

CO² Emissions: It's effects on global warming and our daily lives

A data visualization by The (Green)Power Rangers

Introduction and Key Facts

What is climate change?

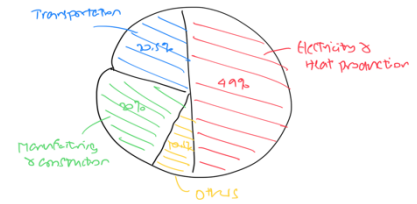
Climate change is long-term shifts in global or regional climate patterns. It often refers to specifically to the rise in global temperatures.

CO₂ emissions and other pollutants and other greenhouse gases collect in the atmosphere and absorb sunlight and solar radiation. This radiation is trapped in the atmosphere from years to centuries, cause the planet to get hotter. (Also known as greenhouse effect).

We produce CO₂ emissions when we use energy for electricity, cooling, transportation, heat, manufacturing and other sectors.

20.5% of CO₂ emissions is from transportation.

Did you know that CO₂ emissions from Transportation makes up more than 20% of the total?

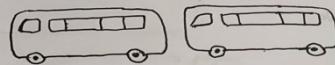


2 Avg CO₂ absorption of 1 tree is 30kg / yr
22 trees needed to offset emissions from 1 yr's commute*

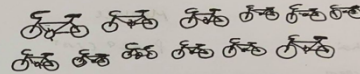


* Assuming 20 km commute / day

1 medium (petrol) car produces 192 g of greenhouse gases per km



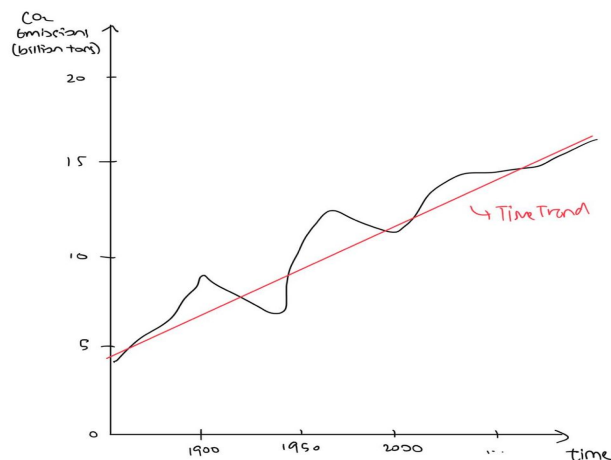
Roughly 2 buses with 30 passengers on average produce that much of CO₂



Roughly 12 bikes produce that much CO₂ emissions because of rider's average meet intake.

Time Trend

Total CO₂ Emissions 1900-2020



View: ☒ Total emissions ☐ Emissions from Transportation

Time Period: ☒ ALL ☐ Past Year ☐ Past Month

Based on past data, CO₂ emissions will increase by ~1 billion tons each year!

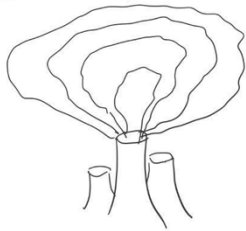
How much do you contribute?

What type of vehicle do you use?

- ☐ car
- ☐ motorcycle
- ☐ bus
- ☐ subway
- ☐ train
- ☐ flight

How far do you travel each day on average?

- ☐ < 10 km
- ☐ 10 ~ 50 km
- ☐ 50 ~ 100 km
- ☐ 100 ~ 500 km
- ☐ > 500 km

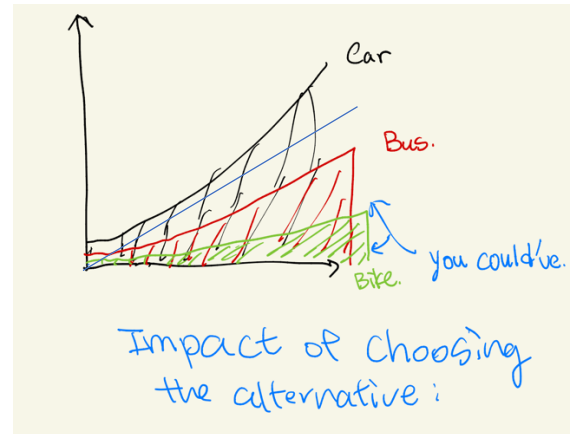


different sizes for different level
You can choose 1 type or multiple choices.
We calculate the total amount of CO₂ emission.
And set different levels with different sizes.

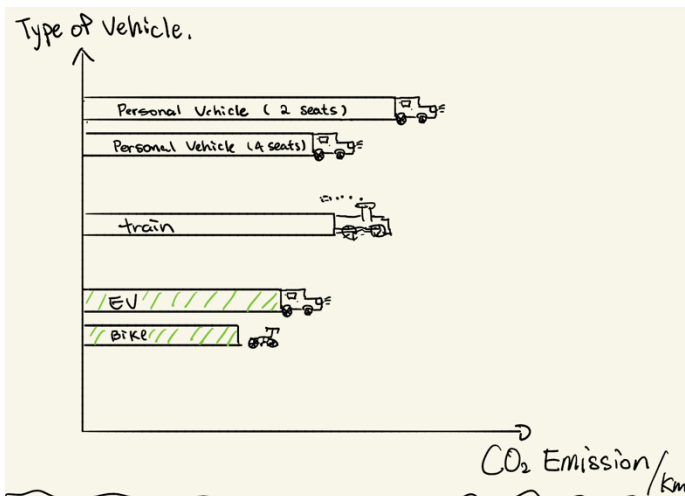
Or we choose one size, can display with various color.



We can use different colors to stand for different levels.



What can you do to help?



Select any 2 vehicles and compare their CO₂ footprint + CO₂ Emission.

- ☐ bicycle ☐ airplane
☒ bus ☐ subway
☐ Car (4 seats) ☐ train
☒ Car (2 seats) ☐ ...
- Vis**
- Did you know ...
 Driving 1km via car
 is equivalent to 10 people travel 1km via bus.

Conclusion

(short conclusion stating how the problem can be solved)

If enough people take steps to reduce emissions caused by transportation, we can potentially reverse climate change...

