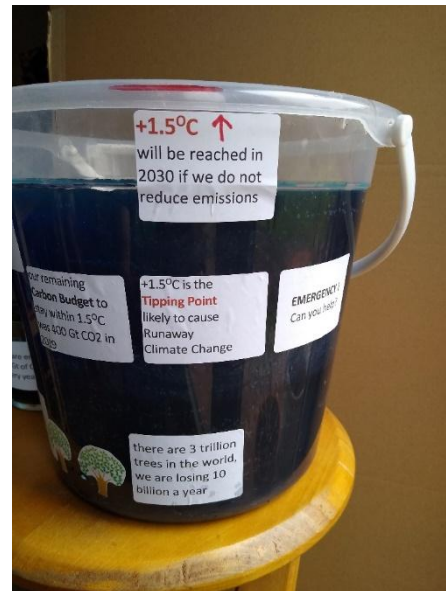




Information: In 2019 the IPCC and UNCCC told us that we had ~400 Giga tonne (**Gt**) CO₂ left to emit before the CO₂ concentration would cause more than 1.5°C warming compared to pre-industrial levels. We emit ~40 Gt CO₂ every year, mainly from burning fossil fuels.

Q: How many years before we exceed our Carbon Budget of 400 Gt?

A: 10 years, so we need to be at Net-Zero by 2030! We have 5 years left.

Q: In 2024, if we halved our emissions next year, how many years would we have left?

A: not 20, but $(400-200)/20 = 10$ years! Once emitted, it cannot be removed, that's why it's an emergency. 200 Gt will have been emitted by the end of 2024.

Information: The world has ~3 billion trees and lots of natural Carbon sinks on land and in the sea. We destroy more of these than we create new ones, about 10 million mature trees a year are destroyed.

Q: How much of our fossil CO₂ is absorbed by these and the extra trees we plant?

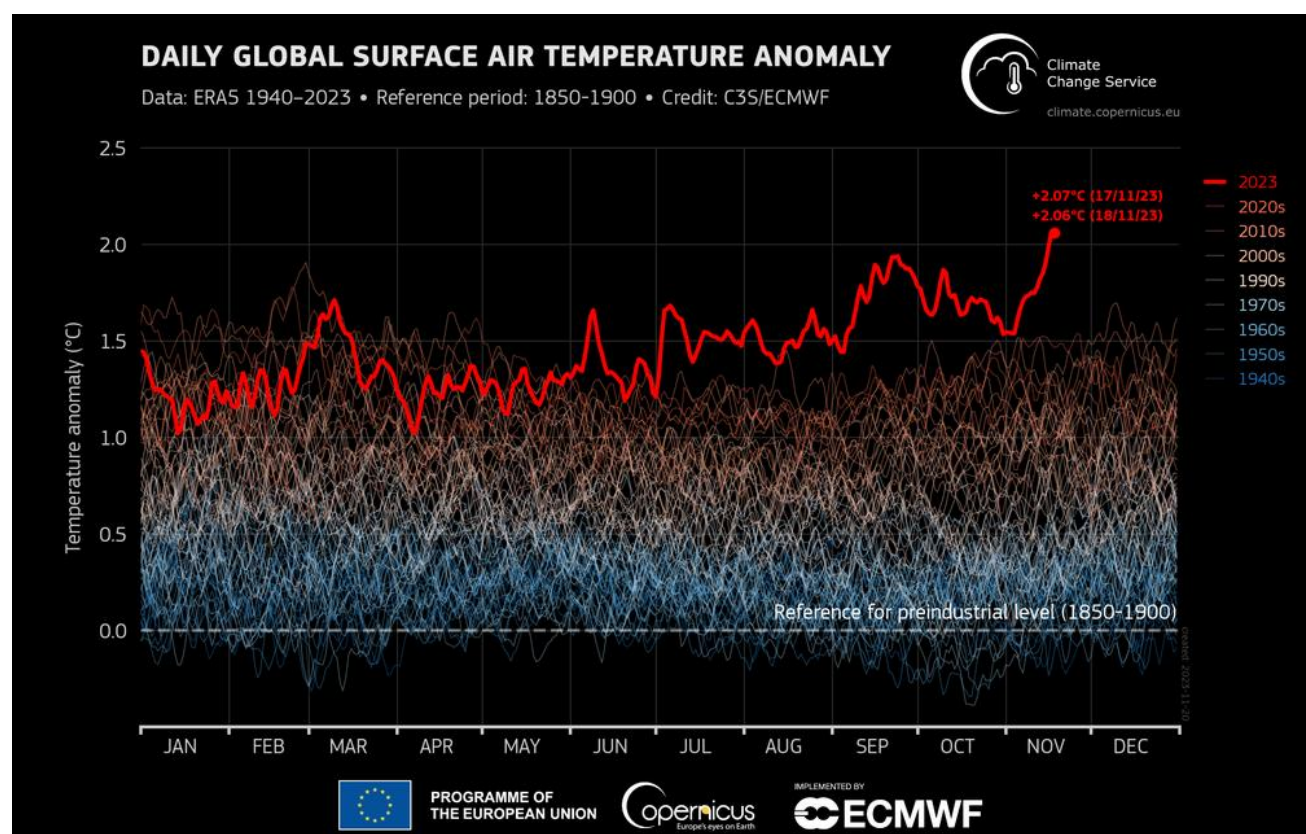
A: Zero, because the existing trees no longer cope with natural CO₂ sequestration, we are out of balance.

Information: Common sense tells us that the quickest, easiest and cheapest approach is to follow the Energy Hierarchy; #1 Reduce consumption (cut out waste) ; #2 Use it more efficiently ; #3 Generate low-carbon ; #4 Offset the remainder.

Q: What approach would you prefer?

A: have the conversation.....

Daily temperature anomalies since 1940s



Global Average temperature rise per year

GLOBAL AVERAGE SURFACE TEMPERATURE

