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

Centre for Alternative Technology
Canolfan y Dechnoleg Amgen
A national scale hourly model un-leashes new conversations!

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.
Power-up

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

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

- Double forest area.
- Increase use of wood products.
- Restore 50% of peatlands.

Balance GHG emissions of ~ 47 MtCO₂e/year
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-imagined local areas
- Think across silos
- Power of a positive vision
Diverse partners...

ZERO CARBON LIVERPOOL

Zero Carbon Yorkshire

ZERO CARBON DORSET (ZCD)
Reducing emissions to net zero by 2030

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
More info: Centre for Alternative Technology [www.cat.org.uk](http://www.cat.org.uk)