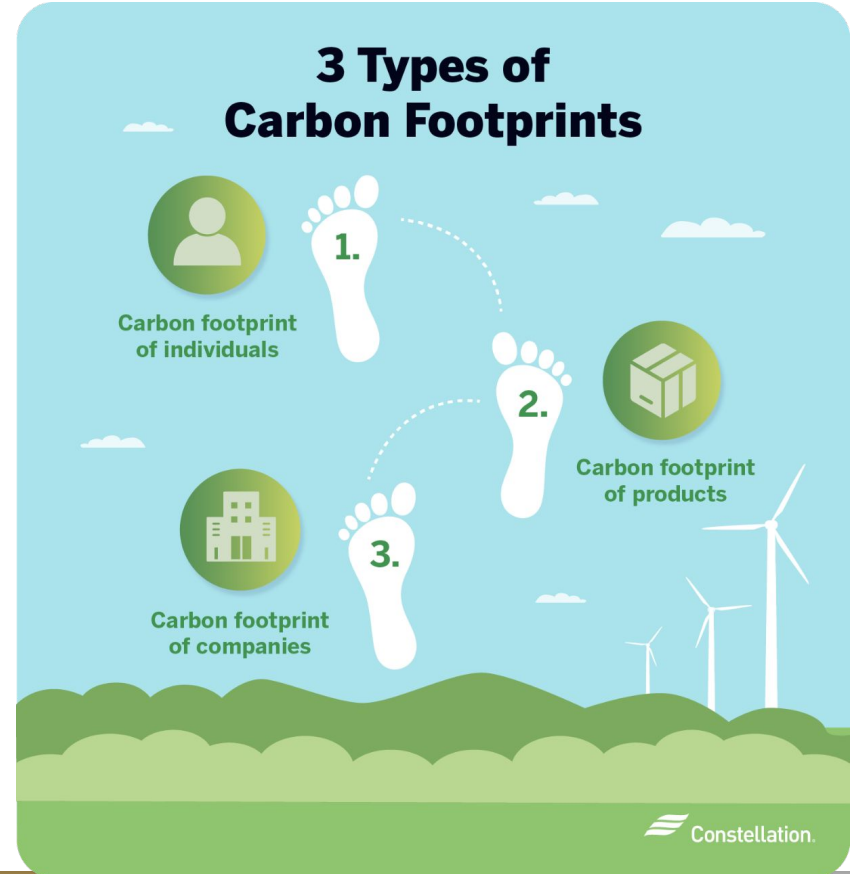# What is carbon footprint?

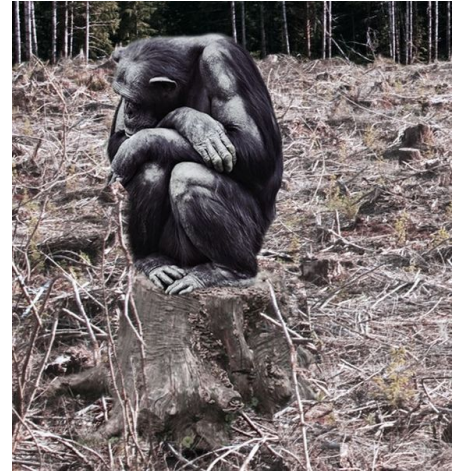It's generally the total set of greenhouse gas emissions caused by an organization, event or product.

What are carbon emissions? They are the greenhouse gases such as **carbon dioxide (CO2)**, **methane (CH4) and nitrous oxide (N2O)** that are generated by the energy you consume directly and indirectly.

3 Types of Carbon Footprints

1. Carbon footprint of individuals

2. Carbon footprint of products

3. Carbon footprint of companies

Constellation.

Causes of:

Consequences:

Carbon dioxide emission as per:

producing 1 kg of beef	**99,48 kg**
using up 1 l of gasoline while driving	**2,3 kg**
travelling 1 km by bus	**880 g**
making one t-shirt	**7 kg**
using up 1kWh of energy (based on data collected in the United Kingdom)	**204 g**

World's outlook on carbon footprint

The European Union is pursuing an energy policy that aims to **reduce CO2 emissions** and achieve climate neutrality by **2050**.. The main part of this is the **Emission Trading System** (EU-ETS), which has the biggest impact on business entities that burn large amounts of fuels for production purposes.

Reducing the greenhouse gases emissions has now become a world-class policy. Environmental and emission policies are present at companies in the energy, chemical, manufacturing, food, and even financial and IT sectors.

By 2050, changes to ag tech and diet could reduce greenhouse gas emissions by:

10.3 billion metric tons
Planting trees on unused farmland

8.2 billion metric tons
Encouraging a 'flexitarian diet' around the globe

5.2 billion metric tons
Adding silicate rock dust to crop soils

2.4 billion metric tons
Applying biochar to croplands

1.7 billion metric tons
Supplementing livestock feed

Source: Almaraz and Houlton, et al.

Largest carbon dioxide emitters:

Countries that have very strong and big economies like USA and China

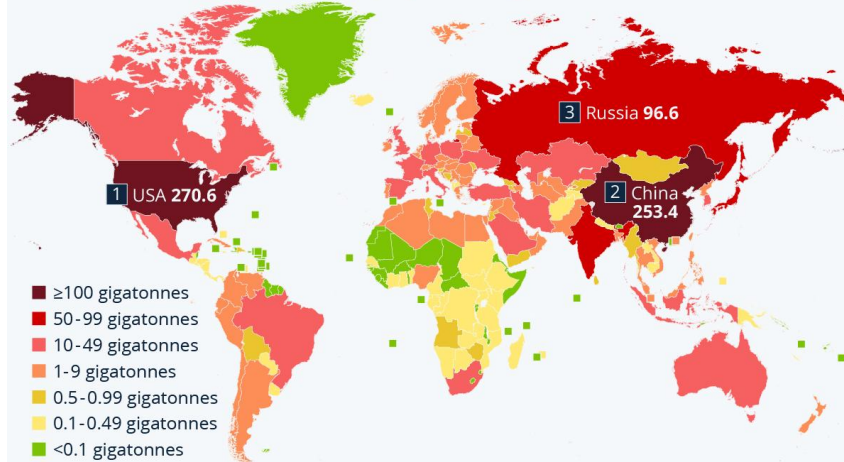**Companies** producing and processing petroleum such as Lukoil and Shell

World's CO2 emission in the past 50 years

The World's Uneven CO2 Footprint

Estimated cumulative CO2 emissions between 1970 and 2021, by country

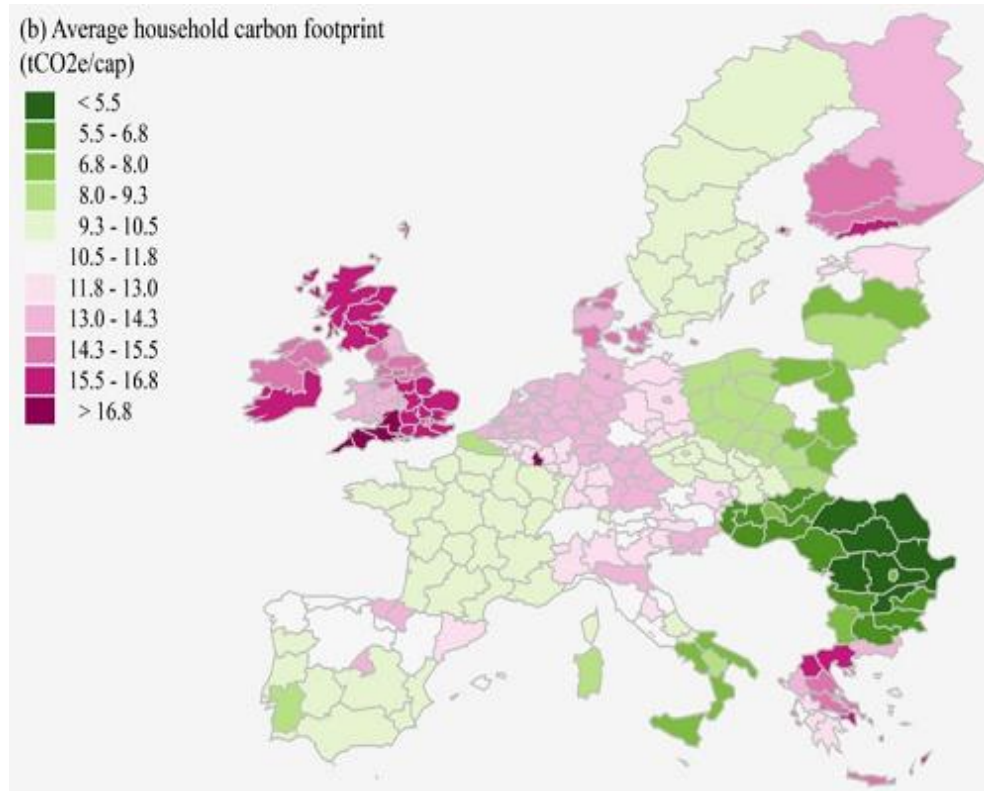- 1 USA 270.6
- 2 China 253.4
- 3 Russia 96.6

Legend:
- ≥100 gigatonnes
- 50-99 gigatonnes
- 10-49 gigatonnes
- 1-9 gigatonnes
- 0.5-0.99 gigatonnes
- 0.1-0.49 gigatonnes
- <0.1 gigatonnes

Source: European Commission

statista

Average household carbon footprint in Europe

(b) Average household carbon footprint (tCO2e/cap)

- < 5.5
- 5.5 - 6.8
- 6.8 - 8.0
- 8.0 - 9.3
- 9.3 - 10.5
- 10.5 - 11.8
- 11.8 - 13.0
- 13.0 - 14.3
- 14.3 - 15.5
- 15.5 - 16.8
- > 16.8

Prevention methods

Use renewable energy

Reduce food waste

Recycle

Use public transport

Thanks for your attention!

¡Gracias por su atención! :)