DOCUMENT TYPE: EXTERNAL

PROPS FOR AUDIENCE ENGAGEMENT

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Section 1. Introduction

"I want to help you get a feel for roughly how much carbon is at stake when you make simple choices… Unlike money we are not used to thinking about carbon costs."
Mike Berners-Lee, author of How Good are Bananas?

*"If we're serious about really addressing climate change, we need to become **ENERGY** and **CARBON** literate (like we are with money), and to get to grips with the implications not only of our choices but also the bigger infrastructures which underpin the things we consume. How can we educate our desires unless we know what we're choosing between?"*
Peter Lipman of Sustrans about How Bad are Bananas?

The following props are intended to help you engage your audience in this subject. Having something to look at, especially if it is dynamic with some jeopardy, engages more than reading or just being told about it.

Section 2. Prop: Bucket

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^{O}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.

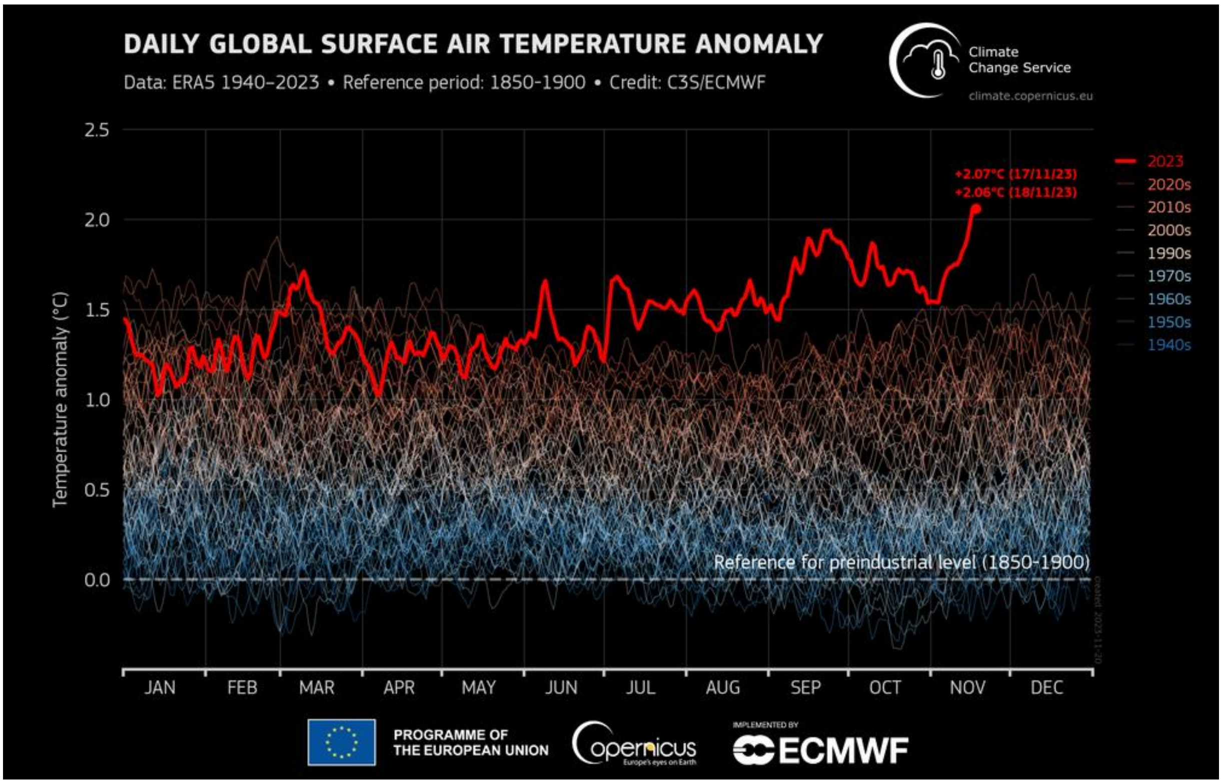
Q: In 2024, if we halved our emissions next year, how many years would we have left?
A: not 20, but (400-200)/20 = 10 years! Once emitted, it cannot be removed, that's why it's an emergency. 200 Gt will have been emitted by the end of 2024.

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.

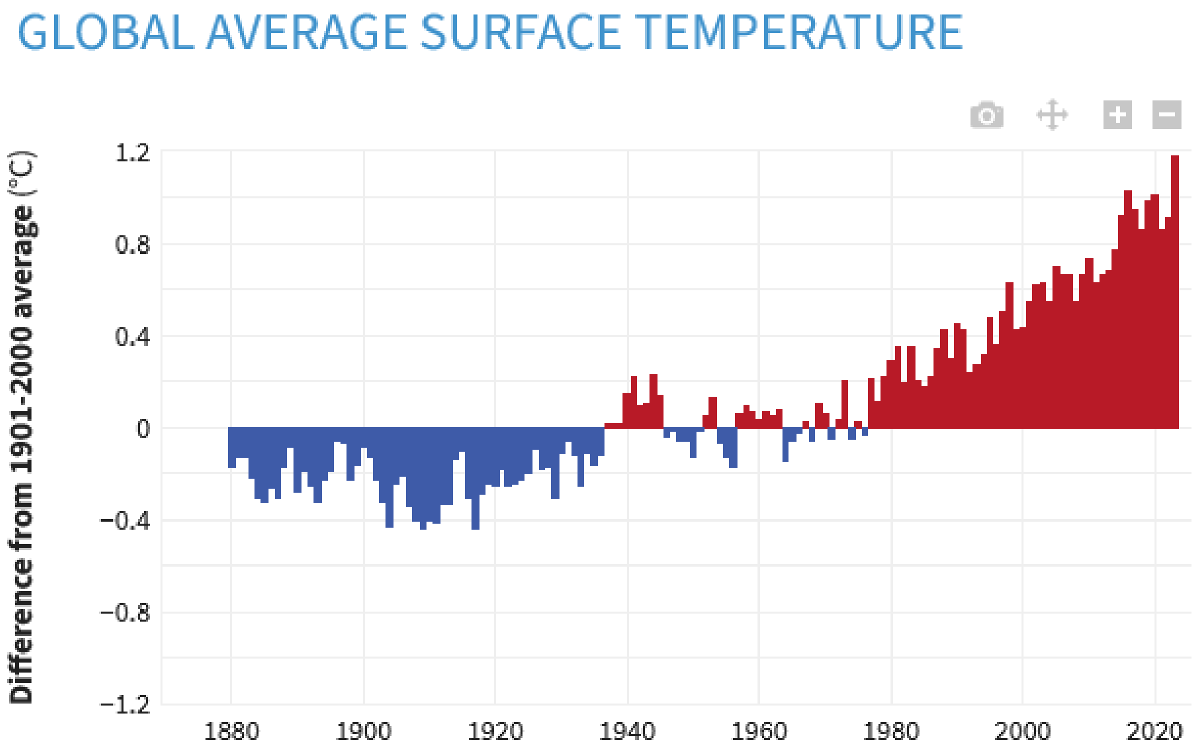
Q: How much of our fossil CO2 is absorbed by these and the extra trees we plant?
A: Zero, because the existing trees no longer cope with natural CO2 sequestration, we are out of balance.

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



Section 3. Prop: Stirling Engine

This prop attracts attention at stalls. It looks beautifully engineered and mysteriously moves. The onlooker cannot immediately work out how this movement happens, unless they know about the design.

It should be easy enough to engage an onlooker, or even point the prop out if it's not been spotted. Questions like:

- Do you know what this is?
- Any ideas how it works?
- It looks nice doesn't it?

If there is interest and you've gauged the level of technical understanding, you can bring in the reason ACT has this on its stall. You don't need to be coy about it!

- We use the prop to get a conversation going about energy, how we use it and the consequences.

Let the conversation go where the audience wants or is interested in. Sometimes is doesn't go beyond admiring the aesthetics of the prop. If it goes well and there is an interest, it should end with them wanting to learn more about how they use energy and where they can cut out waste. Make them aware of:

- ACT website as a resource
- Training we provide, especially My Electricity (offer them a leaflet)
- Other ACT initiatives such as WW and CC

You will need to know a little about how the Stirling Engine works. You'll also need to be familiar with the ACT resources around energy and GHG emissions. Make sure you've done some preparation, ideally including roleplay with a friendly audience.