



COP26 2021

5 November 2021
11.30 AM - 12.45 AM (UK time)



Local Climate Solutions & Eco-Village Development, 100% RE in NDCs, East Africa, South Asia, Europe

Zero Carbon Britain

The Benefits of National Scale Scenario Modelling

by Paul Allen, Centre for Alternative Technology, Wales, UK



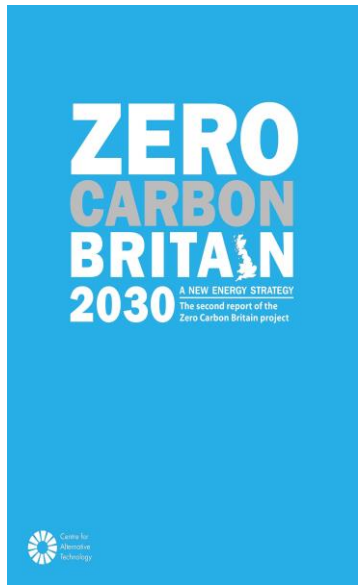
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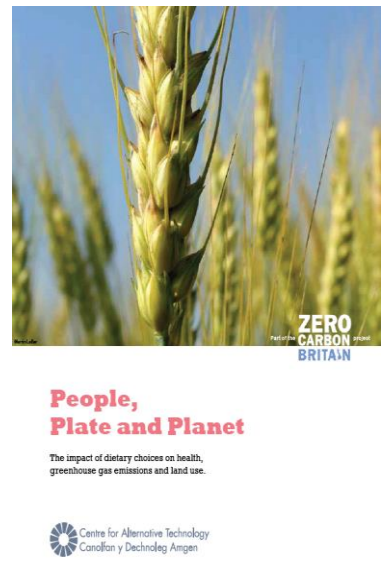
A national scale hourly model un-leashes new conversations!



2007



2010



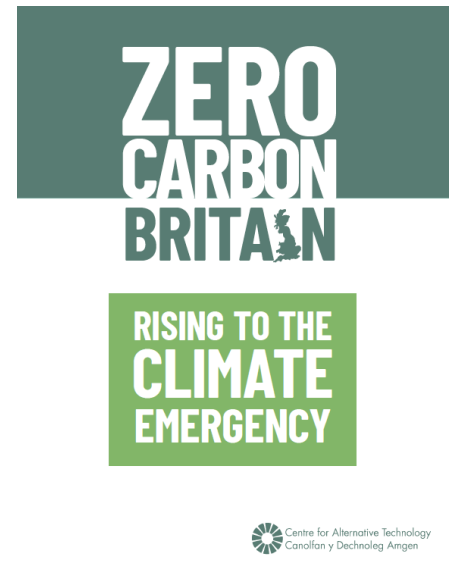
2013



2014



2017



2019

Power-down

By integrating a smart approach we can Power-down demand for buildings, transport, energy & land-use;

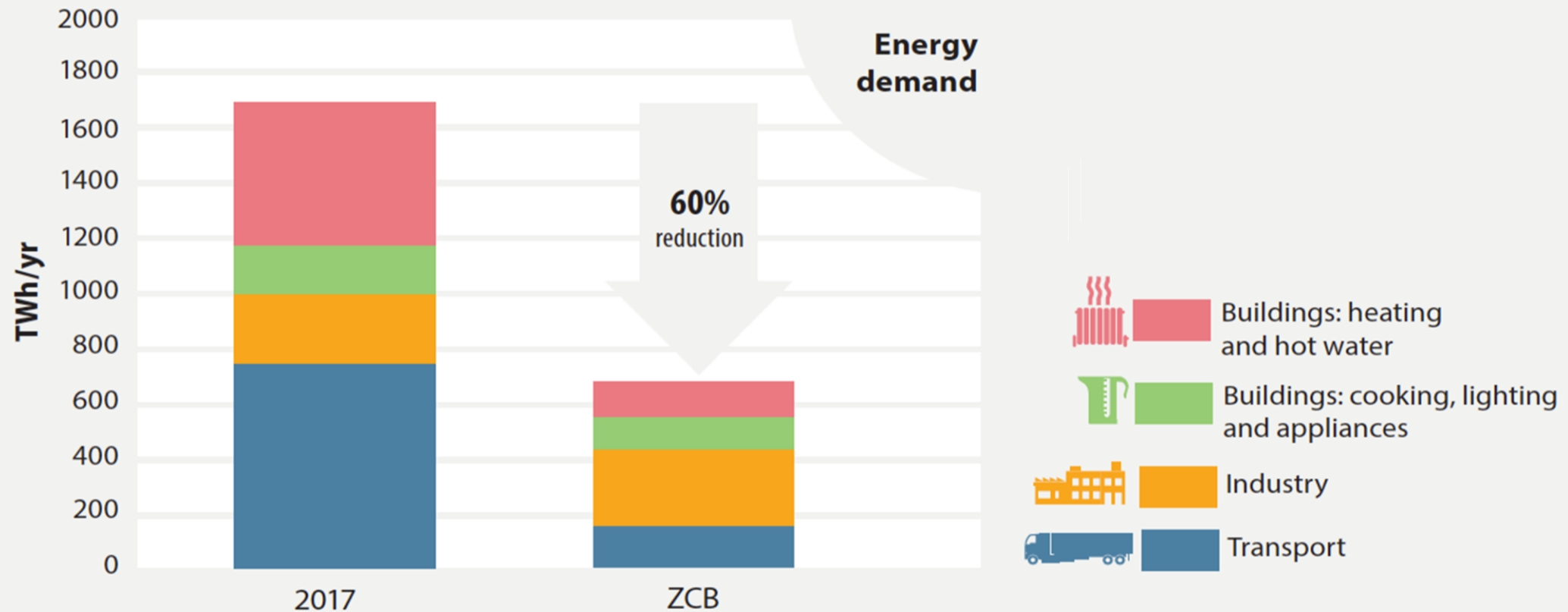


Figure 3.4: Total annual energy demand by sector in the UK in 2017 (BEIS, 2018) and in our scenario.

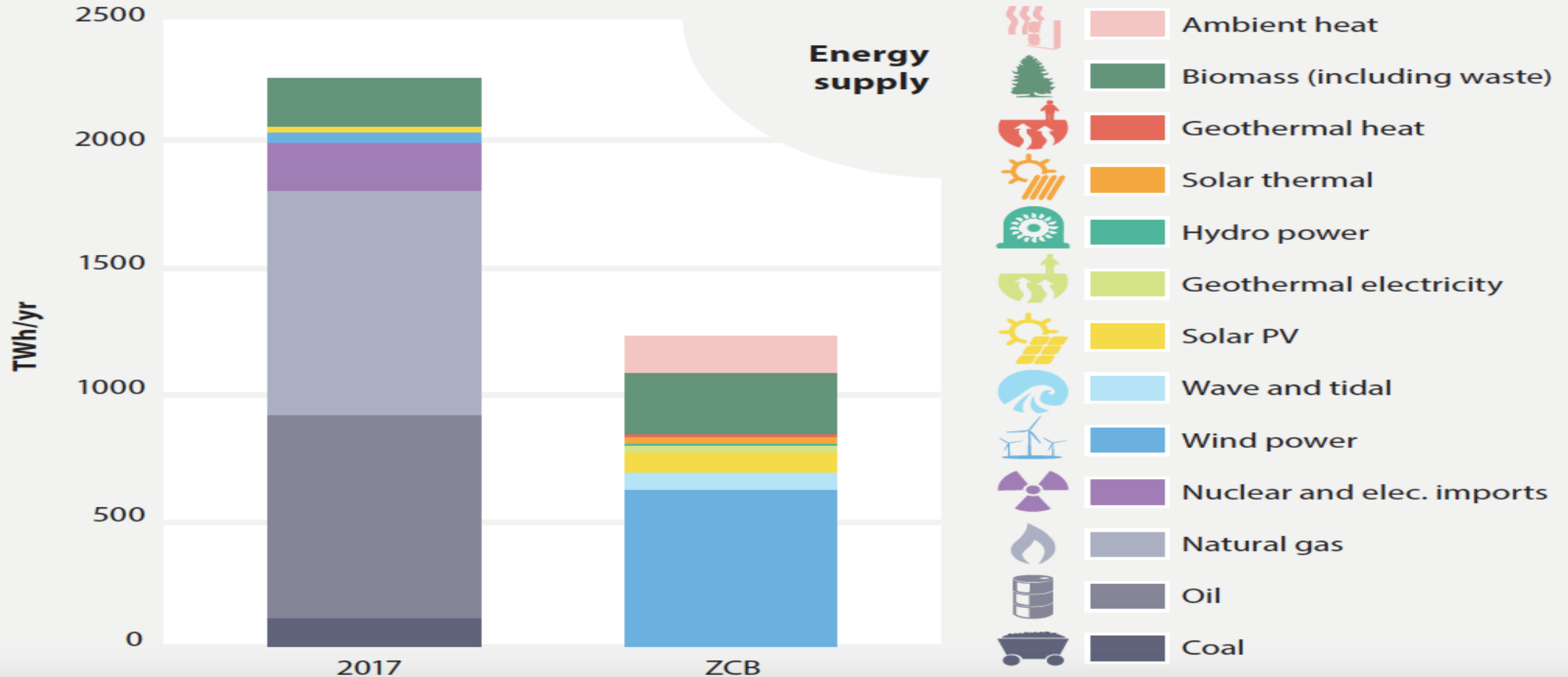


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Power-up

We have the technology to Power-up 100% clean energy for buildings, transport, energy & land-use;

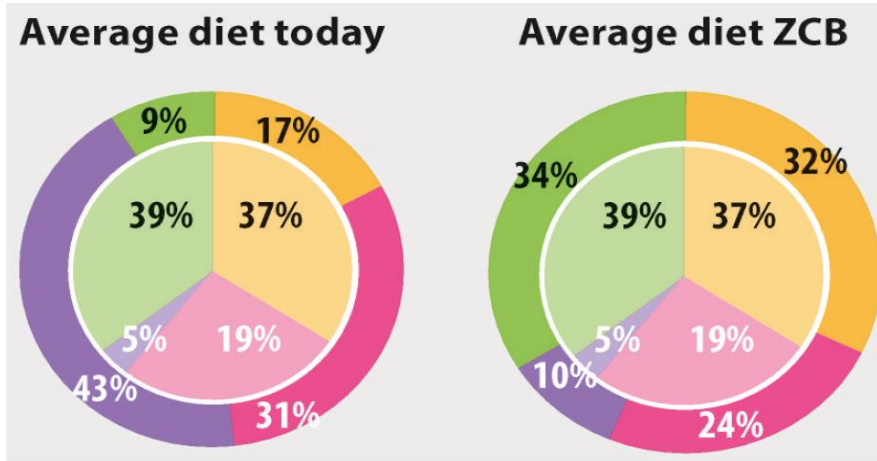


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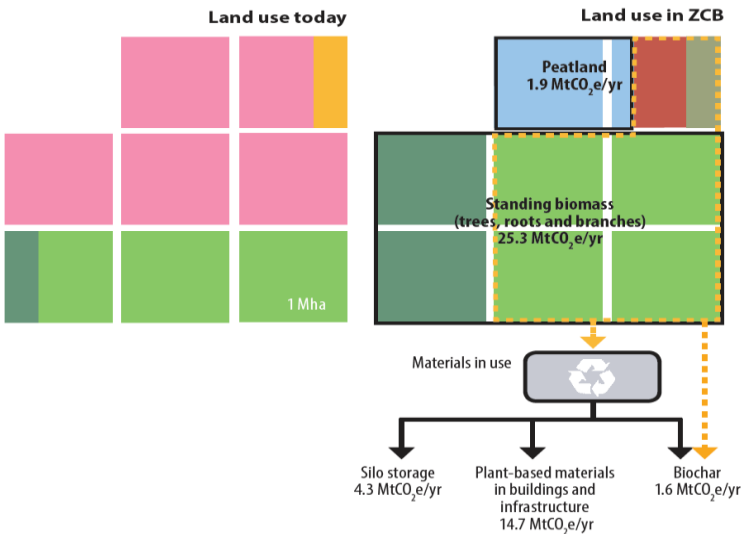
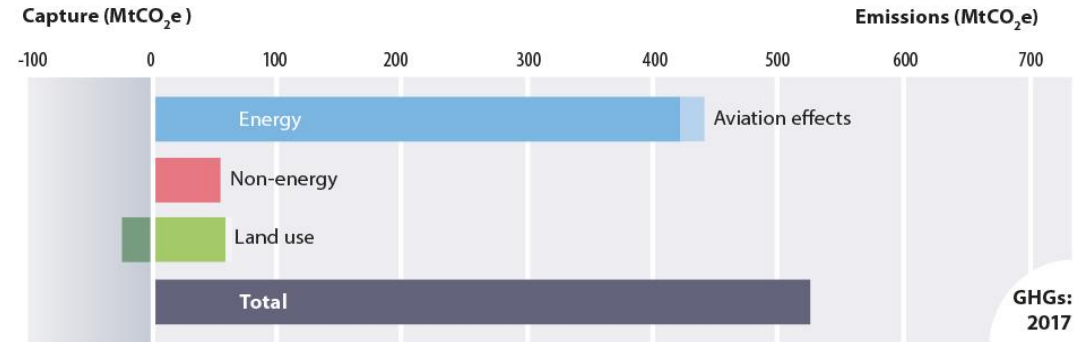


Land-use

Backed by natural carbon capture - the UK's residual emissions can be reduced to net zero.



GHG baseline 2017 emissions



- Double forest area.
 - Increase use of wood products.
 - Restore 50% of peatlands.
- Balance GHG emissions of
~ 47 MtCO₂e/year

GHG emissions in our model



Key Clients:

- UK Government
- Devolved Governments
- Over 60 Councils across the UK
- Business
- Arts
- Citizens & communities

Using our scenario to drive change...

- Catalyse new thinking
- Inspire new research
- Help re-imagine local areas
- Think across silos
- Power of a positive vision

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.

SIDWAYS

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.

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.

Carbon Literacy Project



SIDWAYS

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.

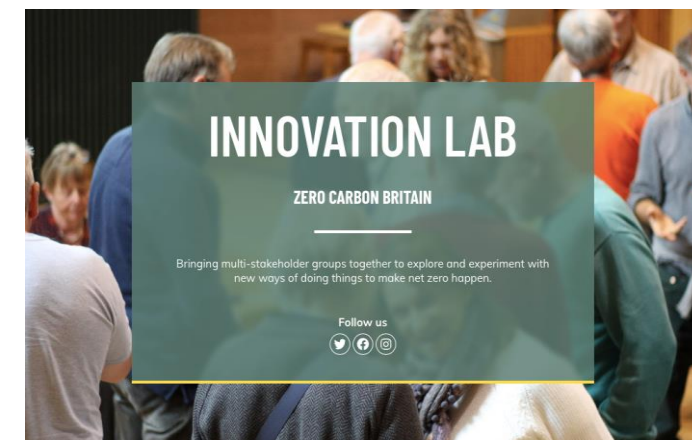
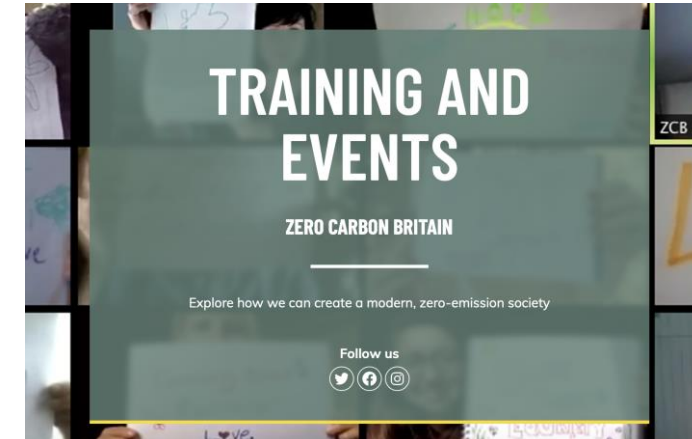


Diverse partners...



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.



UNFCCC OP26 Side Event - Glasgow, UK: Local Climate Solutions & Eco-Village Development, 100% RE in NDCs, East Africa, South Asia, Europe // INFORSE - INSEDA - SUSWATCH - SE 5/11 2021, 11:30-12.45, Loch Lomond

Thank you

Proceedings: www.inforse.org/cop26.php3

More info: Centre for Alternative Technology
www.cat.org.uk



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