



Centre for Alternative Technology
Canolfan y Dechnoleg Amgen

ZERO CARBON BRITAIN

RIISING TO THE CLIMATE EMERGENCY

How can we achieve net zero greenhouse gas emissions using only proven technology?



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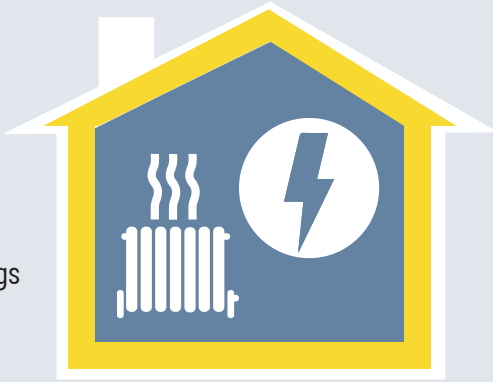
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POWER DOWN

REDUCE ENERGY DEMAND FOR HEATING **50%**

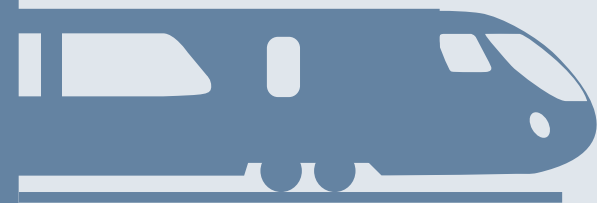
CUT EMISSIONS WITH:

- High 'Passivhaus' standards for new buildings
- Retrofitting all existing buildings
- Improve internal temperature control



Reducing how much we travel, changing modes of travel and using more efficient vehicles could

CUT ENERGY DEMAND FOR TRANSPORT **78%**



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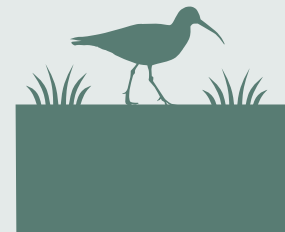
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CAPTURE CARBON with natural climate solutions

FOREST AREA is DOUBLED to **24%** of the LAND AREA of the UK



RESTORE **50%** OF UK PEATLANDS.



Each year, on average, we could CAPTURE around **47 MILLION TONS OF CO₂ EMISSIONS**



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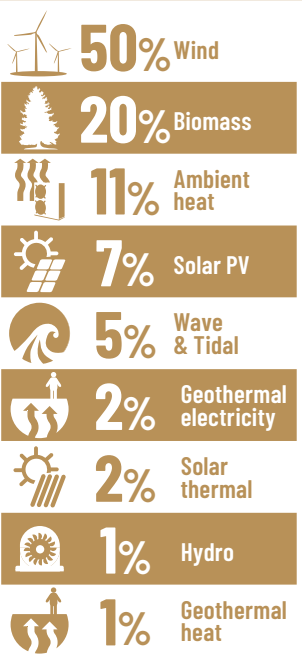
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POWER UP

WE CAN SUPPLY **100%** of the UK's 'powered-down' energy demand with **RENEWABLE AND CARBON NEUTRAL ENERGY SOURCES.**

SMART APPLIANCES and short-and long-term **STORAGE** mean a 100% renewable energy system can provide power

24 HOURS A DAY ALL YEAR ROUND



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ZERO CARBON BRITAIN

HEALTHY HAPPY LIVES

- BETTER BALANCED DIETS
- RESTORED AIR QUALITY
- RESTORED BIODIVERSITY
- SUSTAINABLE, THRIVING ECONOMY

Through **dietary change**, **food waste reduction** and **improved agricultural practices** we can provide a **healthy, sustainable diet**, whilst also reducing food imports.

