

What can you do to save the planet

Paul Allen
Jo Hand



ZERO CARBON



Centre for Alternative Technology
Canolfan y Dechnoleg Amgen

BRITAIN



BRITAIN

RIISING TO THE CLIMATE EMERGENCY

How we can deliver net zero

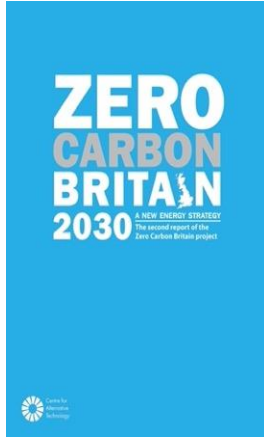
Zero Carbon Britain Hub & Innovation Lab

- Aim – to help governments, councils, businesses & communities to turn climate emergency declarations into action plans
- Zero Carbon Britain Training: ZCB Short course (740), Carbon Literacy (212), Bespoke sessions (1,142), Webinar/online events (2,349)
- Digital Hub – offers connections to help change happen
- Innovation Lab – facilitating a co-productive approach to identifying barriers and prototyping solutions; creating routes into larger scale impact or systems change

Building on 15 years of ZCB research and hourly modelling



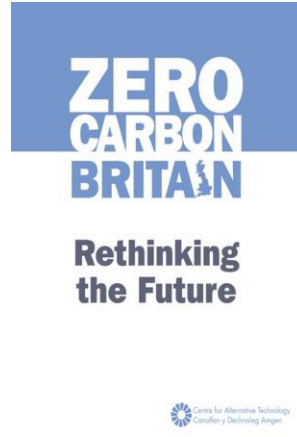
2007



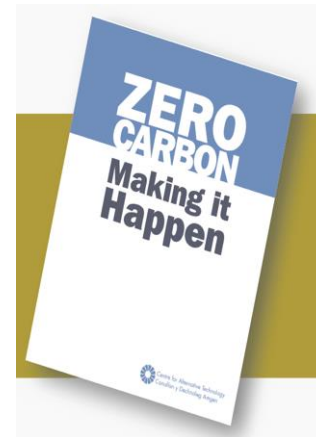
2010



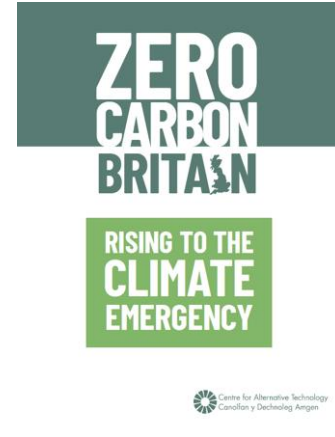
2013



2014



2017



2019

Power-down & Power-up

Integrating a smart approach to Power-down demand & Power-up 100% a clean energy supply in

buildings, transport, energy & land-use;
backed by natural carbon capture - the UK's greenhouse gas emissions can be reduced to net zero.



THE 4 DIRECTIONS

Organisations can make change happen simultaneously in four key directions

UPWARDS

For actions and resources needed to enable change on things beyond their own control, an organisation, group or NGO can lobby upwards within their own organisation / networks or to their local council, Devolved Government or UK Government.

Developing your local climate emergency action plan

4.5

SIDEWAYS

Leading by example encourages others to act. Groups can share their emergency declaration, plans, actions and asks - by acting together in regions or themed alliances we have much stronger influence.

INWARDS

From the CEO onwards, groups can get trained about the climate emergency, its causes, the necessary solutions and the roles they can play in driving a broader response.

SIDEWAYS

Sharing real-life projects between regions can demonstrate that change is achievable, and helps scale-up plans, avoid mistakes and maximise co-benefits, such as jobs, cost savings, health benefits or community cohesion.

DOWNWARDS

An organisation, group or NGO can declare a climate emergency and then act on things within their own control, e.g. shift to a green tariff energy, install solar, insulate buildings, ethical banking and pensions, switch transport, food, land-use etc.

Multi-solving – maximising the benefits beyond carbon





ZERO CARBON SHROPSHIRE

Shropshire Climate Action Partnership is being established to coordinate a collaborative Shropshire-wide community response to the climate and ecological crisis and oversee the creation of a Zero Carbon Shropshire Plan (ZCSP) that provides an adequate response to the emergency.



ZERO CARBON DORSET (ZCD)

Reducing emissions to net zero by 2030

The Zero Carbon Cumbria Partnership is working towards the shared aim of making Cumbria the first carbon-neutral county in the UK, by 2037.



GRADUATE SCHOOL OF THE ENVIRONMENT

ACT NOW FOR A SUSTAINABLE FUTURE

The Centre for Alternative Technology's courses provide the knowledge, skills, inspiration and networks to make a real difference in your chosen field.

[CONTACT US](#) →

[E-NEWS SIGN UP](#) →



Graduate School of the Environment

- MSc Sustainability and Adaptation
 - MSc Sustainability and Adaptation Planning
 - MSc Sustainability and Adaptation in the Built Environment
 - MSc Sustainability in Energy Provision & Demand Management
 - MSc Green Building
 - MSc Sustainable Food & Natural Resources
 - MSc Sustainability and Behaviour Change
 - MSc Sustainability and Ecology
- **Wide range of disciplines**
 - **GSE has trained over 2,000 masters students**
 - **Annual intake is at capacity**
 - **Graduates go on to deliver exciting work**

CAT graduates deliver positive change



Founded by CAT graduate Owen Morgan

- Cambridge Solar was named British Renewable Energy Installer of the Year in 2018



Agamemnon Otero MBE, since graduating from CAT founded:

- Repowering London
- Energy Garden
- Brixton Energy, developing renewable energy projects and creating opportunities for reskilling, energy efficiency services and investment

Short Courses at CAT

Day & short residential courses covering a range of sustainability issues



Energy

- Introduction to Renewables for Households, series of five

Green Living and Crafts

- Sustainable Woodland Management

Building

- A Way of Building: Using locally sourced materials
- Retrofit Masterclass

Green Renovation

- Eco Refurbishment

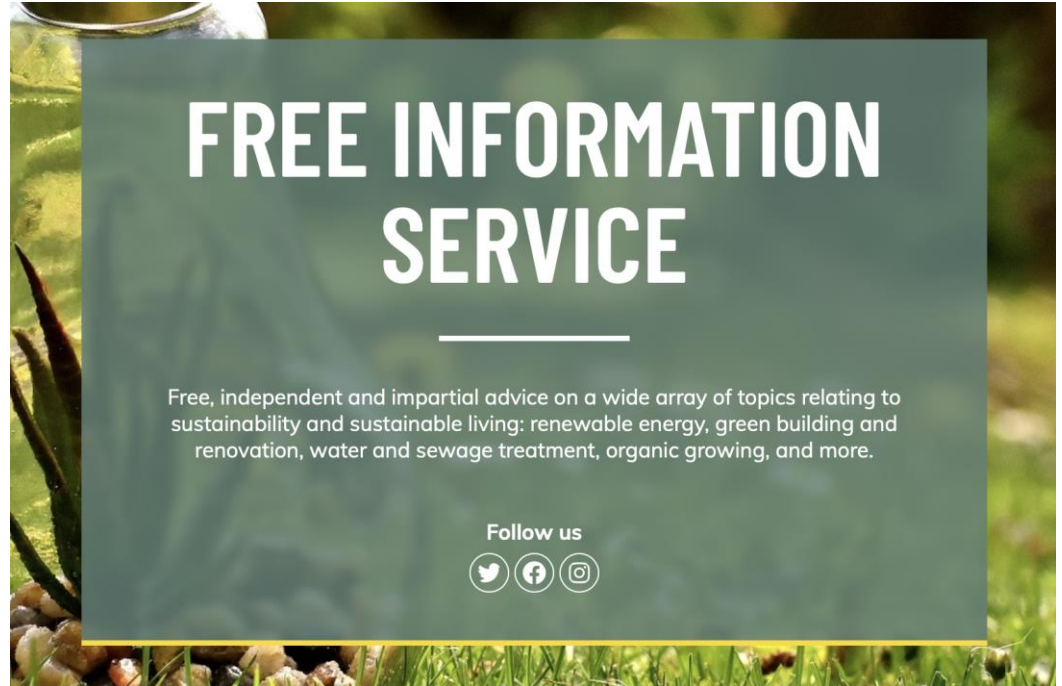
Water and Sanitation

- Waste Water Management

www.cat.org.uk/short-courses/

Free Information Service

- Energy
- Eco Renovation
- Building
- Green Living
- Water and Sanitation
- Nature and Growing





CO₂ Mixing Ratio



Living-Wales



Living Wales

Discover cutting-edge satellite earth observation and see our changing planet in a new way.

[FIND OUT MORE →](#)





Future plans

Action on climate change and biodiversity loss has never been more urgent. As an environmental charity, eco-centre and leading provider with 50 years of experience in sharing skills and solutions, CAT is needed more than ever before.

CAT has an increasingly important role to play in helping bring people together to explore, implement and share solutions – and we've seen a huge surge in interest in recent years.

We have ambitious plans to rapidly scale up our work, motivating many more people to take action at all levels – from policymakers and businesses to communities and individuals.



Many thanks to



From





Giki Zero Pro

Think Carbon, Cut Carbon



Social Enterprise UK
Certified Member

Certified



Corporation

Proudly selected for



TECH NATION
NET ZERO

Giki

Think Carbon, Cut Carbon

Our mission is to empower people with the knowledge and tools to reduce carbon and transform our world, step by step

- Giki is an evidence led **B-Corp** and social enterprise
- Giki Zero Pro will help you **create a culture with sustainability** at its core
- We work with community groups, small business and **global companies** helping them all reduce carbon emissions
- **Led by sustainability pros**, supported by climate experts and backed by COP26 Climate Champions and UK government's Tech Nation Net Zero programme





Giki Zero Pro

Platform and Engagement Programme designed to work together

Science based Platform

- Helps people understand and cut **personal carbon footprints**
- Teams and Leaderboards boost **competition** and participation
- **Measure** your collective achievements

Engagement Programme

- Easy to implement campaigns keep **sustainability top of mind**
- Our **experienced Impact Directors** will support your Chief Greenies every step of the way, from launch planning through to long term management
- Impact Services if you want to **lean on us** for extra engagement



The background is a light blue sky with various decorative elements: a large orange sun in the top left, a pink and yellow flower in the top right, a green leaf with yellow veins in the top right, a yellow boot with red laces in the bottom right, and a green plant with orange flowers and bees in the bottom left. A white cloud is at the bottom center.

MATERIAL IMPACT

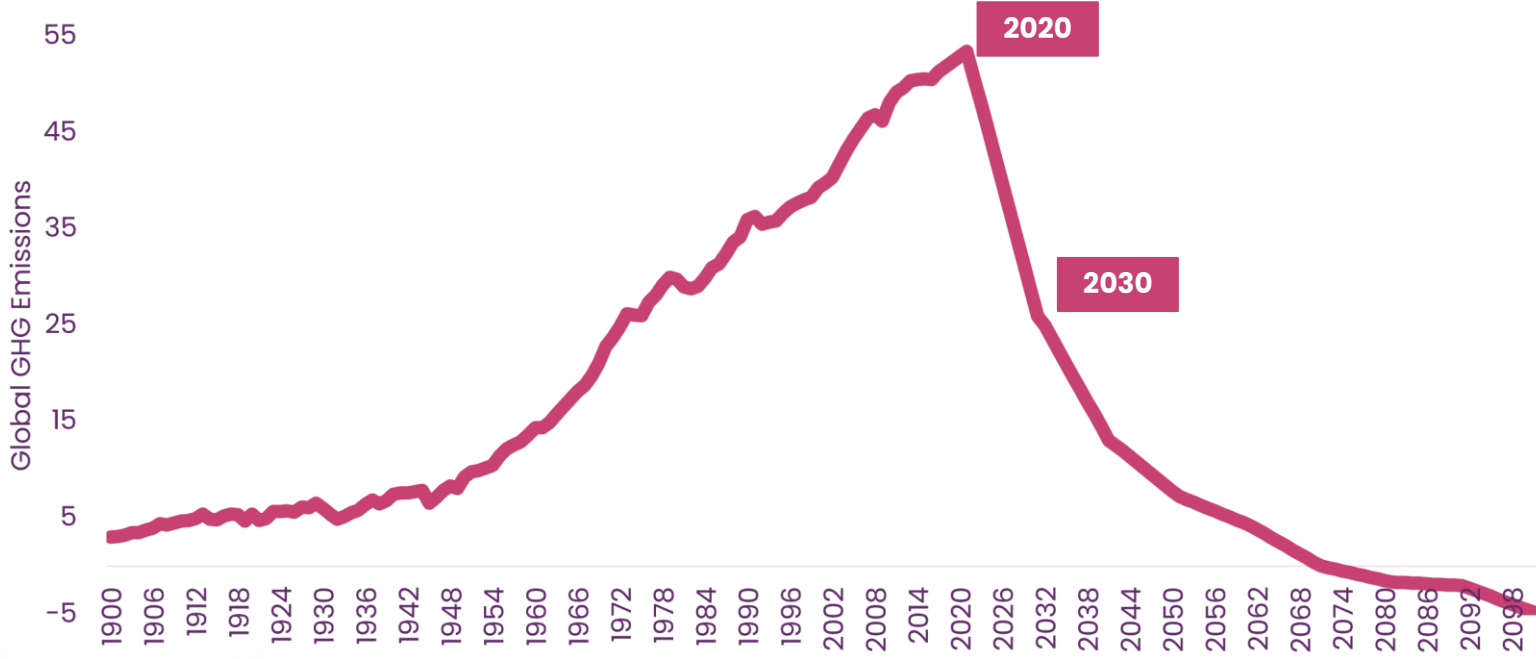
“
**Your employees’ personal
carbon footprints can be up
to 10x the footprint of the
company.**
”

**1 STEP
AT
A TIME**



Emissions need to halve this decade

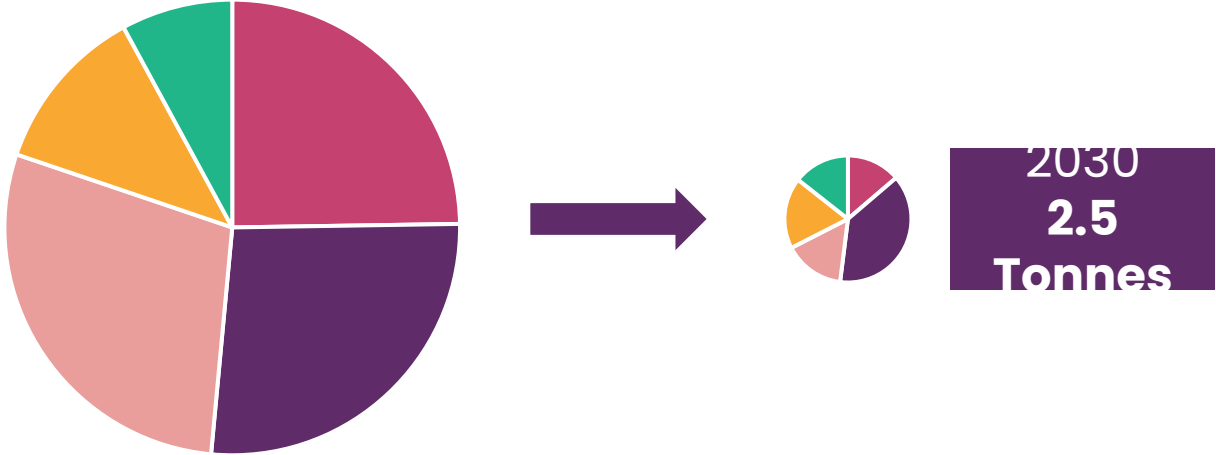
70% of emissions come from people



Source: Climate Action Tracker and OurWorldInData.org



We can cut our footprints by 75%



■ Home ■ Food ■ Transport ■ Purchases ■ Services



People have the power to change the world

- 150 steps to **Think Carbon and Cut Carbon** for every lifestyle and budget, with tips, facts and useful links
- From greening your home, to eating sustainably and travelling lightly
- Select from **Quick Wins to Big Impact**





Some of our clients





TAKE A STEP!

<https://zero.giki.earth/>



Panel discussion

Lunch

12.45pm – 13.45pm