2</sub> levels measured at Mauna Loa Observatory, Hawaii, in recent years, with natural, seasonal changes removed. The second graph shows CO<sub>2</sub> levels during Earth's last three glacial cycles, as captured by air bubbles trapped in ice sheets and glaciers.*

### ***Define Co<sub>2</sub> Emissions***

*Carbon dioxide enters the atmosphere through burning fossil fuels (coal, natural gas, and oil), solid waste, trees and other biological materials, and also as a result of certain chemical reactions (e.g., cement production).*

## Carbon dioxide emissions per person



## UNEARTHING THE ENVIRONMENTAL IMPACT OF HUMAN ACTIVITY; A GLOBAL CO2 EMISSION ANALYSIS

Switch to green energy

Oceans provide the greatest annual amount of CO<sub>2</sub>

Carbon dioxide is an important green house gas that helps to trap heat in our atmosphere

Greenhouse gas emission can be reduced by making power on-site with renewable resources

Turn of lights and unplug devices when your not using them

Removing carbon from the atmosphere are tree planting forest restoration

Combustion of fossil fuels makes the environment more acidic

Co<sub>2</sub> in the atmosphere warms the planet causing climate change

Green plants grow faster with more Co<sub>2</sub>

Reducing greenhouse gas emissions can improve air quantity and save lives

Direct emissions are produced by burning fuel for power or heat

Co<sub>2</sub> growth in 2022 was well below global GDP growth of 3.2%

Exposure to Co<sub>2</sub> can produce a variety of health effects

Ice caps to melt and ocean to warm, causing sea levels to rise

By adding more Co<sub>2</sub> to the atmosphere, people are super charging the natural greenhouse effect

Without Co<sub>2</sub>, earth's natural greenhouse effect would be too weak to keep the average global temperature