

# SMALL ACTIONS, BIG IMPACT: REDUCE CO<sub>2</sub>



How can our actions change the world?

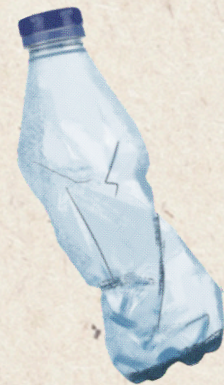




# The Climate Crisis

Humans have changed the earth drastically in positive and negative ways. Unfortunately, people have caused a significant increase in temperature and CO<sub>2</sub> in the past 100 years.

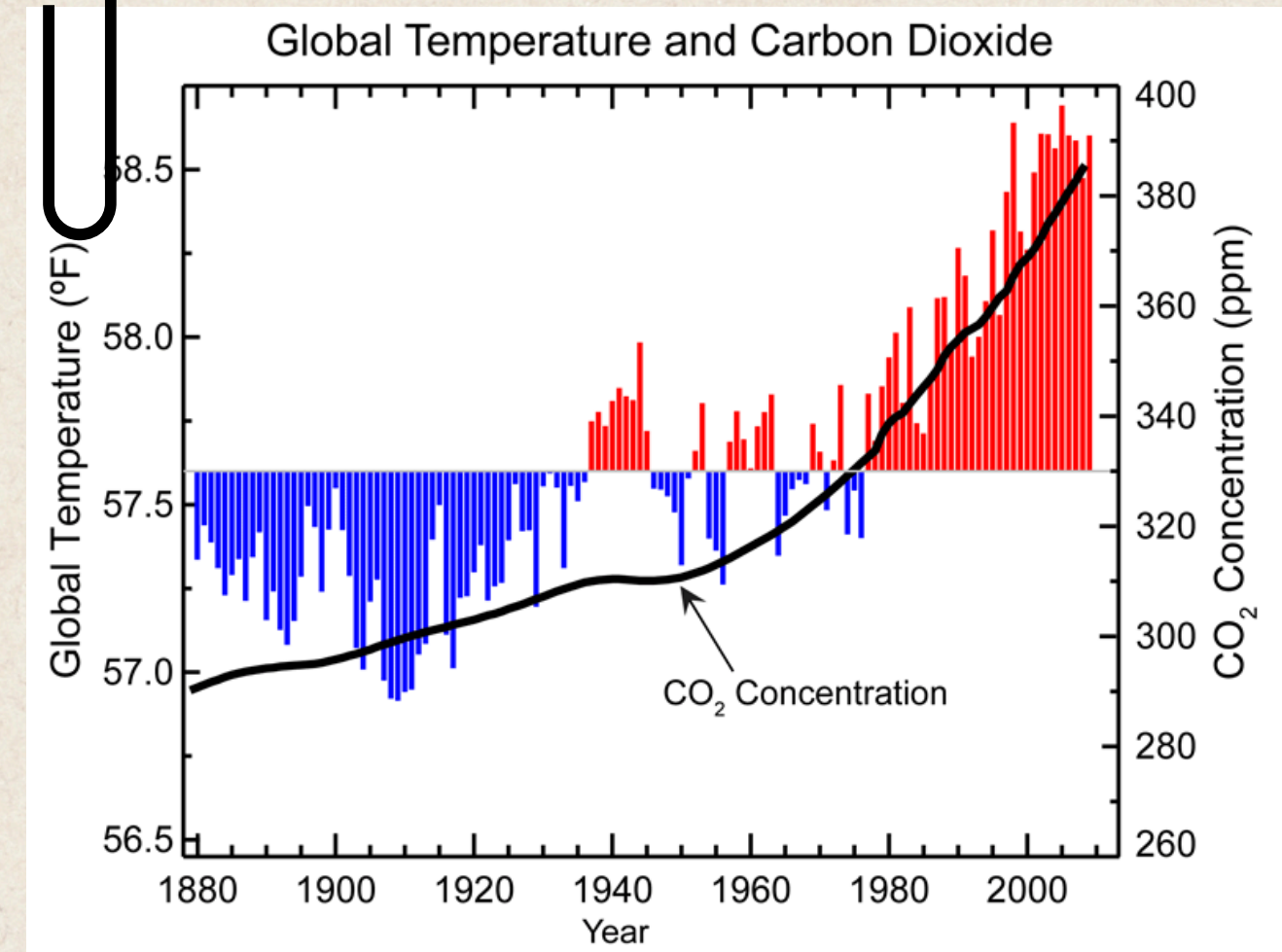
Here is how:



- Waste Generation: We create lots of trash, especially plastic waste, which doesn't break down easily and often ends up in oceans, harming sea animals.
- Statistic: Around 8 million tons of plastic enter the oceans every year, which is like dumping a garbage truck full of plastic into the ocean every minute.



- Deforestation: Cutting down forests to make space for farms, houses, or factories reduces the number of trees that clean the air by absorbing CO<sub>2</sub>.
- Statistic: Each year, the world loses about 10 million hectares of forest — an area about the size of 25 million football fields.





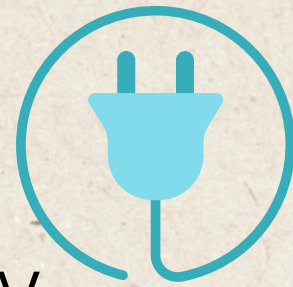
# Carbon Footprint – What Is It?

A carbon footprint is the total amount of carbon dioxide (CO<sub>2</sub>) released by our activities, like using energy, traveling, or producing waste. It's measured in tons of CO<sub>2</sub>.

- Electricity Usage

Using electricity from coal or gas releases CO<sub>2</sub>.

- Statistic: One hour of TV can produce 0.09 kg of CO<sub>2</sub>.



## Diet

- Growing and transporting food, especially meat, produces CO<sub>2</sub>.
- Statistic: Beef production creates 60 kg of CO<sub>2</sub> per kilogram of meat.



- Transportation

Cars, motorcycles, and planes burn fuel, releasing CO<sub>2</sub>.

- Statistic: A car trip of 1 mile releases about 0.4 kg of CO<sub>2</sub>.



## Waste

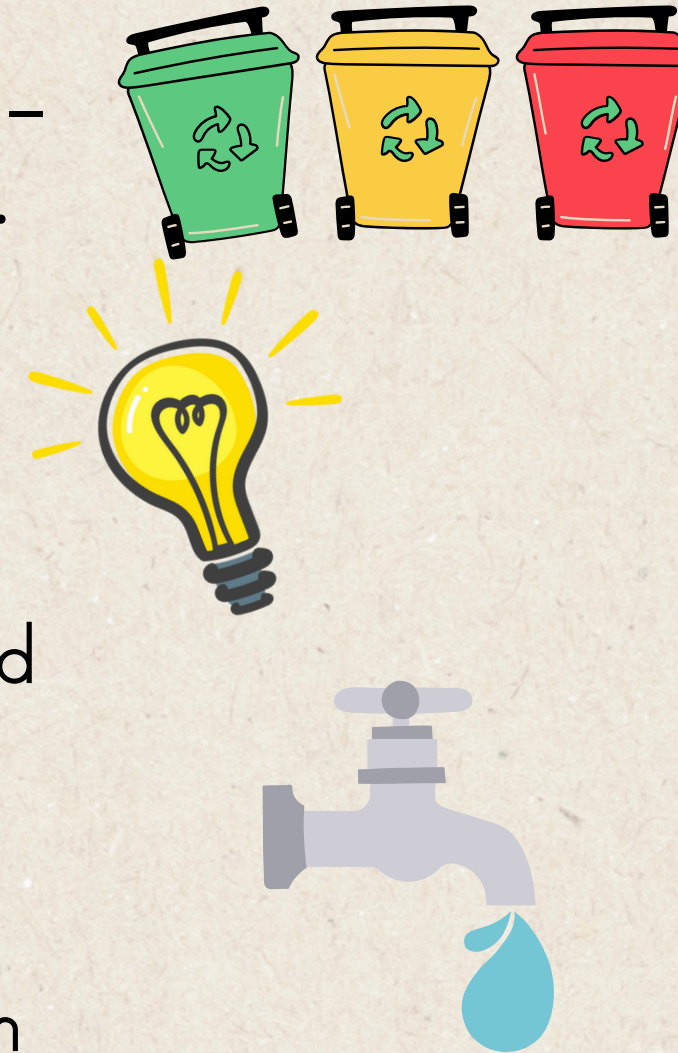
- Throwing away trash, especially plastic, increases CO<sub>2</sub> from landfills.
- Statistic: Plastic waste contributes to around 3.3 billion tons of CO<sub>2</sub> per year.








# Proven Ways to Reduce Carbon Footprints

- **Recycling:** Saves energy, reduces waste. UK example – recycling saves 91kg of CO<sub>2</sub> per household per year.
- **Switching to energy-efficient bulbs:** Use LED light bulbs instead of fluorescent and incandescent bulbs which use much more energy. 120kg of CO<sub>2</sub> can be saved per household per year.
- **Saving water:** Turning off the tap when brushing teeth cuts 7.9 million tonnes from emissions.



## Savings and Efficiency per Type of Light Bulb

	 Incandescent Bulbs	 Fluorescent Bulbs	 LED Bulbs
Approximate Cost per Bulb	1\$	2\$	8\$ or less
Average Lifespan	12,000 hours	8,000 hours	25,000 hours
Watts Used	60W	14W	10W
Number of bulbs needed for 25,000 hours of use	21	14	1
Total purchase over lifespan (approx 23 years)	21\$	6\$	8\$
Total cost of Electricity Used (25,000 hours at \$0.12 per kWh)	180\$	42\$	30\$
Total operational cost over lifespan (approx 23 years)	201\$	48\$	38\$
Energy Efficiency	90% of energy lost to heat	Uses 75% less energy than an incandescent bulb	Used 84% less energy than an incandescent bulb

If we try to change our actions we can make our life easier

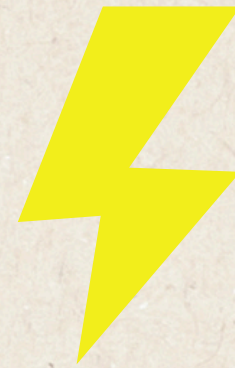
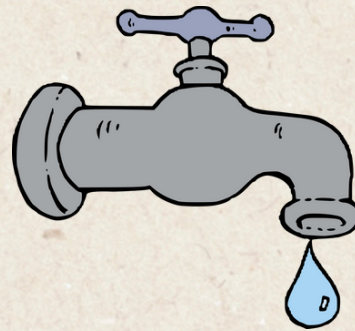


# What We Can Do in Our Dorm

## Simple Changes, Big Impact

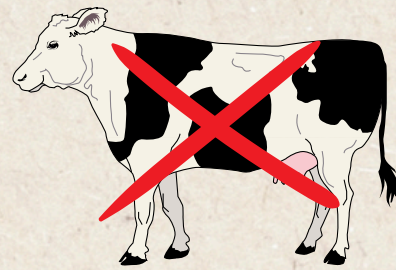
### Reduce Water & Electricity Use:

- Turn off lights, use energy-efficient bulbs.
- Turn off the tap while brushing your teeth.



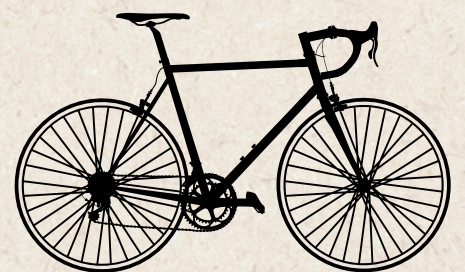
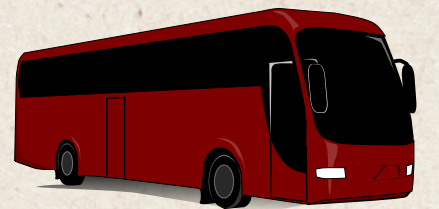
### Eat Less Meat:

- Focus on plant-based meals. Highlight that going vegetarian saves 1,241kg of CO2 per person annually.
- Even giving up beef can make a big difference (beef creates 5x more emissions than other meats).



### Use Local Transport or Bike:

- Taking public transportation or biking instead of taxis saves CO2 emissions from vehicles.
- Car emissions: 2 tonnes of CO2 per car annually.



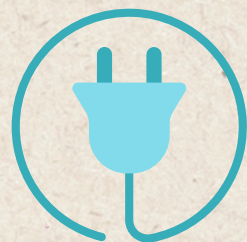
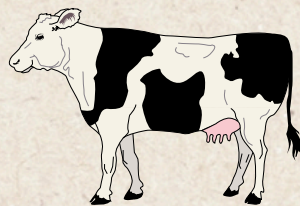


# The Impact of Collective Action

## What Happens If We All Participate?

If everyone in the dorm turns off taps, uses efficient lighting, and recycles, we could make significant CO2 savings.

**You are the one, who can change the conditions of the place you live in**

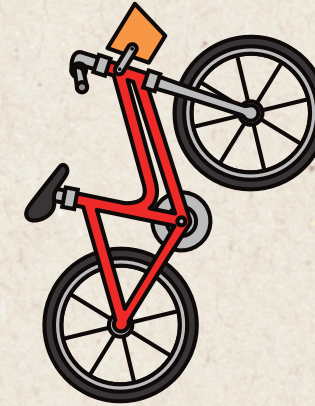


### UK examples:

- Planting a tree cuts 2kg of CO2 per person per year, totaling 128,000 tonnes in the UK.
- Recycling saves 91kg of CO2 per household annually; UK-wide recycling could save 2.4 million tonnes.
- Switching to energy-saving lightbulbs saves 120kg of CO2 per household, adding up to 3.2 million tonnes if all UK homes switched.
- Turning off the tap while brushing teeth could reduce CO2 emissions by 7.9 million tonnes.
- Doing all these actions together would save 13.6 million tonnes of CO2, beating the UK's 2.5% emissions reduction target.
- Giving up cars could save 70 million tonnes of CO2 annually in the UK (2 tonnes per car).
- Going vegetarian saves 1,241kg of CO2 per person; if everyone did it, the UK would save 79 million tonnes of CO2.
- Beef production creates 5 times more emissions than other meats—cutting beef consumption alone could significantly reduce emissions.







# WILL YOU CHANGE THE WORLD?

All of the small and easy actions we  
talked about in this presentation can  
change the world if we all participate

