

ZERO CARBON

Making it Happen

***The science behind the 'Paris Agreement'
clearly recognises the need for zero carbon.***

Paul Allen, Center for Alternative Technology, Wales, UK

Starting the transition to zero emission societies

UNFCCC COP22 Mini-side event Climate Change Studio

Marrakech, Morocco, 15/11/2016

Climate science is proven

- The fact that countries have now signed the Paris Agreement to avoid the biggest threat humanity has ever faced is a **major accomplishment**
- This is a key turning point in **accepting the science.**



PARIS2015
UN CLIMATE CHANGE CONFERENCE
COP21·CMP11

We have the technology

zerocarbonbritain
an alternative energy strategy

In collaboration with:

publicinterestresearchcentre

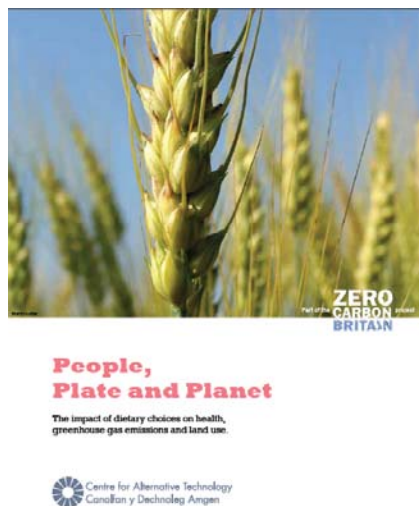
2007



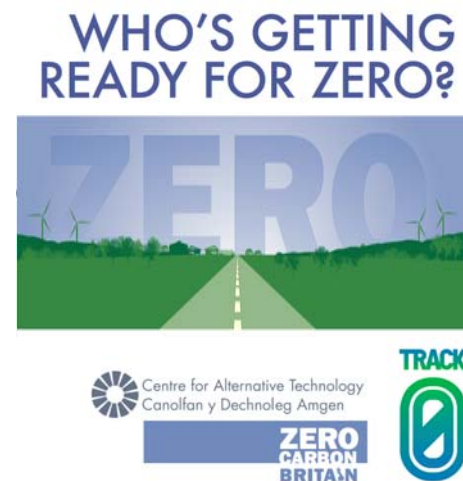
2010



2013



2014



2015

What next?

more detailed technical scenarios will not, in itself, bring about the change required.

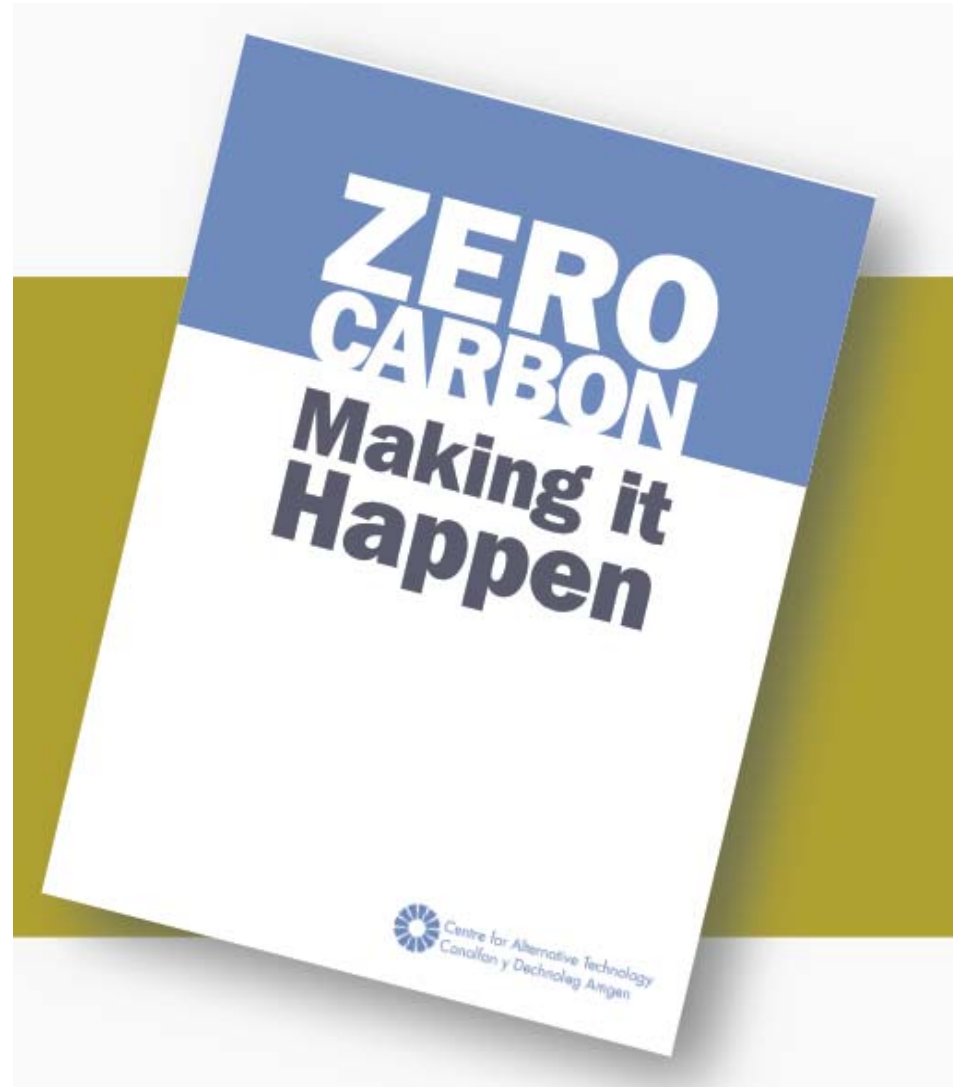
- So what *should* we do?



- Changing how millions of people live is a special kind of problem – **there is no single barrier.**
- We must show **how** we can overcome them.

How do we overcome the barriers?

- Science*
- Technology*
- Economics
- Psychology
- Philosophy
- Sociology
- History
- Democracy
- Law
- Culture
- Spirit



Stories for change: Sarah Woods

BBC RADIO 4 Afternoon Drama

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Getting to Zero

GETTING TO ZERO
By Sarah Woods
With George Monbiot, Paul Allen and Peter Harper.

🕒 45 minutes


BBC RADIO 4extra Sarah Woods -
Speck of Dust
Omnibus

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News from Nowhere

News from Nowhere is a classic piece of futuristic writing, first published in 1890 by artist, designer and socialist William Morris. Its central tenet - that society should refine the value of work and thrive...

🕒 45 minutes

4 sectors we must change to get to zero are;

Food, Transport, Buildings, Energy

- Where we are now
- What needs to change

Food



Credit: Feedback

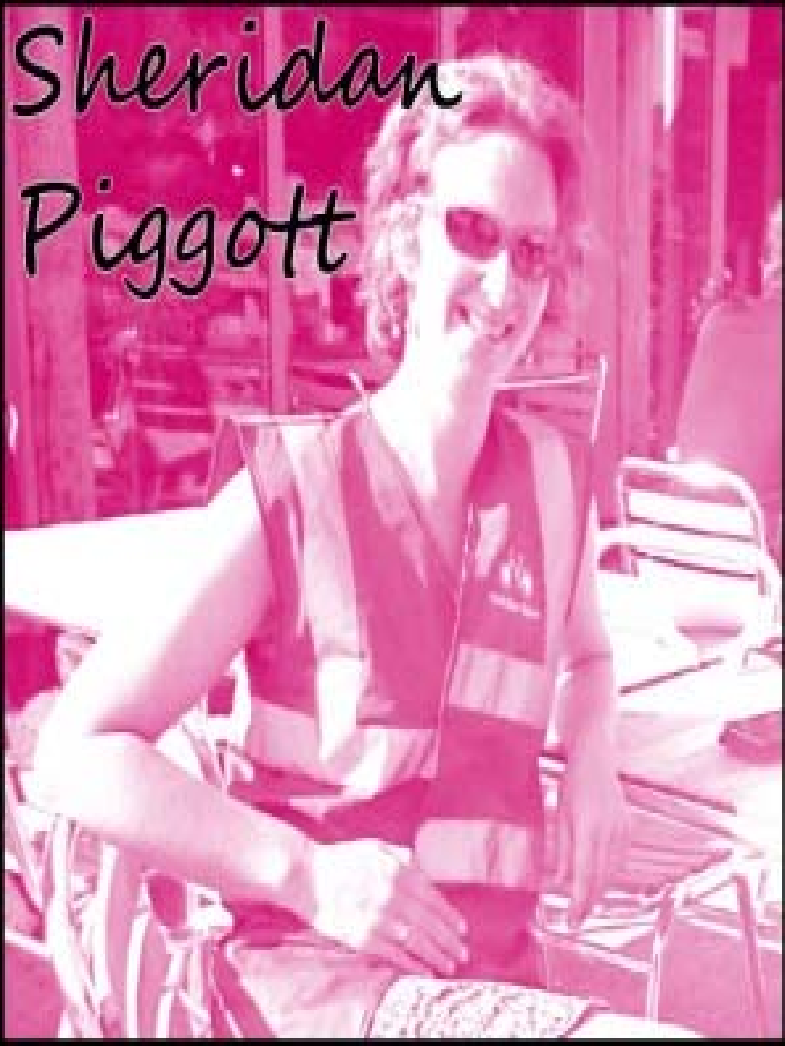
Transport



Credit: York Bike Belles

Sheridan Piggott

Founder of Bike Belles



“If you can demonstrate to people that what they are doing is not just good for the planet but will improve their quality of life and they’ll have a great time doing it, that is transformational”.

Buildings





ARNO

SCHMICKLER

Programme Director,
Energiesprong UK

“I’m an architect by background. Coming to Britain, it’s almost impossible what people put up with in terms of the quality of the building stock. It’s appalling to see what’s still being delivered today in terms of energy efficiency in the UK”.

Energy





Agamemnon

Otero

CEO, Repowering London

“We work with local authorities, national government, energy companies and developers - we exist within the broken system. Hopefully we get people to move from one system to the next, so instead of breaking the shell, we make the new shell while working in the old. It's transformation”.

Looking across the disciplines

- Barriers to change
- Making it Happen

Changing Values



Credit Muslim Climate Action

Communications

WE DID IT!

LEGO BLOCKS SHELL



Credit: Greenpeace



Psychology & Behaviour

Credit: Green Open Homes

Carbon Lock In



Economics and Finance





Politics and Governance

Credit: Sustainable Development Alliance

Some key Conclusions:

Can the current market be used to address society, manufacturing and planning

- A level financial playing field (externalities & subsidies)
- Recognise vested interests and carbon lock-in
- Correct misinformation & media bias
- Income from energy, transport etc. belongs to society
- Connecting with nature & each other make us act and happier
- By breaking prevailing climate silence & realising a great many of us feel this way, we forge a collective identity
- **Believing we can get to zero this is the key factor**

“The history of social change is the history of millions of actions, small and large, coming together at certain points in history and creating a power which governments cannot suppress.”

Howard Zinn (2003)

Please pick up a flyer

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Centre for Alternative Technology
Canolfan y Dechnoleg Amgen