

UNFCCC COP22 Side-event, Marrakech, Morocco

11 November 2016 - Time: 16:45 - 18:15 Room: Mediterranean

Improving NDCs: Ecovillage Development, Energy Access & Zero Carbon Societies in Africa, Asia & EU.

How can local solutions in South and North lead to ambitious NDCs, provide energy access & improve livelihoods?



Nordic Folkecenter for Renewable Energy – INFORSE-Europe Session:

Transition to 100% Renewable Energy and Zero Carbon Economies with Local Solutions



- *Transition to Zero Carbon - how we can make it happen in the UK, based on new report.*
By Paul Allen, Center for Alternative Technology, Wales, UK.



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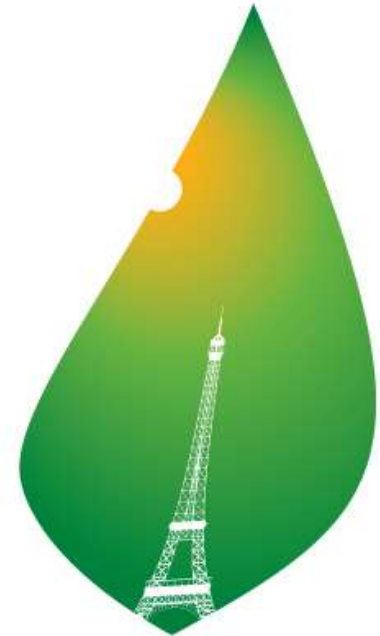
***The science behind the 'Paris Agreement'
clearly recognises the need for zero carbon.***

*Transition to Zero Carbon - how we can make it happen in the UK,
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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



In collaboration with:

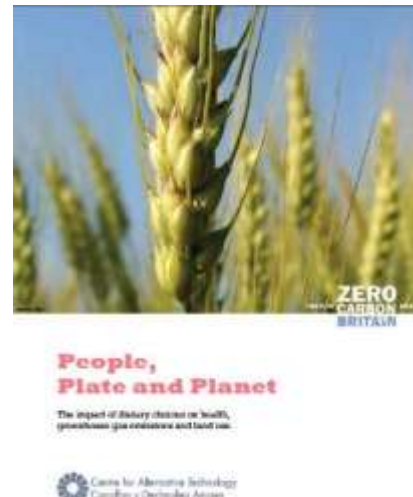
public interest research centre
2007



2010



2013



2014



2015

100 ambitious scenarios

WHO'S GETTING READY FOR ZERO?

Country	Who	What	URL
Australia	Beyond Zero Emissions	<i>Zero Carbon Australia</i>	http://bze.org.au/
Belgium	Vito & Belgian Federal Planning Bureau	<i>Towards 100% renewable energy in Belgium by 2050</i>	http://energie.wallonie.be/servlet/Repository/130419-backcasting-finalreport.pdf?ID=28161
Bhutan	Royal Government of Bhutan	<i>A national strategy and action plan for low carbon development</i>	http://www.ea-energianalyse.dk/reports/1148_bhutan_a_national_strategy_and_action_plan_for_low_carbon_development.pdf
Chile	Mitigation Action Plans & Scenarios (MAPS)	<i>MAPS Chile – Mitigation options for a low carbon development</i>	http://www.mapsprogramme.org/wp-content/uploads/Chile-Phase-2-Synthesis-of-Results_English_Final.pdf
Costa Rica	Costa Rica Climate Change Dep.	<i>Carbon Neutral by 2021</i>	http://www.cambioclimaticocr.com/2012-05-22-19-47-24/empresas-y-organizaciones-hacia-la-carbono-neutralidad-2021
Croatia	University of Zagreb	<i>Planning for a 100% independent energy system [in Croatia]</i>	http://www.sciencedirect.com/science/article/pii/S1359431111001463

What next?

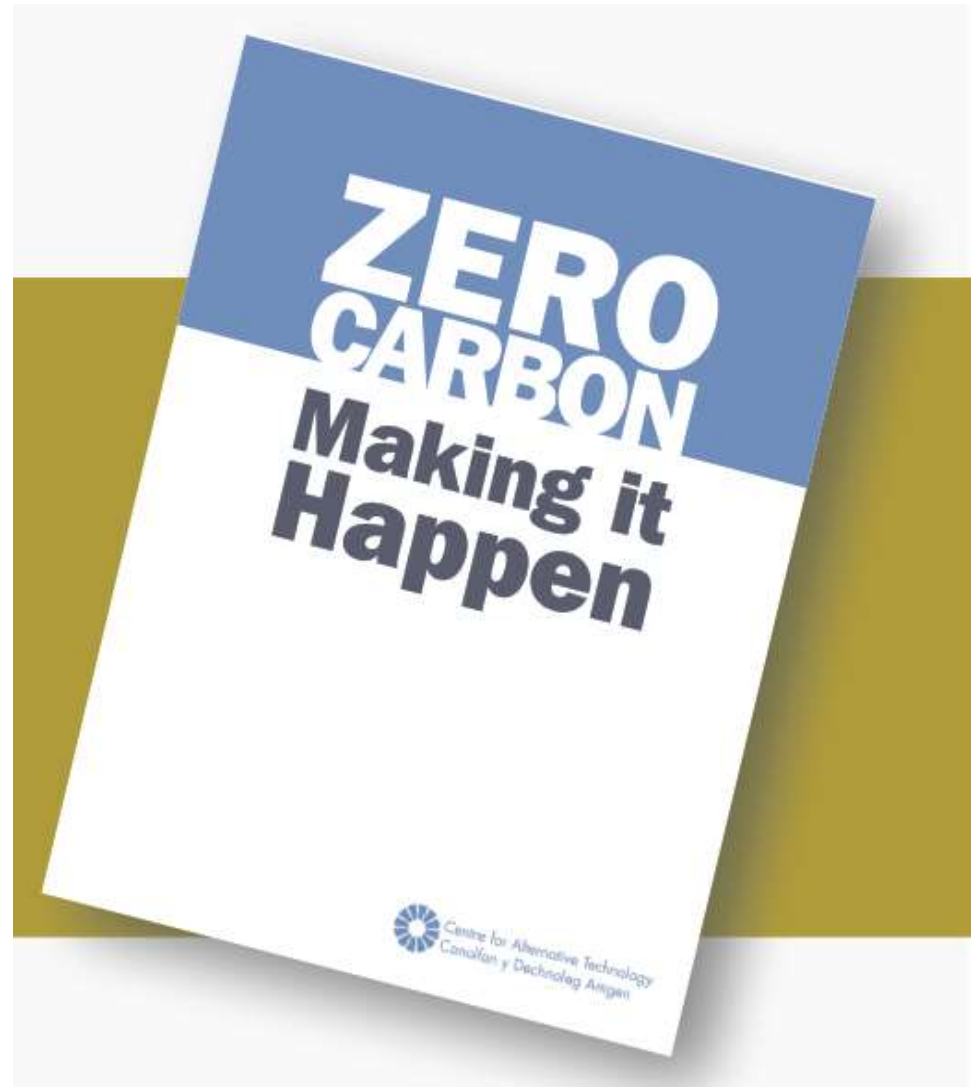
- We recognise that simply doing ever more detailed technical scenarios will not, in itself, bring about the change required.
- So what *should* we do?



- 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

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Getting to Zero

GETTING TO ZERO

By Sarah Woods

With George Monbiot, Paul Allen and Peter Harper.

⌚ 45 minutes



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

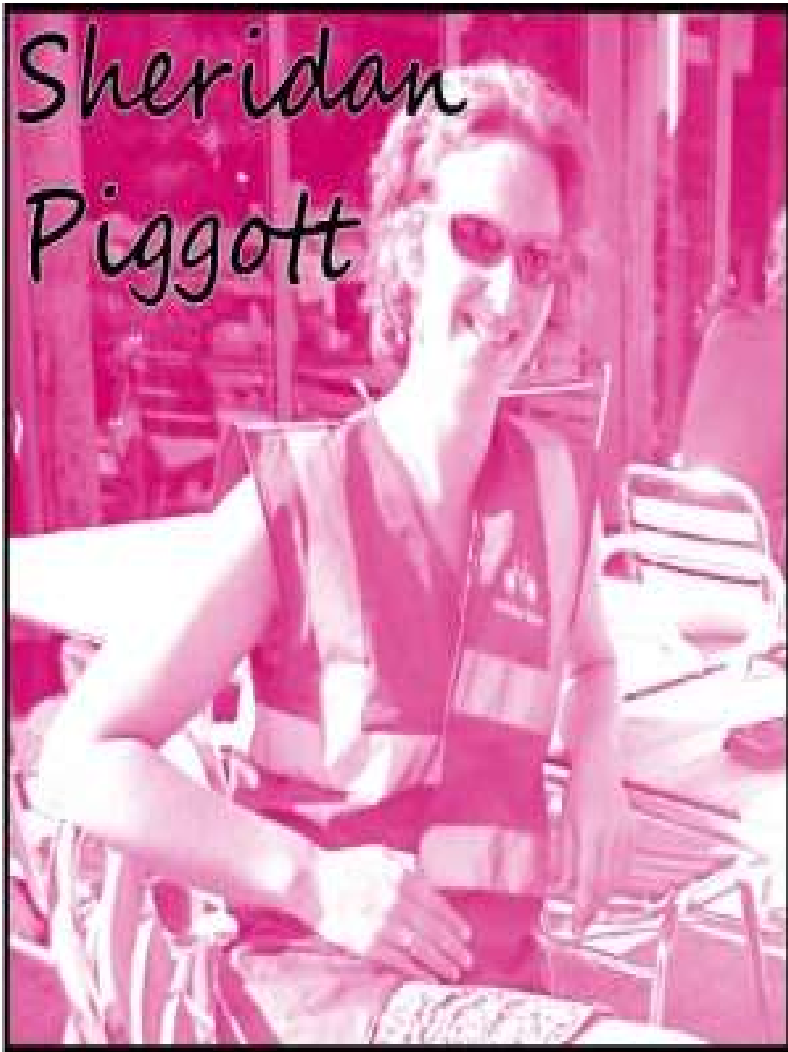


Credit: Feedback

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



A portrait of Arno Schmickler, a man with light brown hair and glasses, wearing a dark suit jacket over a white shirt. He is looking slightly to the left of the camera with a neutral expression. The background is a plain, light-colored wall.

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



Communications

WE DID IT!

LEGO BLOCKS SHELL



Credit: Greenpeace



Psychology & Behaviour

Credit: Green Open Homes



Credit Nottingham City Council

Carbon Lock In

Economics and Finance





Politics and Governance

Credit: Sustainable Development Alliance

Some key Conclusions:

- Can't be left for markets to decide – society must drive the plan
- 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)

www.zerocarbonbritain.org



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Centre for Alternative Technology
Canolfan y Dechnoleg Amgen