



ZERO CARBON



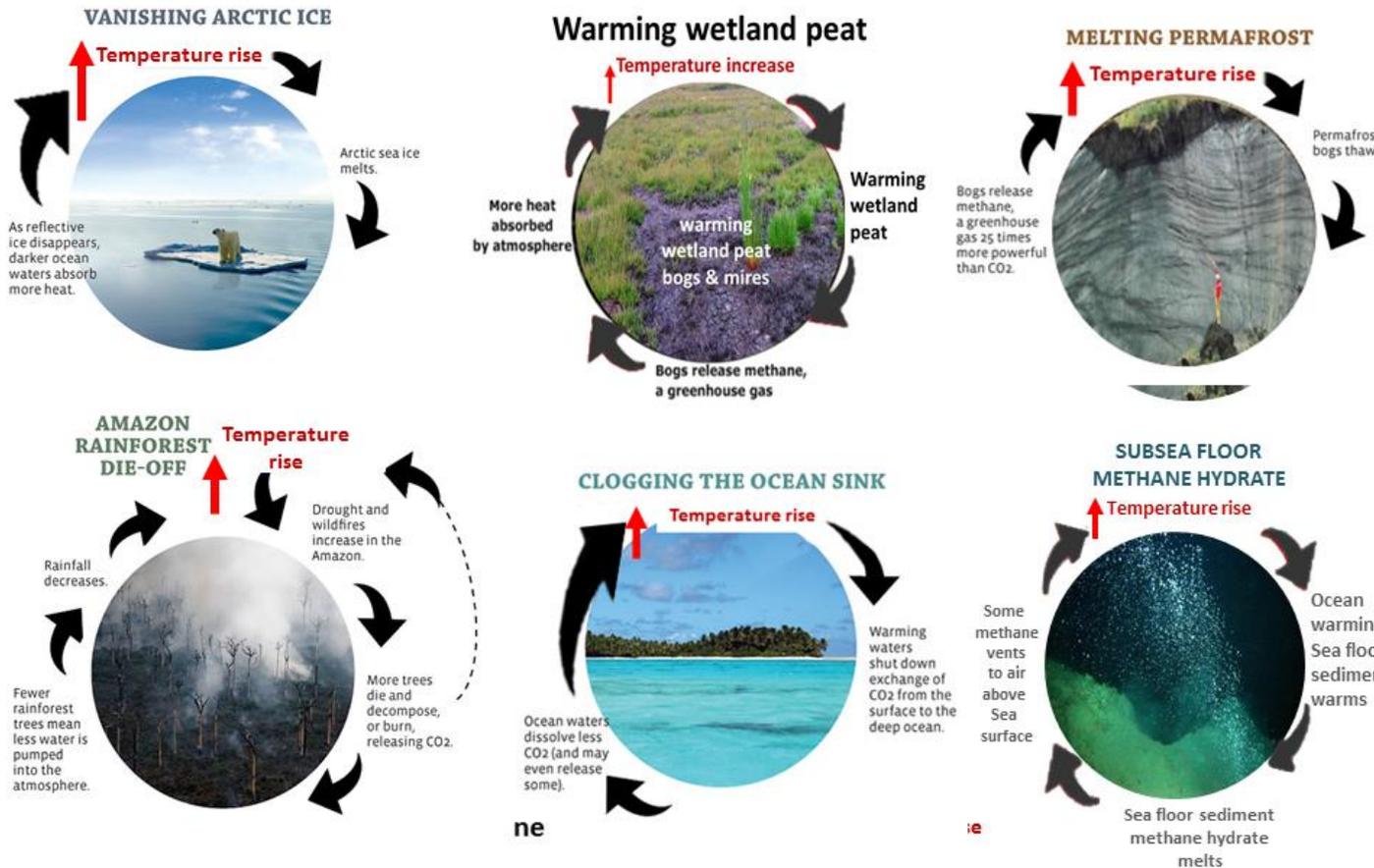
Centre for Alternative Technology
Canolfan y Dechnoleg Amgen

BRITAIN
RISING TO THE CLIMATE EMERGENCY

SW Net Zero Hub; how CAT can help...

Rooted in 'Emergency Thinking'...

Some large +ve amplifying feedbacks



Climate change: 'Fifty-fifty chance' of breaching 1.5C warming limit

By Matt McGrath
Environment correspondent

1 day ago | Comments

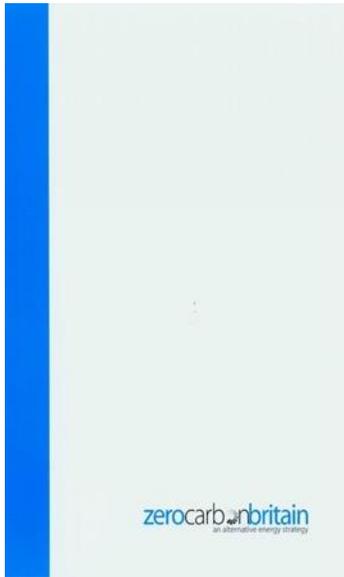


Rising temperatures are linked to more extreme weather events such as these floods in China

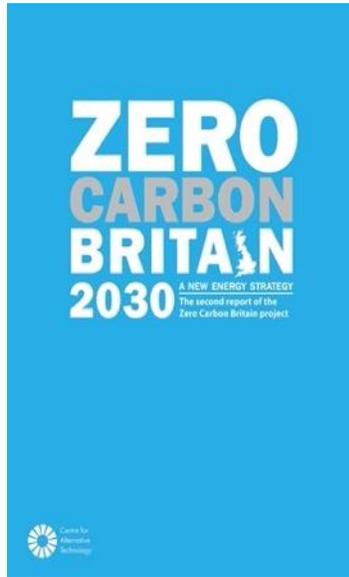
Zero Carbon Britain Hub & Innovation Lab

Aim – to help governments, councils, businesses & communities to turn climate emergency declarations into action plans

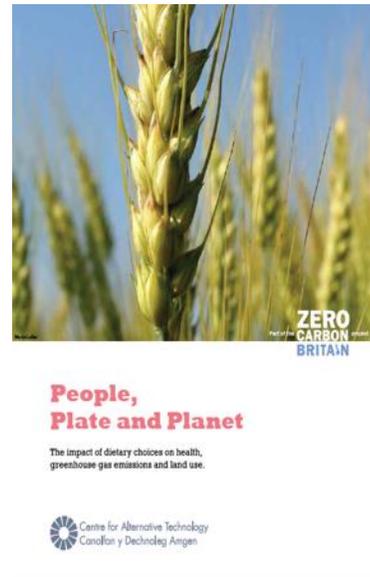
Building on 15 years of ZCB research and hourly modelling



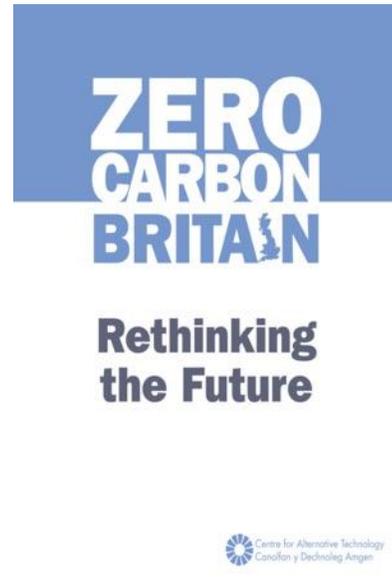
2007



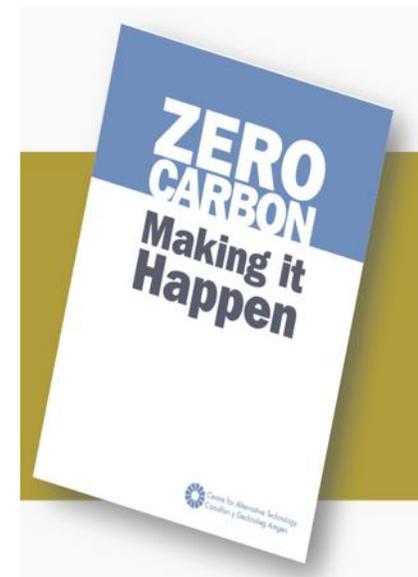
2010



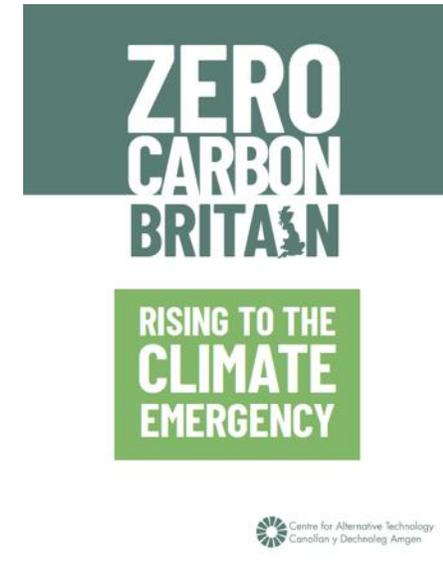
2013



2014

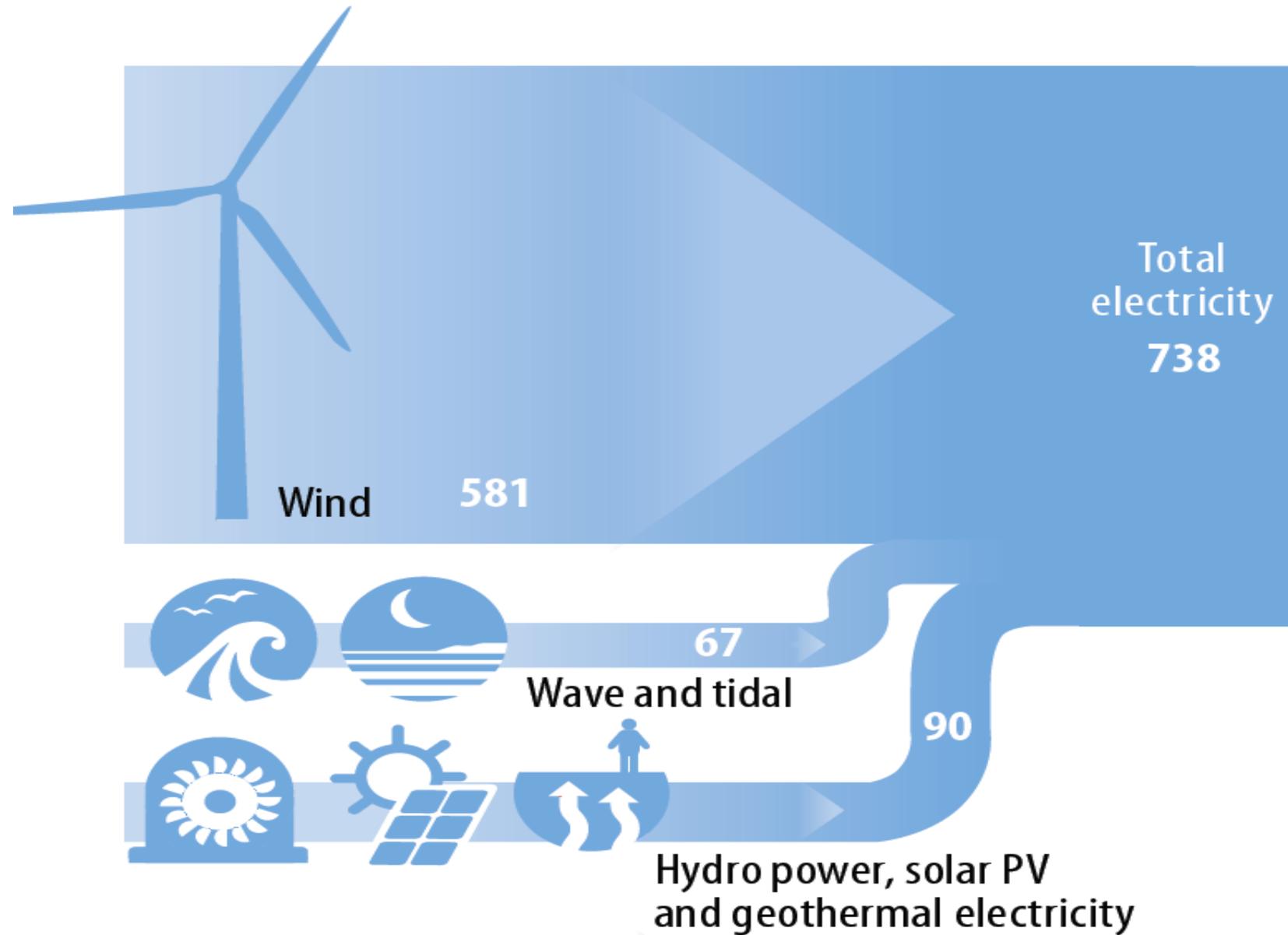


2017



2019

The ZCB Energy Model is based on ten years of real-world hourly data from 2002 – 2011
87,648 hours



THE 4 DIRECTIONS

Organisations can make change happen simultaneously in four key directions

Explored in 2019 ZCB report

UPWARDS

Local councils can collectively lobby district or county councils, or government, for actions beyond their own jurisdiction and for the resources needed to enable solutions.



INWARDS

Councils can train their staff about the climate emergency, the necessary solutions and the role the council must play in driving a broader response.



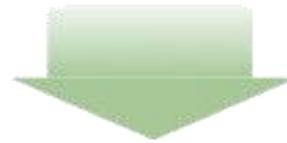
SIDEWAYS

Councils can learn from real life projects in other areas and then trial them locally - sharing what works and what doesn't.



DOWNWARDS

Council policy and budgets can drive action within their jurisdiction; e.g. in transport systems, food purchasing or the buildings and land use controls.



SIDEWAYS

Leading by example encourages others to act. Councils can share their declaration, their action plan and key lessons from real life projects.



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.

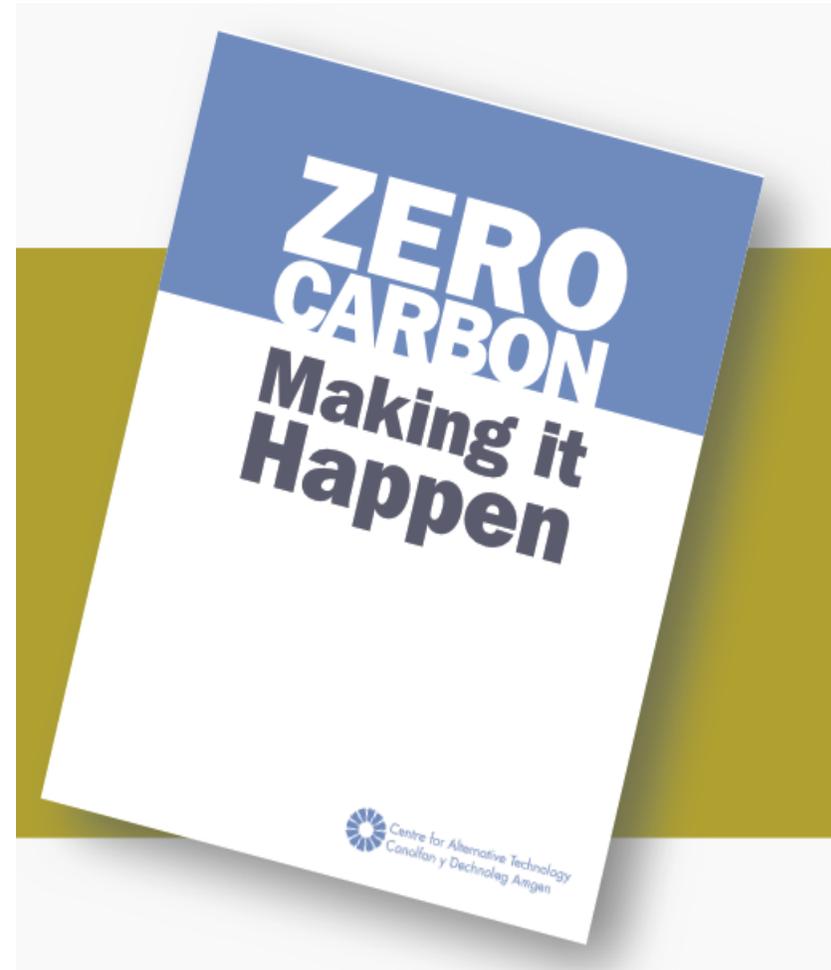
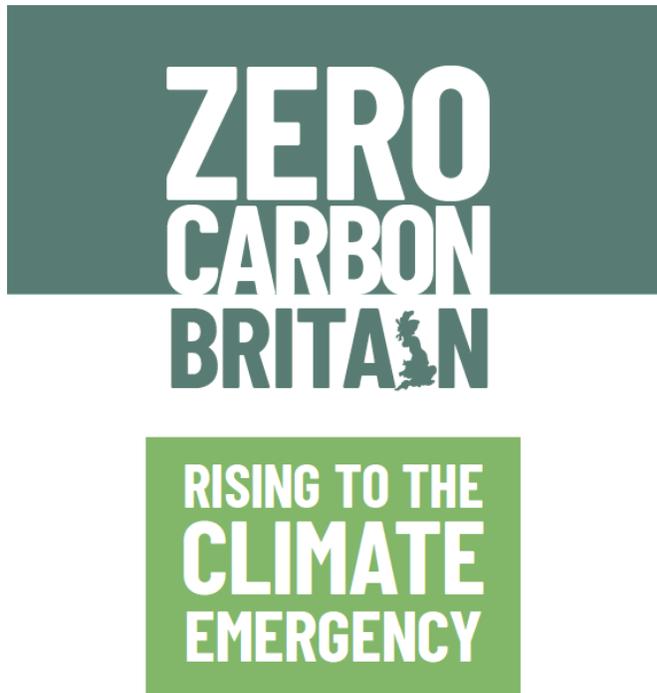
DOWNWARDS

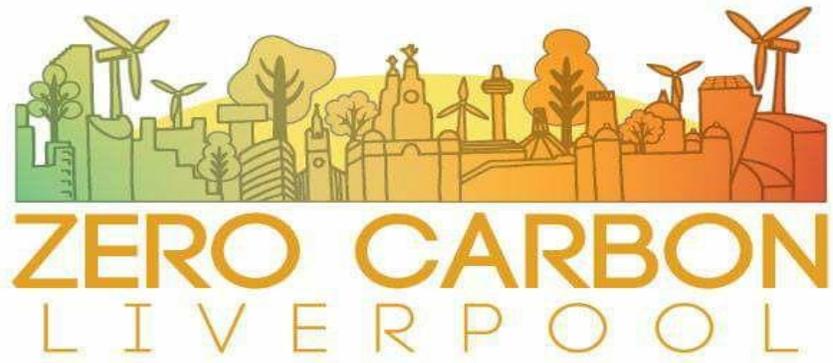
An organisation, group or NGO can declare a climate emergency and then act on things within their own control, e.g. shift to a green tariff energy, install solar, insulate buildings, ethical banking and pensions, switch transport, food, land-use etc.

Multi-solving – maximising the benefits beyond carbon



Free to download





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.



Zero Carbon Britain: Live online

NOVEMBER 17, 2022 - NOVEMBER 18, 2022

[Home](#) » [Zero Carbon Britain: Live online](#)

Carbon Literacy Training



This is to certify that via
Sample Organisation
Sample Name

has met all the requirements of the Carbon Literacy Standard and thus for the purposes of workplace, education and community should be regarded as Carbon Literate.

signed

Mi Abbas, Chair, on behalf of The Carbon Literacy Trust.
Registered Charity Number 1156722

date certificate no.
30th March 2014 00000000 / v1.05



certificate

Certification

Participants must undertake a day of learning accredited by the Carbon Literacy Project.



Zero Carbon Britain: Carbon Literacy for Local Authorities

JUNE 29, 2022 - JUNE 30, 2022

Home » Zero Carbon Britain: Carbon Literacy for Local Authorities



RESOURCE HUB

ZERO CARBON BRITAIN

Freely available online inspiration, tools, reports, guidance, training, webinars and more, to support your action on net zero.

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INNOVATION LAB

ZERO CARBON BRITAIN

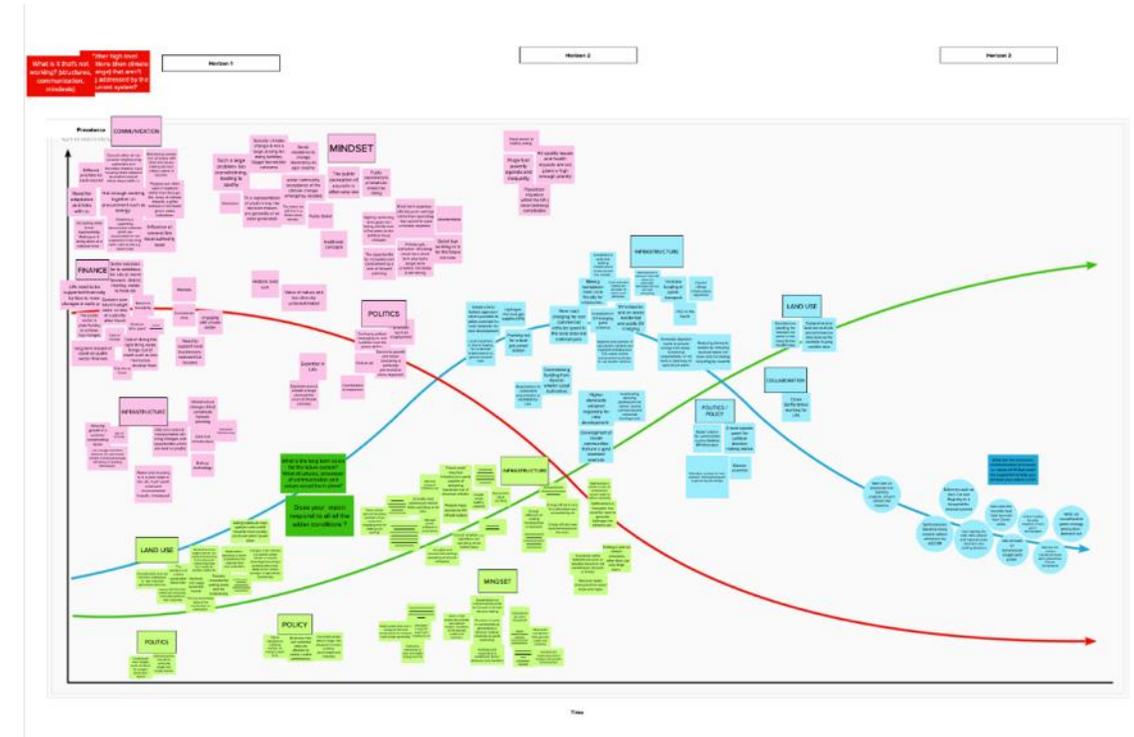
Bringing multi-stakeholder groups together to explore and experiment with new ways of doing things to make net zero happen.

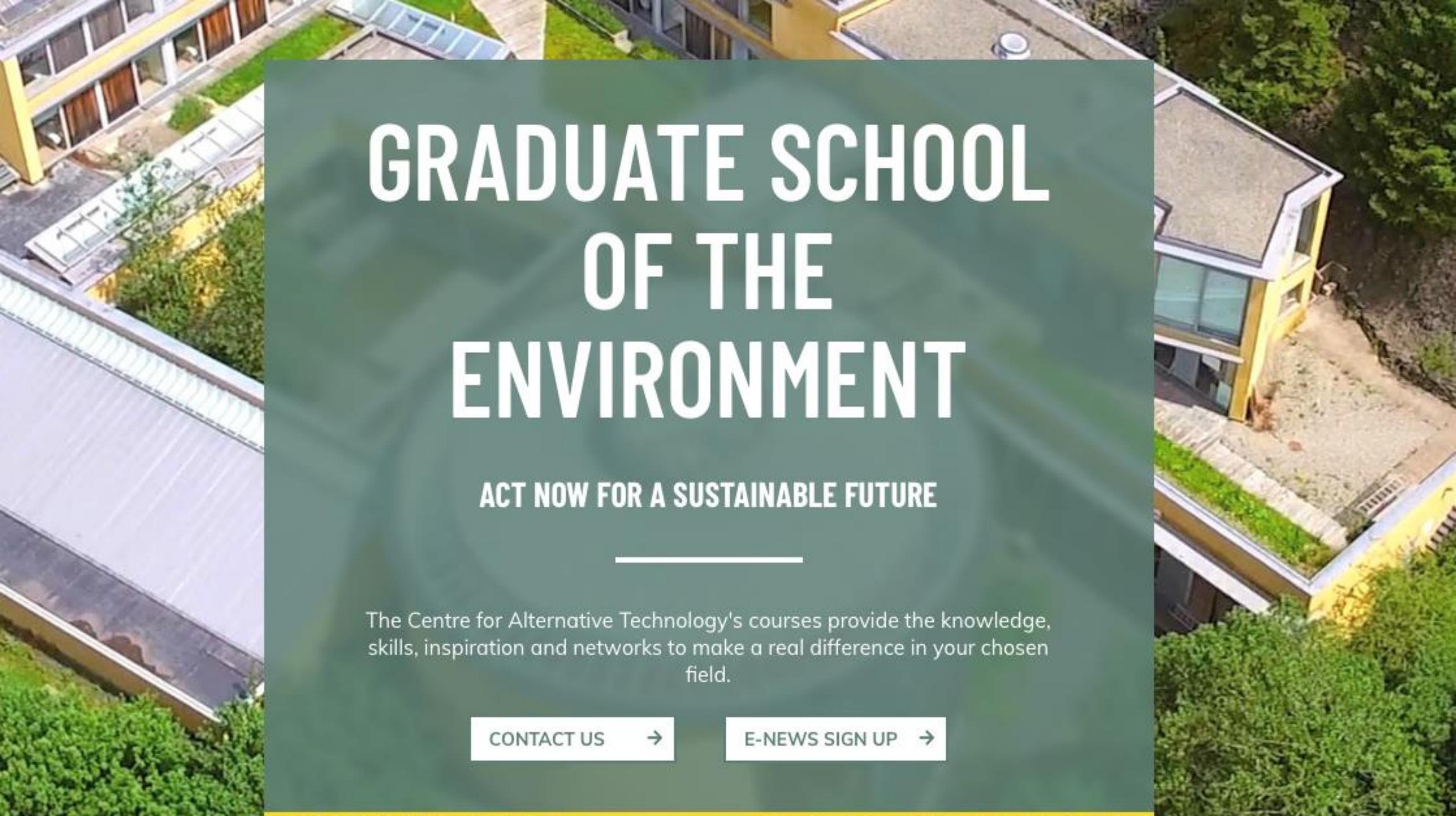
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Lab findings

- Governance systems need to empower staff to lead on change.
- Systems-thinking needs to be built into all processes and decision making.
- Avoiding silo working – can provide opportunities to work across teams and share knowledge/skills.
- Identifying your stakeholders can enable you to find partners or influence other parties which can enable change and action.
- Collaborating with others provides opportunities to learn from their practice, and share learning and experience.
- Collaborating with others, either internally or externally, can maximise resources and enable co-benefits to be realised – i.e. health and wellbeing.





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.

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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

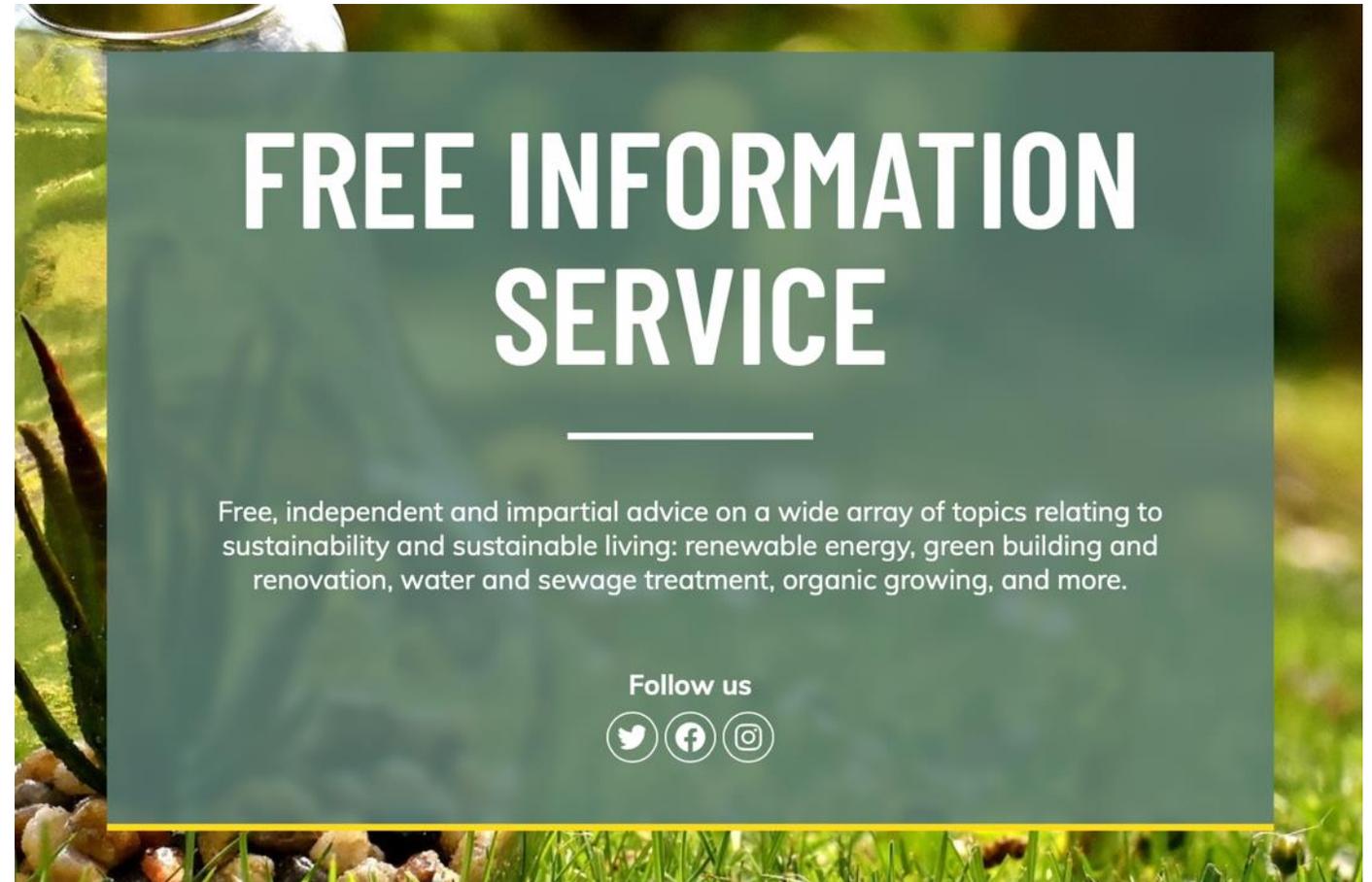
Water and Sanitation

- Waste Water Management

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

Free Information Service

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







Centre for Alternative Technology
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- **Zero Carbon Britain reports**
- **Hub and Innovation Lab**
- **Postgraduate degrees**
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Sustainability and Ecology

Sustainability and Adaptation

Sustainability and Behaviour Change

Sustainability and Adaptation Planning

Sustainability and Adaptation in the Built Environment

Sustainability and Energy Provision and Demand Management

Sustainable Food and Natural Resources

Green Building

MArch Sustainable Architecture

