



**Co-operative
Climate Action**

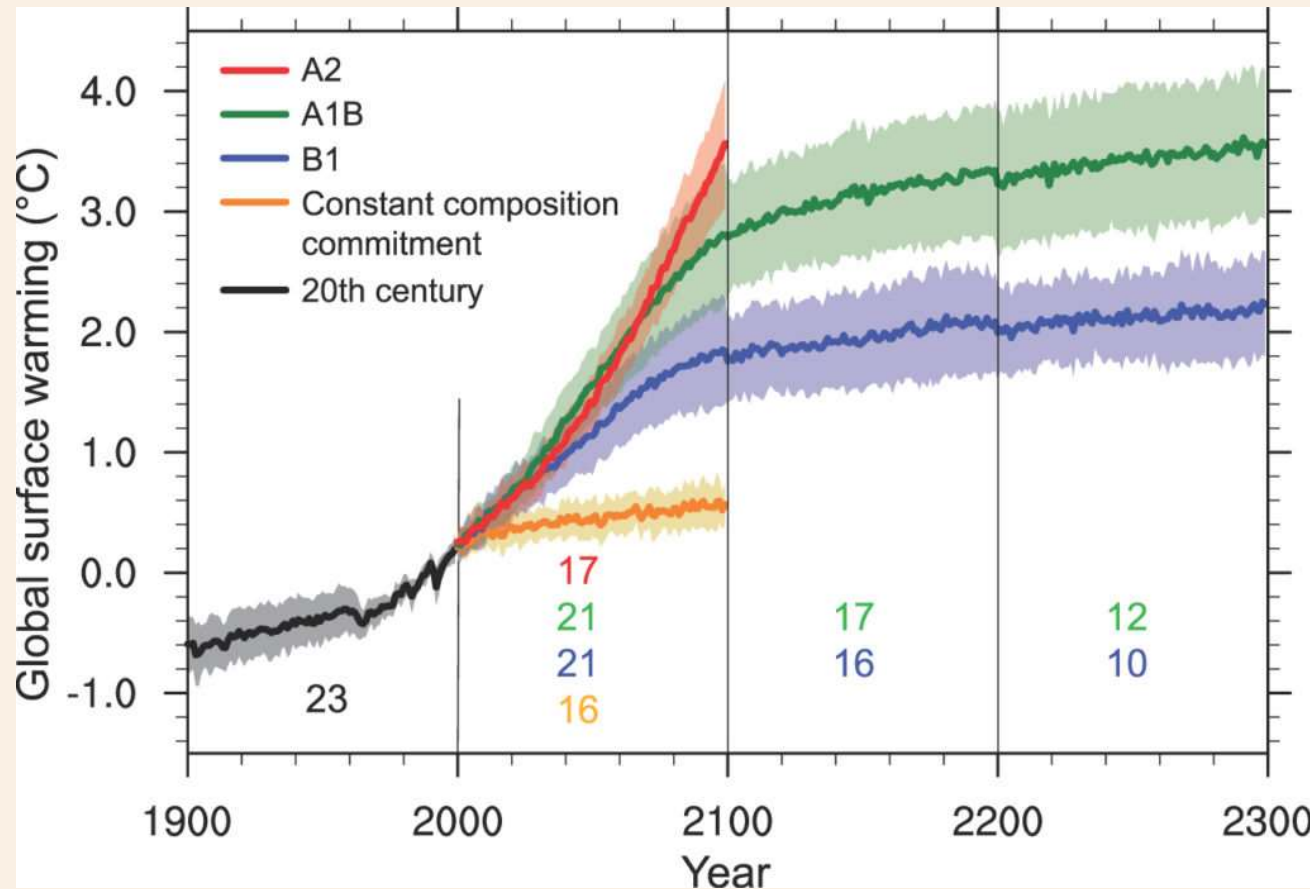


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**Why consider co-
offsetting?**

Extreme weather will become more frequent

Whatever we do today to reduce emissions will not prevent global temperatures increasing for at least 10 years



IPCC projections



We must remove CO2 from the air whilst reducing emissions

- Cutting emissions alone will not be enough to keep global temperatures from rising more than 1.5 or 2 degrees C.
- The Intergovernmental Panel on Climate Change and others have all stated that extracting CO2 from the air will be needed if we are to bend the rising temperature curve before the end of this century.
- These must not be a distraction from the pressing business of limiting emissions—both are essential.
- Tree planting at <\$20/tonne Co2 e is one of the most cost effective ways of extracting CO2 from the air *provided* it is not competing for land with food production*

*US National Academies of Sciences, Engineering and Medicine study 2018

Wealthy countries bear responsibility

Emissions from wealthy countries, companies and individuals have caused the climate change that is already causing extreme hardship in some poorer countries like Malawi.

- Floods—lost crops and houses mean people go hungry
- Maize yield—higher temperatures reduce yield of this staple crop
- Lack of clean water as boreholes dry up in the dry season—worst cholera outbreak for 20 years in 2022 killed over 1000.
- Resulting price increases are causing hunger and malnutrition

Urgent individual and corporate action is needed

Average Co2 emissions per person in 2017

USA 18 tonnes

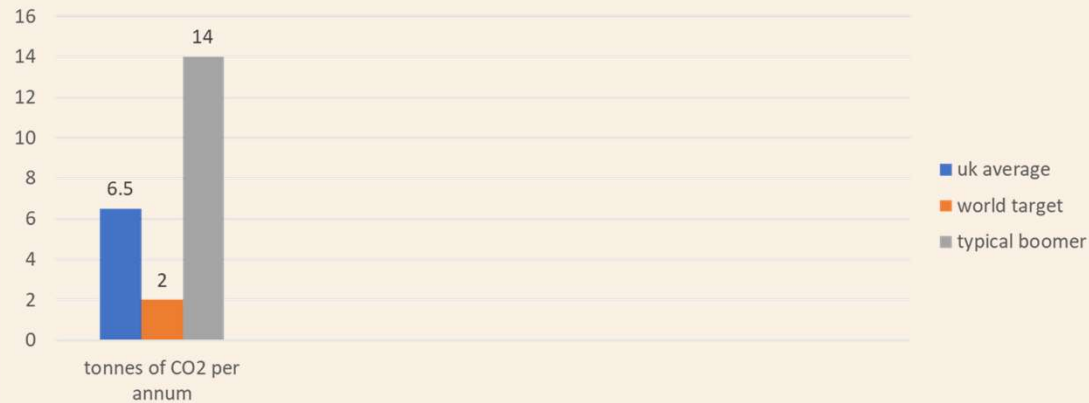
Europe 4.9 tonnes

Africa 1.3 tonnes

UK 8.1 tonnes

- At home 1.5
- Flights 0.5
- Other travel 1.5
- Food 2.6-vegans 1.0
- Government and services 1.0
- All the rest 2.0

A long way to go
(baby boomer taking 3 flights/year, small car and 3 bed house)



We should all prioritize reducing this, but we cannot get to zero or undo the past, so that is not enough

Every year save what is practical and cost effective and co-offset the rest

We *can* make a big difference

Those who can afford it can also help vulnerable communities in poor countries adapt:

- by helping communities with investment and cost effective low carbon technologies.
- Increasing their resilience to the effects of higher temperatures

Its never too late to start—think about your lifetime emissions and the legacy you are leaving children growing up today.

When communities are up against it—the Co-operative approach works

Co-operative Climate Action offers a cost effective and sustainable way of doing this for individuals and businesses that can also reduce the growth in emissions from Africa, which is vital for controlling longer term global temperature increases.

- Run by volunteers
- Co-operative structure—community driven, transparency for investors, rooted in co-operative values and principles
- Projects self funding in the long term

Giant clumping bamboo co-operative project with schools, wildlife association, churches and smallholders

- Reduces felling of mature trees for firewood
- CO2 absorption 4X that of fastest growing trees
- Can also be used for goat fodder, nutritious food, water treatment, erosion control, construction, etc
- Community engagement includes education campaign on the need to preserve indigenous forests and support wildlife



planting at one of our pilot school projects

Giant clumping bamboo co-operative project with schools, wildlife association, churches and smallholders

- 30% of canes can be cut annually after 3 years
- Planting at schools, churches, and smallholdings rather than large monoculture plantations
- Fuel efficient stove design and materials provided to planters
- Co-operative provides support to establish spin off community businesses



5 year old bamboo at the nursery near Lilongwe

Resource Centre–on Lakeshore near Nkhotakota Central Malawi

To help community groups establish their own green businesses

- Internet access
- Solar panels
- Wind turbine
- Bore hole
- Workshop
- Accommodation

Plans for fish pond, demonstration farm, and many other projects



We need your help

£110/year would co-
offset the average UK
citizens emissions

Lets help them build
a future



Thank you for your time.

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