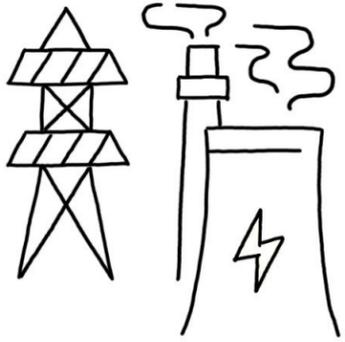
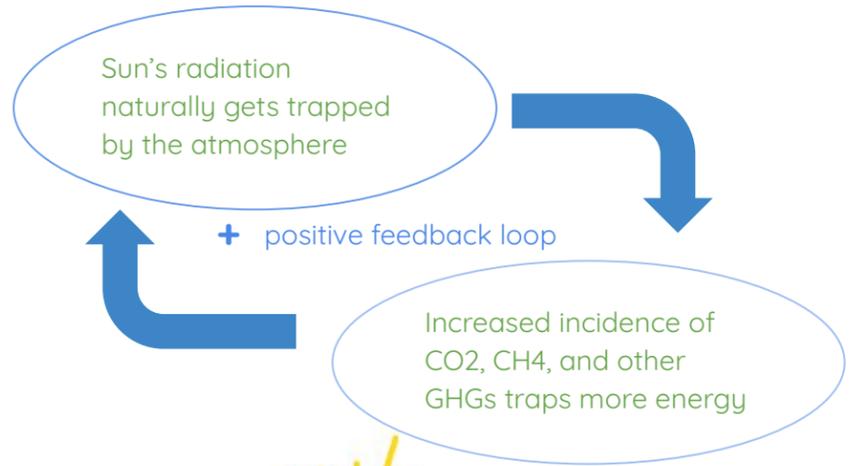


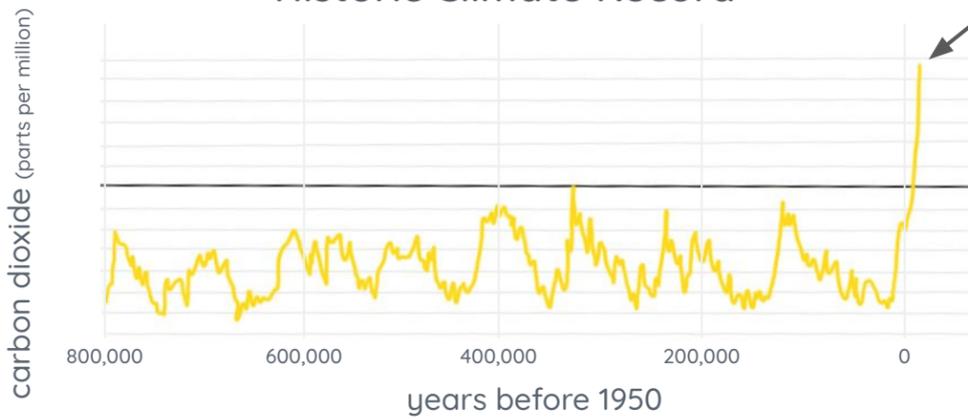
THE POWER OF GREENHOUSE GASES



The production of electricity using fossil fuels emits greenhouse gases (GHGs) into the atmosphere, accelerating global climate change.



Historic Climate Record



The current level of CO₂ in the atmosphere deviates from previous natural cycles.



this graph shows ancient carbon dioxide levels, highlighting the recent spike in the last 80 years

Luthi, D., et al. 2008; Etheridge, D.M., et al. 2010; Vostok ice core data/J.R. Petit et al.; NOAA Mauna Loa CO₂ record

RENEWABLE ENERGY

To decrease the concentration of GHGs in the atmosphere, the burning of fossil fuels can be replaced with alternative methods of energy production. **Traditional power** plants produce between **443-1050 g CO₂** per kWh of energy.



Windmills produce **9 g CO₂** per kWh of energy



Solar panels produce **32 g CO₂** per kWh of energy



Hydroelectric generators produce **10 g CO₂** per kWh of energy



Geothermal plants produce **38 g CO₂** per kWh of energy

Economical:

The costs of different energies (most to least expensive)

1. Solar
2. Gas
3. Coal
4. Geothermal
5. Wind
6. Hydroelectric

Environmental:

- renewable energy can produce as low as **9gCO₂/kWh**
- fossil fuel energy emits pollutants and toxins
- power plants intrude into ecosystems

Social:

- accessibility to certain types of energies
- smog in more urban areas

Your source of energy isn't renewable?

Compost food scraps



Properly insulate your home



Wash clothes in cold water



Here's how you can help!

Use energy efficient appliances



Turn off lights when possible



Unplug devices when fully charged

