Now you can do something about climate change



Credit: Eden Reforestation

Thank you for reading this, because today our planet is on track for global warming of 3.5°C, which means catastrophic climate change.

It's unthinkable we allow climate change to wreck our planet. Isn't it? But it's touch and go. Which is why you need to know what's happening and what we and you need to do about it.

We're all causing climate change

Now you can do something about it.

Give Back for the fossil fuels you use by planting trees.

Plant enough trees and you Give Back for ALL your fossil fuels.

So YOU stop causing climate change. You've done what you can.

And what if you tell others about it? Together, maybe we can get them to join in.

I want to Give Back for my fossil fuels



Credit: Eden Reforestation

1. **We are using way too much fossil fuel**
   Using too much fossil fuel means we emit too much CO_2. Today we are emitting over 40% more CO_2 than can be absorbed naturally by the oceans, plants, trees, and in the soil. Source: UK Government. This means that over 40% of the CO_2 we emit just stays in the air. It has nowhere else to go. It adds to the CO_2 already in the air.

2. **So CO_2 in the air is increasing**
   CO_2 is already dangerously high at over 410 parts per million (0.041%). CO_2 in the air is also increasing at around 2ppm each year. More CO2 in the air means more global warming.

3. **So today we are on track for 3.5C of global warming.**
   World Leaders agreed to keep global warming "well below 2C," ideally 1.5C. But instead we are on track for 3.5C which means catastrophic climate change. Why the gap? Because action by World Leaders to reduce and remove CO_2 is much less than what is required. That's why we have to step in and take action.



Credit: Joel Bombardier

It's very serious. "Global warming above 2°C could carry catastrophic consequences." Keeping to 1.5C lessens the risk. The threat is unique in scope and scale:

- Rising sea levels from melting ice caps may inundate major cities.
- Extreme heat, drought, fires, and extreme weather, leading to parts of the world becoming uninhabitable, failing crops and water supply, leading to food shortages, tens of millions of climate refugees, instability and conflict, and a threat to the livelihoods of the 1 bn poorest people on our planet
- Global warming above 1.5°C also risks triggering unstoppable global warming from the release of methane currently frozen in permafrost in Siberia.

At risk is the future of our children, our planet, and our wild animals

N0CO_2

Why Support N0CO_2?

- ✓ You plant trees which remove your CO_2
- ✓ Where we plant trees creates meaningful paid work, which lifts families out of extreme poverty
- ✓ You help create healthy natural forests
- ✓ You show you care about climate change
- ✓ Together we SHOW World Leaders they must stop climate change

Yes, I want to plant trees

More CO_2 in the air means more global warming

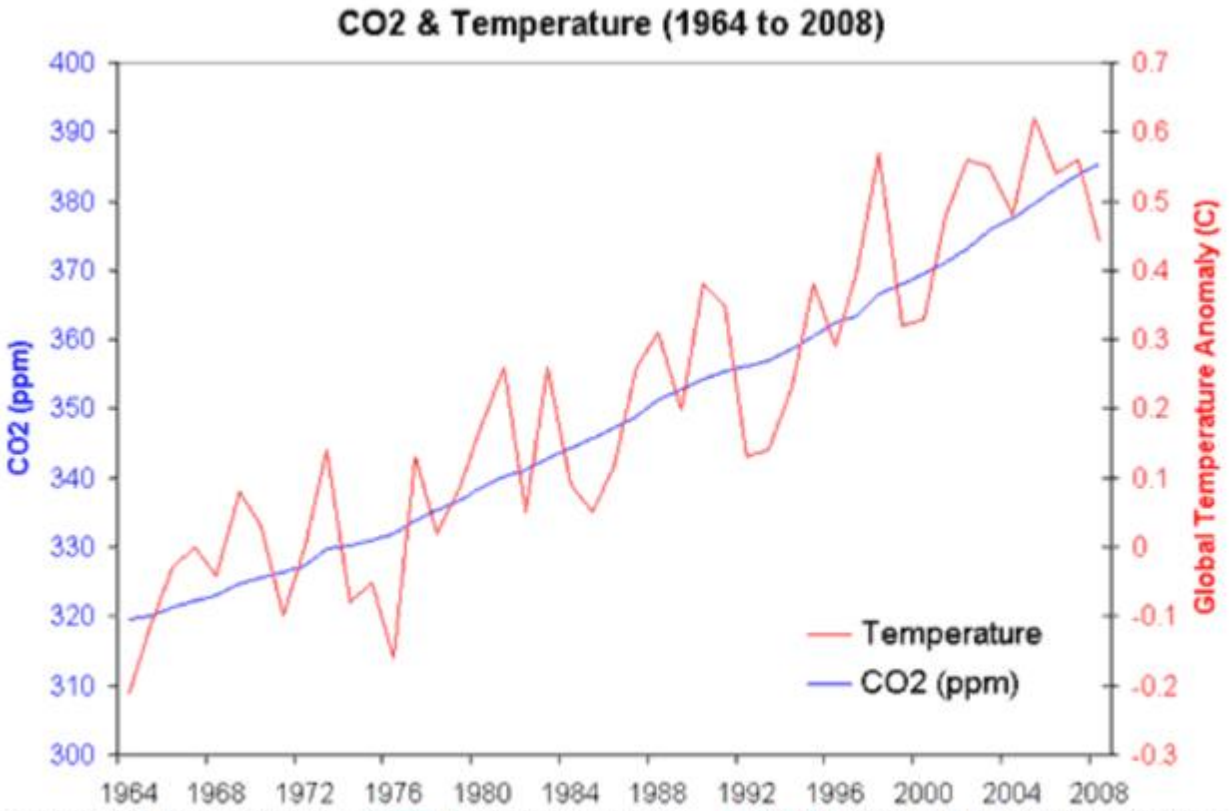


Figure 2: Atmospheric CO2 (parts per million, NOAA) and Global Temperature Anomaly (°C GISS) from 1964 to 2008.



1. **Reduce your fossil fuels.** In the UK, the biggest impact for most households is to switch your electricity to 100% clean energy. This alone saves around 13% of UK average CO_2 emissions.
2. **Give Back for the rest of the fossil fuel you use.** We plant trees for you.
3. **Reach out to others to join in.** You can run your own climate change campaign and get others involved just using the tools we provide. Get some friends to work with you and it makes it easier - and more fun.
4. **Insist politicians implement the Paris Agreement:** To keep global warming to 1.5C maximum. Give Back for the fossil fuels you use and together we can make a difference.

I want to go Carbon Neutral

How Many Trees Should I Plant?

Plant enough trees and you Give Back for ALL the fossil fuel you use THIS year and EVERY year the trees are growing. You become Carbon Neutral!

The average UK fossil fuel user creates around 7 Tonnes of CO2 per person per year. To Give Back for this you need to plant a total of 1,750 trees.

Plant as many trees as you can.

Average CO_2 emissions are different for each country. Average CO_2 emissions for selected countries and the number of trees you have to plant to Give Back for these are:

UK	7 Tonnes -	plant 1750 trees
France	5 Tonnes –	plant 1250 trees
Germany	9 Tonnes –	plant 2250 trees
USA	16 Tonnes –	plant 4000 trees
Australia	15 Tonnes –	plant 3750 trees

How we use Fossil Fuels

This is a breakdown of the AVERAGE use of fossil fuels per person in the UK. If you live in a bigger house you may use more gas and electricity. If you drive a lot you will use more petrol/diesel than this.

Fossil Fuel Use	**CO_2 emissions UK Averages**	**Number of Trees to remove this CO_2**
Full up your car with 50 litres of petrol/diesel	2.5 kg per litre 50 litres = 125 kg	32
Air Travel 2 hours return Economy Class	500 kg	125
Electricity bill for 1 year	1 Tonne	250
Gas bill for 1 year (Zero if no gas)	1.9 Tonnes	475
Petrol/Diesel for 1 year (Zero if no car)	1.4 Tonnes	350
Other – includes public transport and services and the fossil fuels in buildings and products you buy: car fashion, electricals, electronics, etc.	2.7 Tonnes	675
People who use average amounts of fossil fuel create around 7 Tonnes of CO_2 /year.	7 Tonnes	1750

Add for your extra Air Travel. Each hour of Air travel creates around 125Kg of CO_2. Multiply by 3 for Business Class and by 4 for First Class! Many people make dozens of flights a year!

Ways to Reduce Our CO_2 Emissions

Being a vegetarian or vegan will reduce your CO_2 emissions:

Fossil Fuel Use	**Average SAVING of CO_2e emissions**	**Number of Trees saved**
SAVING if 100% vegetarian diet per person for 1 year	- 0.35 Tonnes	- 80
ADDITIONAL SAVING if 100% vegan diet per person for 1 year	- 0.45 Tonnes	- 103

Reduce your CO_2 – do this one thing!
Everyone in the UK should do this. Switch to 100% clean electricity – ie electricity that uses no fossil fuels. On average you will reduce your CO_2 by **13%** for EACH PERSON in your home. You won't notice any difference. Switching is mostly quick and easy.

You may also pay less than now. Because OFGEM say over 60% of UK customers are on Standard Variable Rate (SVR). Switch from SVR to clean electricity, and you will help stop climate and you may also save money.

Where does our CO2 come from?

"Fossil fuels are going to run out eventually ……. the movement away from fossil fuels that is required to deal with climate change will eventually have to happen anyway to deal with resource exhaustion." **Burton Richter**

Nearly 80% of CO_2 comes from fossil fuels we use: coal, oil and gas
We buy electricity, gas central heating, petrol/diesel for our cars, and fuel for air travel.

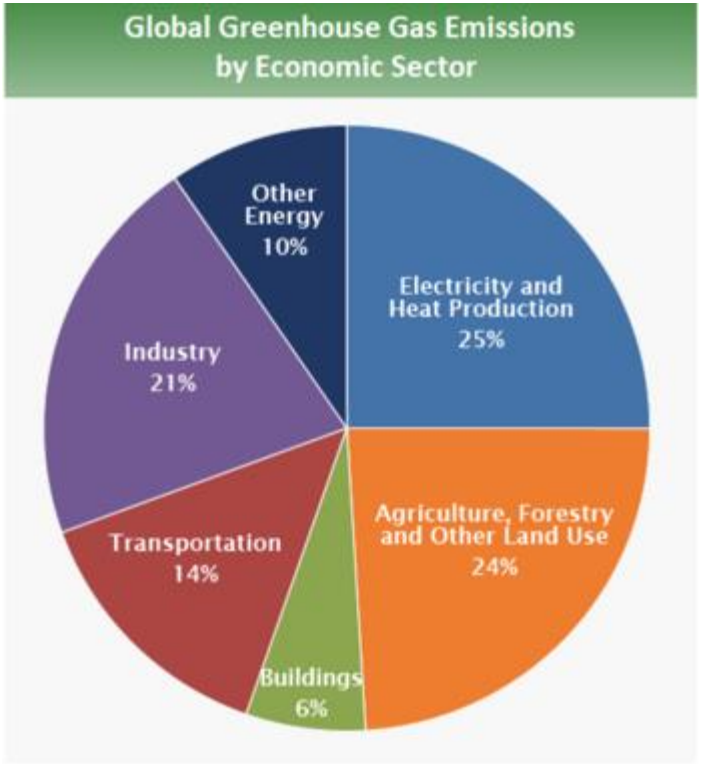
CO_2 is created by manufacturing and transporting products we buy. CO_2 is also created in huge quantities to produce steel and cement for buildings and infrastructure projects.

Over 20% of CO2 emissions comes from clearing rainforests and land for agriculture Clearing rainforest reduces the ability of our planet to remove CO_2. Cattle and sheep produce methane, which is much more damaging than CO_2.

Climate change has been a problem mainly in the last 30 years
Safe CO_2 levels are 300-350 ppm. It was only in April 1986 when CO_2 levels first increased to 350.38 ppm. Just over 30 years ago. Within the lifetime of many of us.

What are the sources of CO_2?

The main sources of Greenhouse Gases Emissions by Economic Sector in 2010:



Source: IPCC (2014); based on global emissions from 2010. Details about the sources included in these estimates can be found in the *Contribution of Working Group III to the Fifth Assessment Report of the Intergovernmental Panel on Climate Change*.



Credit: Pixabay

15-20% is easy.

Many of us make decisions to buy energy for us and our families, some for where we work, and some for the community. How much could you reduce your CO_2?

Switching to 100% clean electricity on average saves 13% of your CO2 if you are in the UK. If you have gas central heating, could you turn it down a bit, and instead wear more clothes? Many car journeys are only short. When you change your car, could you consider an Electric or Plug-In Hybrid ?

Air Travel creates a lot of CO_2 - around 125kg per person per hour of flight. Is an option to travel less but stay for longer? If you travel for business, could you video conference more instead?

Cattle and sheep produce methane. Switching to a vegetarian diet can save around 350 kg/year.

Save energy. Save money. Save CO_2.

In the home: Make our homes more energy efficient, eg by double glazing, loft and wall insulation, by using the best rated appliances, replace halogen with LED lights, and use a Smart meter. Each day, we can save energy and money by turning down the heating, turning off lights and TVs, and boiling only the water we need.

Recycling: Some people are passionate about saving CO_2 by recycling, re-using and re-homing products we no longer need.

Divesting Investments: Others are passionate about divesting investments away from fossil fuels. Research by Impax shows returns may also be better.

How much CO_2 are we creating?

In most European countries, average CO_2 emissions are around 7 Tonnes/person/year.

30 Tonnes is the weight of this articulated lorry fully laden. This is about the weight of CO_2 emissions for an average UK family of 4.



I want to Give Back for my fossil fuels

What do Governments need to do to reduce and remove CO_2?

Much more. The UN IPCC Report dated 8 October 2018 said global warming must be kept to a maximum of 1.5C to lessen the risk to our planet, humanity and our wildlife. This requires far-reaching transitions, but the IPCC says they are achievable. We all now need to make sure our politicians and World Leaders take the action needed to reduce and remove CO_2 so we really do keep global warming to 1.5C maximum;

- To shift energy production from high CO_2 emitting coal, oil and gas - which currently provide around 80% of the world's energy - to low/no CO_2 energy from sun, wind, hydro, and nuclear.
- To shift power consumption as much as possible to electric.
- To introduce price incentives to reduce CO_2, such as a CO_2 tax. Energy which creates CO_2 pollution would cost more, and the money raised would fund the incentives for green energy alternatives.
- To stop deforestation, as this creates around 15% of CO_2.
- By more sustainable Agriculture as this creates around 10% of CO_2. To reduce damaging methane emissions from cattle and sheep, and to increase organic carbon matter in the soil.
- Tree-planting on an epic scale to remove CO_2 by regrowing destroyed forests.
- To fund more research into new energy sources, energy storage, and CO_2 Capture and Storage (CCS).
- Appropriate ways to reduce population growth. We were 3 billion in 1960, 7.6 billion today. More people means more CO_2.



Credit: Eden Reforestation

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Will you help us?
Email us at charlesa@savingourplanet.net

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