

INFORSE - SUSWATCH - INSEDA - CCDB – SE

UNFCCC COP 25 SIDE EVENT 13/12 2019 13:15-14:45 ROOM 6



Local Climate Solutions with Poverty Reduction in NDCs. Experiences from Europe

by Paul Allen, Zero Carbon Britain,
Centre for Alternative Technology, UK



Proceedings: <http://www.inforse.org/cop25.php3>

SUSTAINABLE ENERGY VISIONS 100 % RENEWABLES

*European Countries
by 2030/40/50*



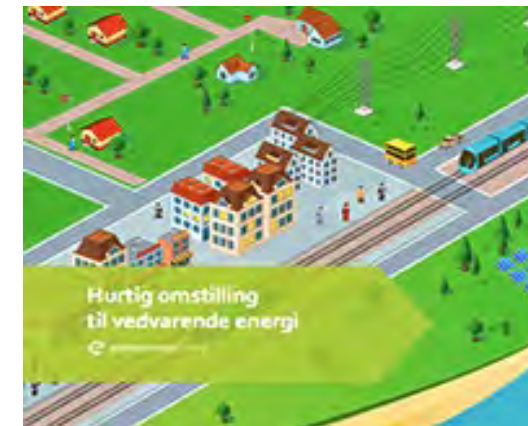
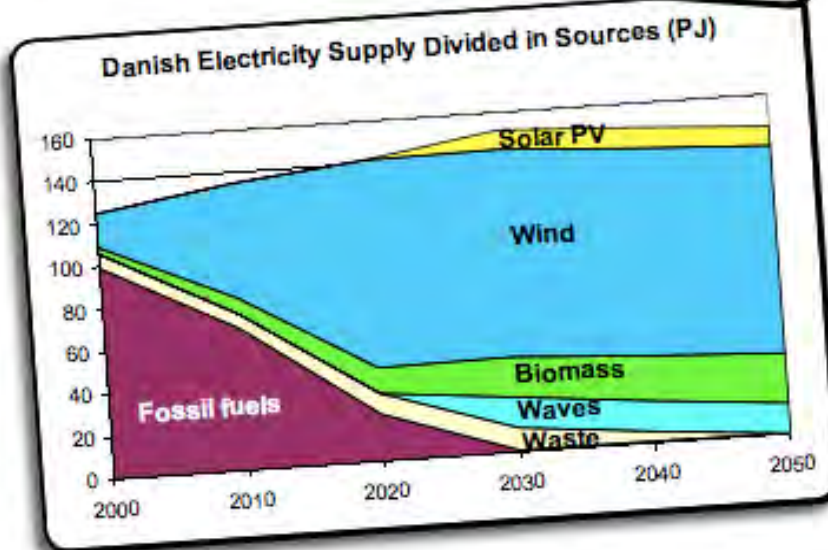
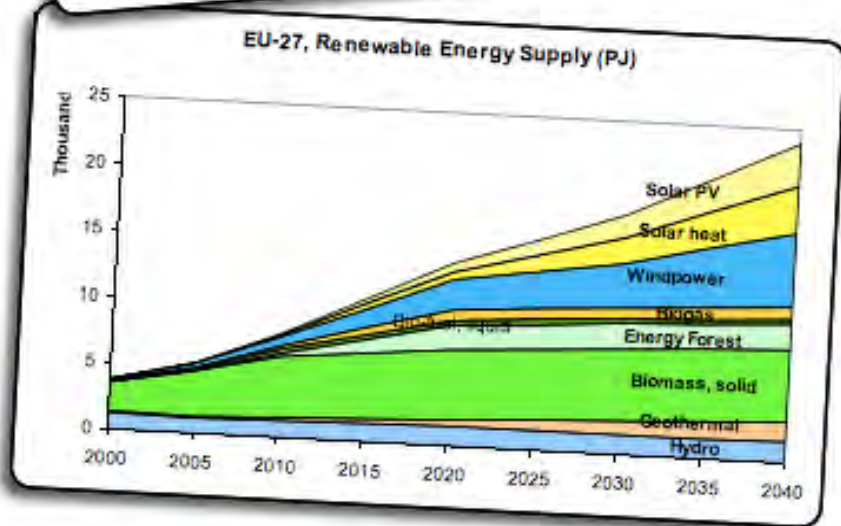
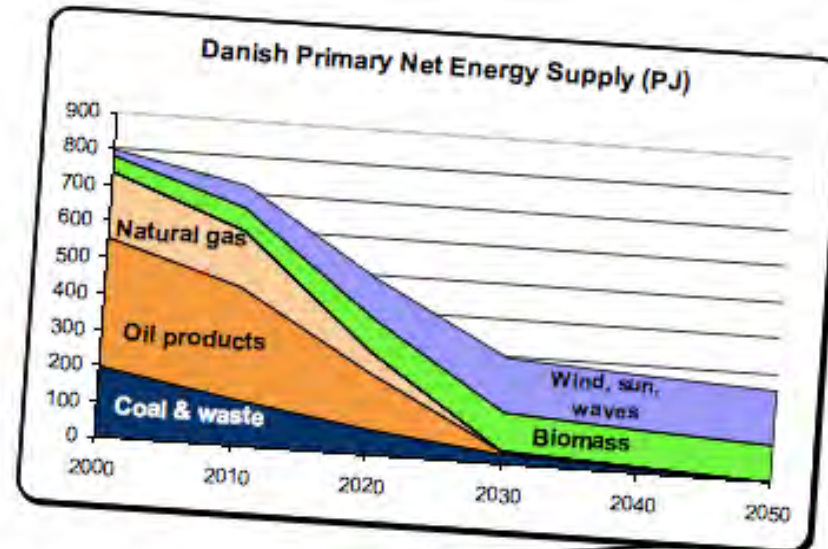
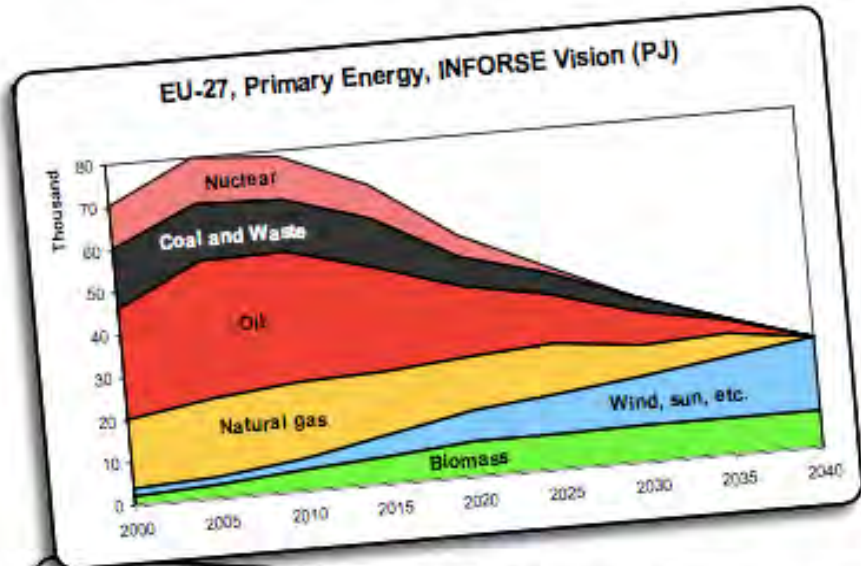
**Global, regional, national
visions and scenarios**

**Proposals to achieve
sustainable energy systems, following
environmental & social imperatives**



www.inforse.org/europe/Vision2050.htm

100 % RE in EU & DENMARK





European Transition Scenario Initiative - 15 NGOs & networks



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ENERGIACLUB
CLIMATE POLICY INSTITUTE
APPLIED COMMUNICATIONS



LEGAMBIENTE



Wuppertal Institut



Zala briviba.lv



3a Землята



associação sistema terrestre sustentável

www.negawatt.org



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1977



2007



2010



2013



2014



2019

Understanding where we are today – is this really normal??



Recognising Europe has high carbon **External** Infrastructure



" Our whole economy is based on

Planned Obsolescence...

We make good products, we induce people to buy them, and then next year we deliberately introduce something that will make those products old fashioned, out of date, obsolete.

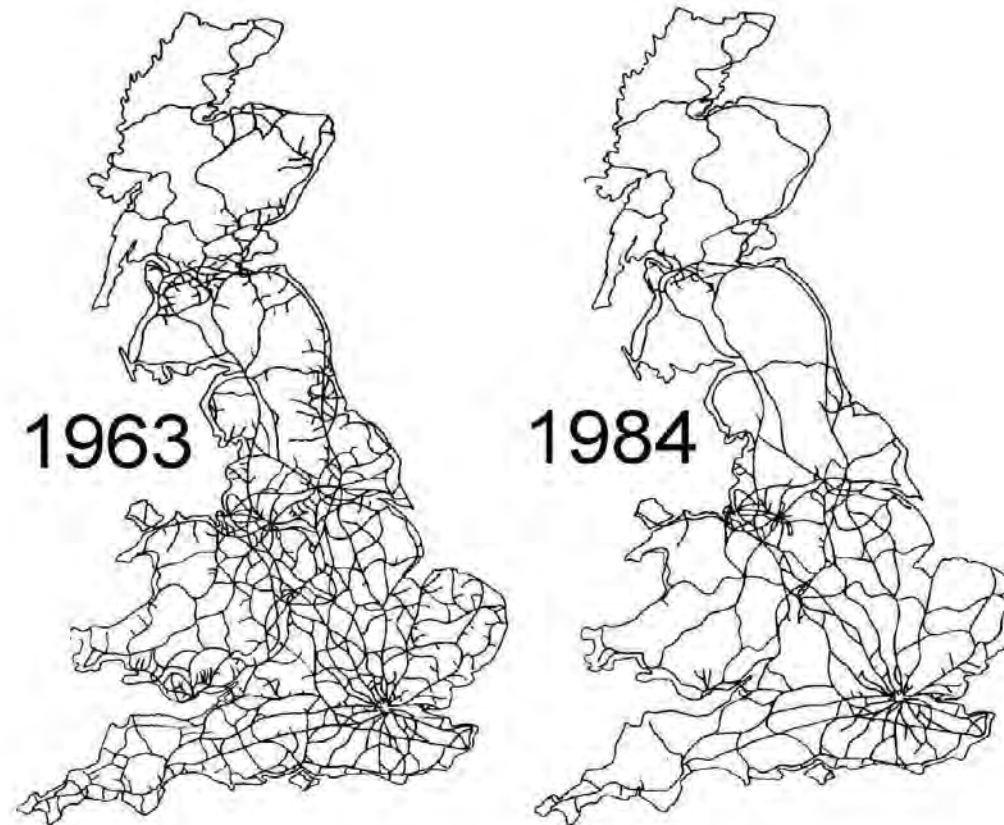
We do this for the soundest reason... to Make Money! "

— Brooks Stevens,
Industrial Designer. 1958



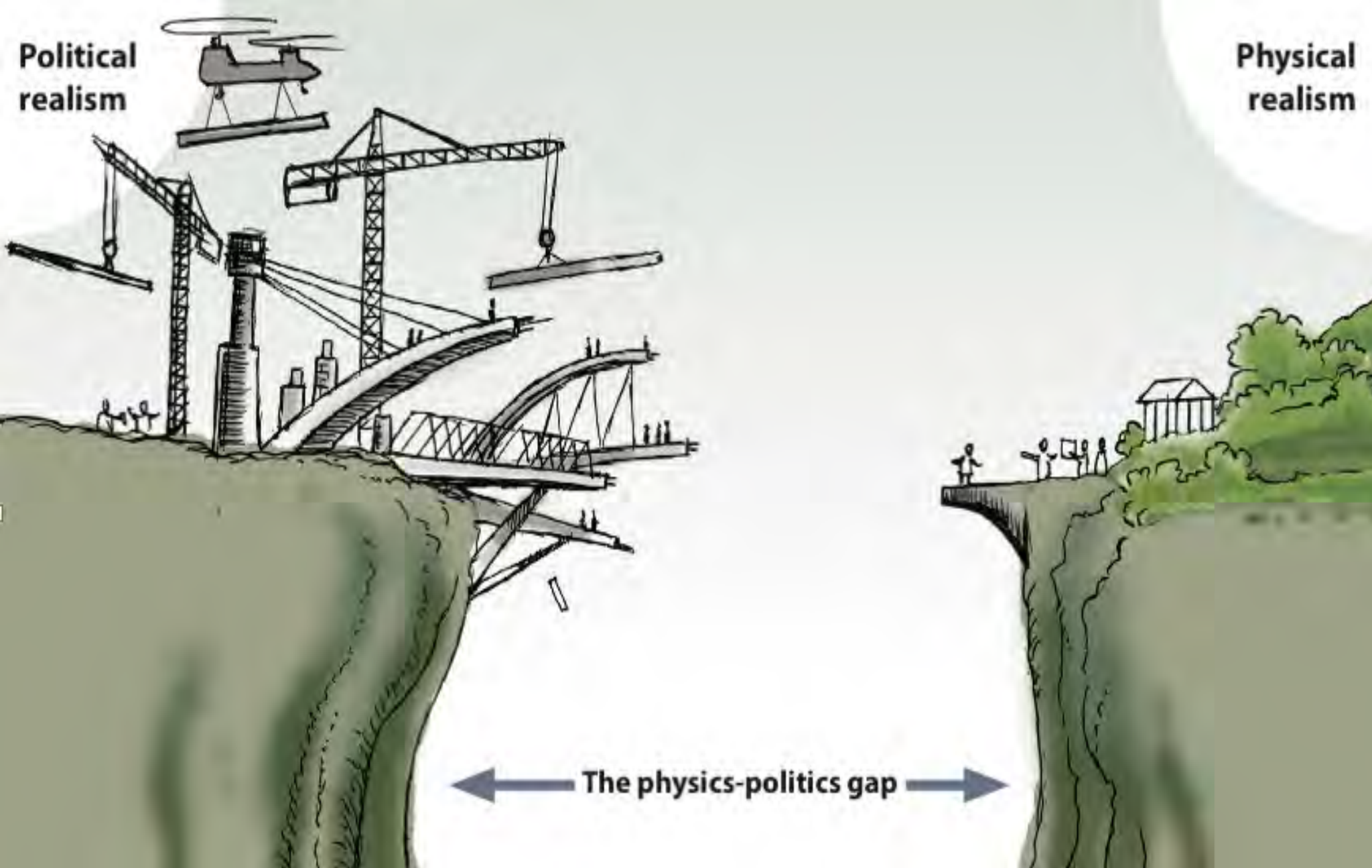
*Brought to you by the
Post-Landfill Action Network*

The British Railway Network before and after Beeching



Recognising Europe has high carbon “Internal infrastructure”





Physical
realism



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What does this mean for the UK?



Where we are now - 2017 emission levels

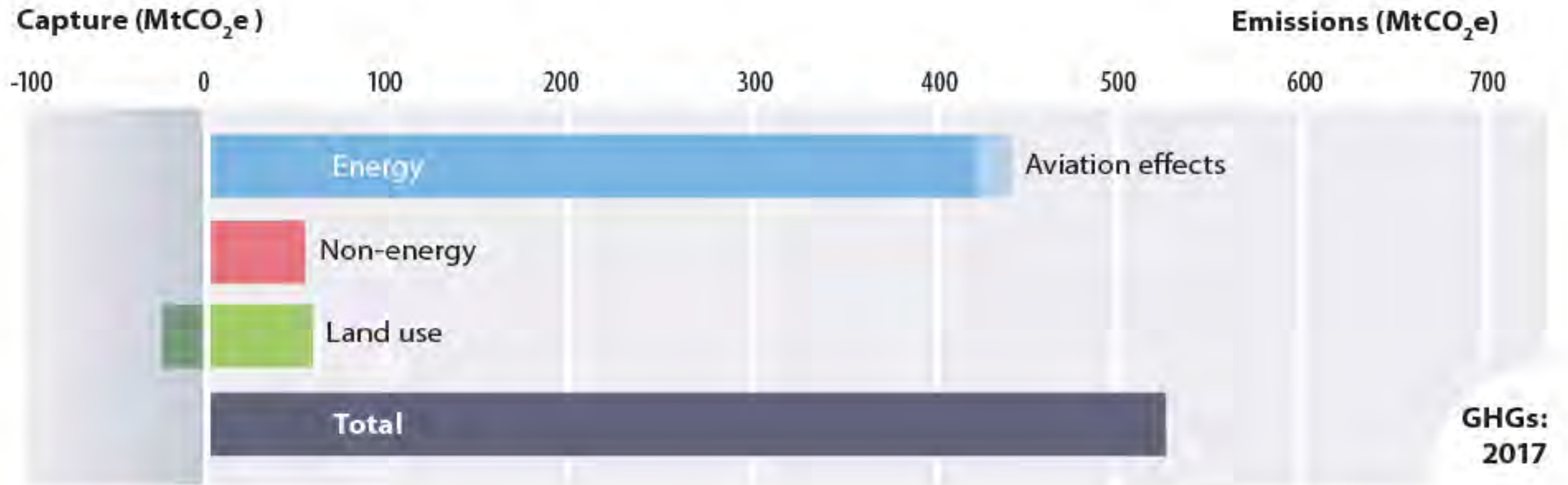


Figure 3.1: UK Greenhouse gas emissions in 2017, including international aviation and shipping, and the enhanced effect of emissions from aviation (BEIS, 2019).



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**ZERO
CARBON
BRITAIN**

POWER DOWN

REDUCE ENERGY
DEMAND FOR
HEATING

50%

CUT EMISSIONS WITH:

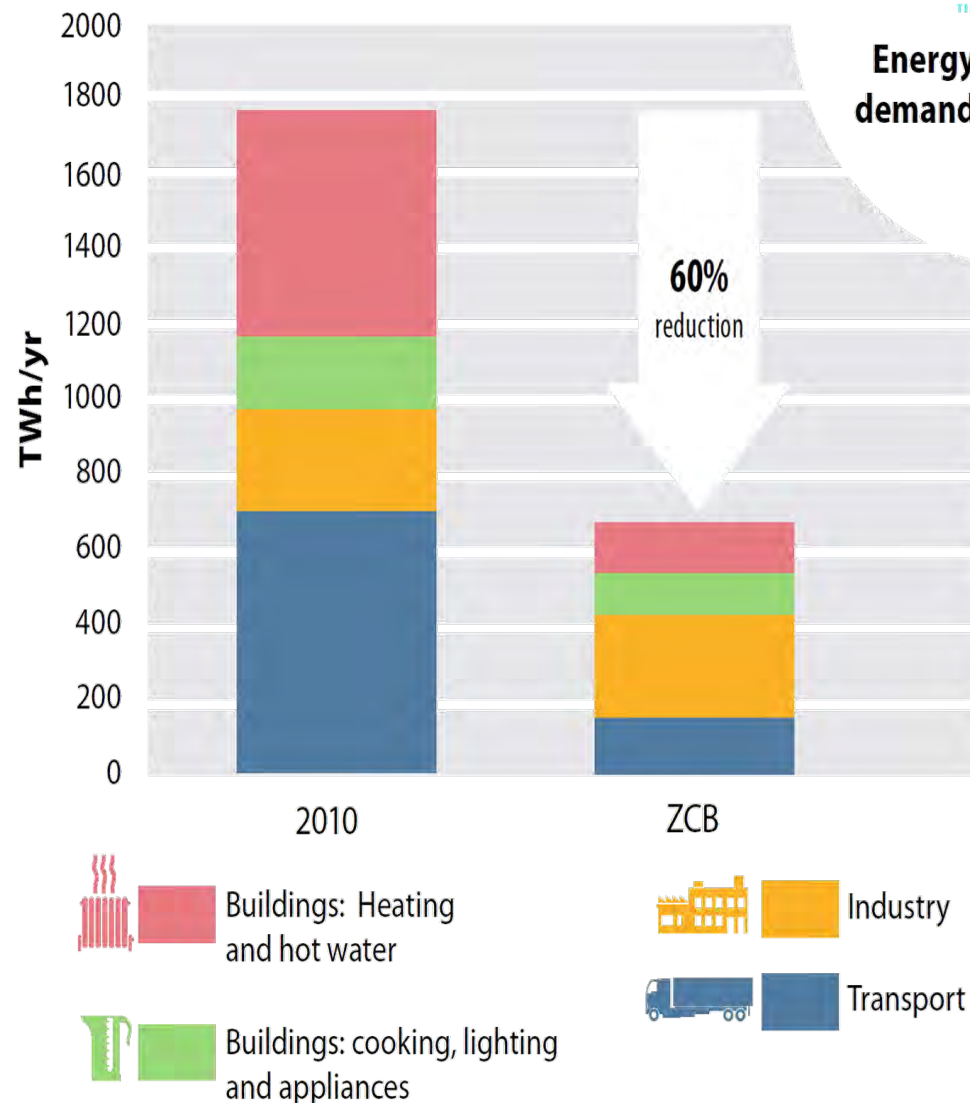
- High 'Passivhaus' standards for new buildings
- Retrofitting all existing buildings
- Improve internal temperature control



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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POWER UP

WE CAN SUPPLY

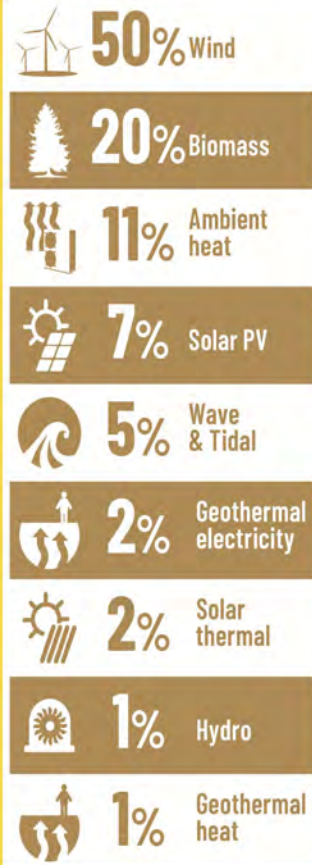
100%

of the UK's 'powered-down' energy demand with
RENEWABLE AND CARBON NEUTRAL ENERGY SOURCES

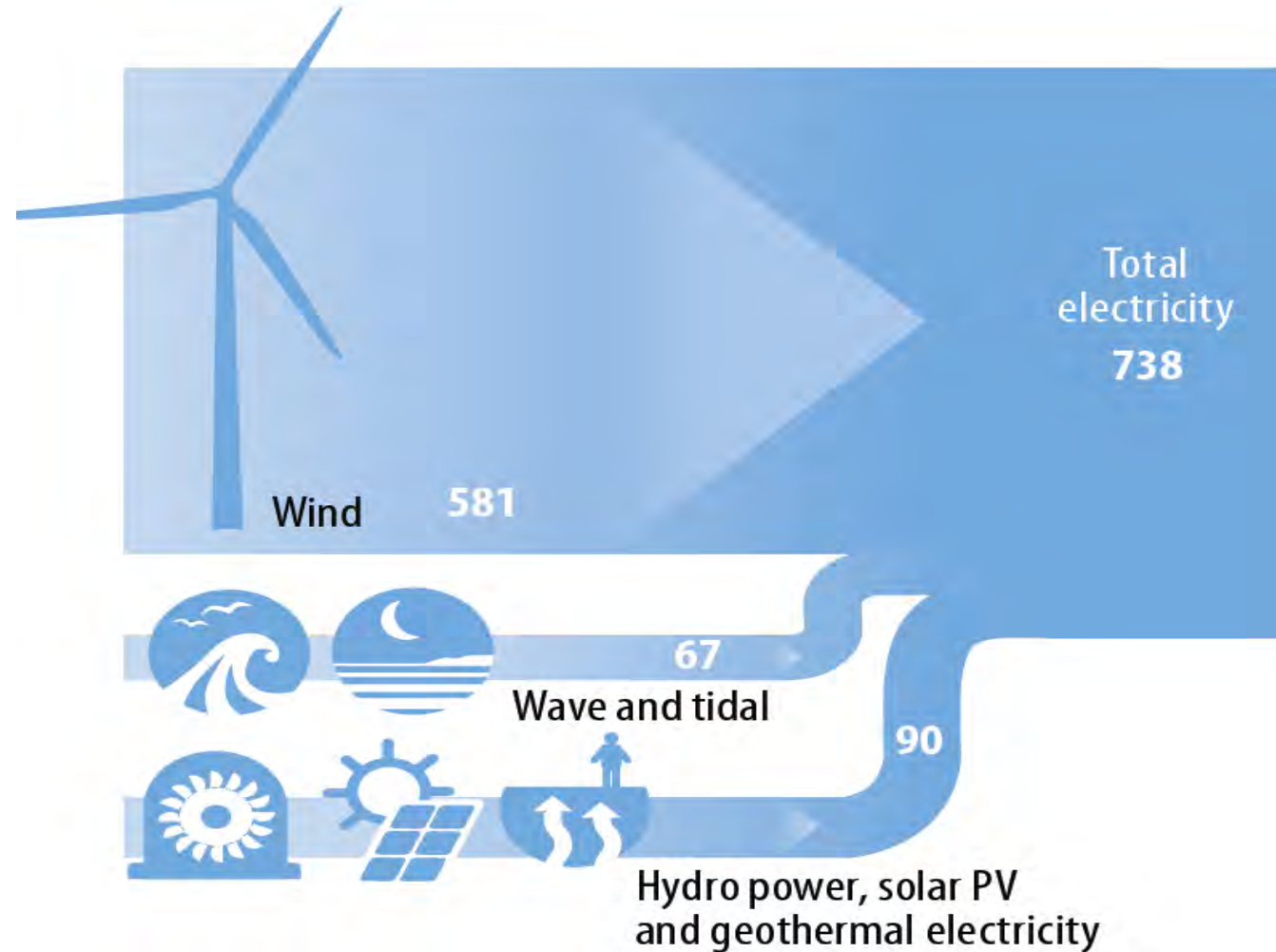
SMART APPLIANCES

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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CAPTURE CARBON with natural climate solutions

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



RESTORE
50%
OF UK PEATLANDS

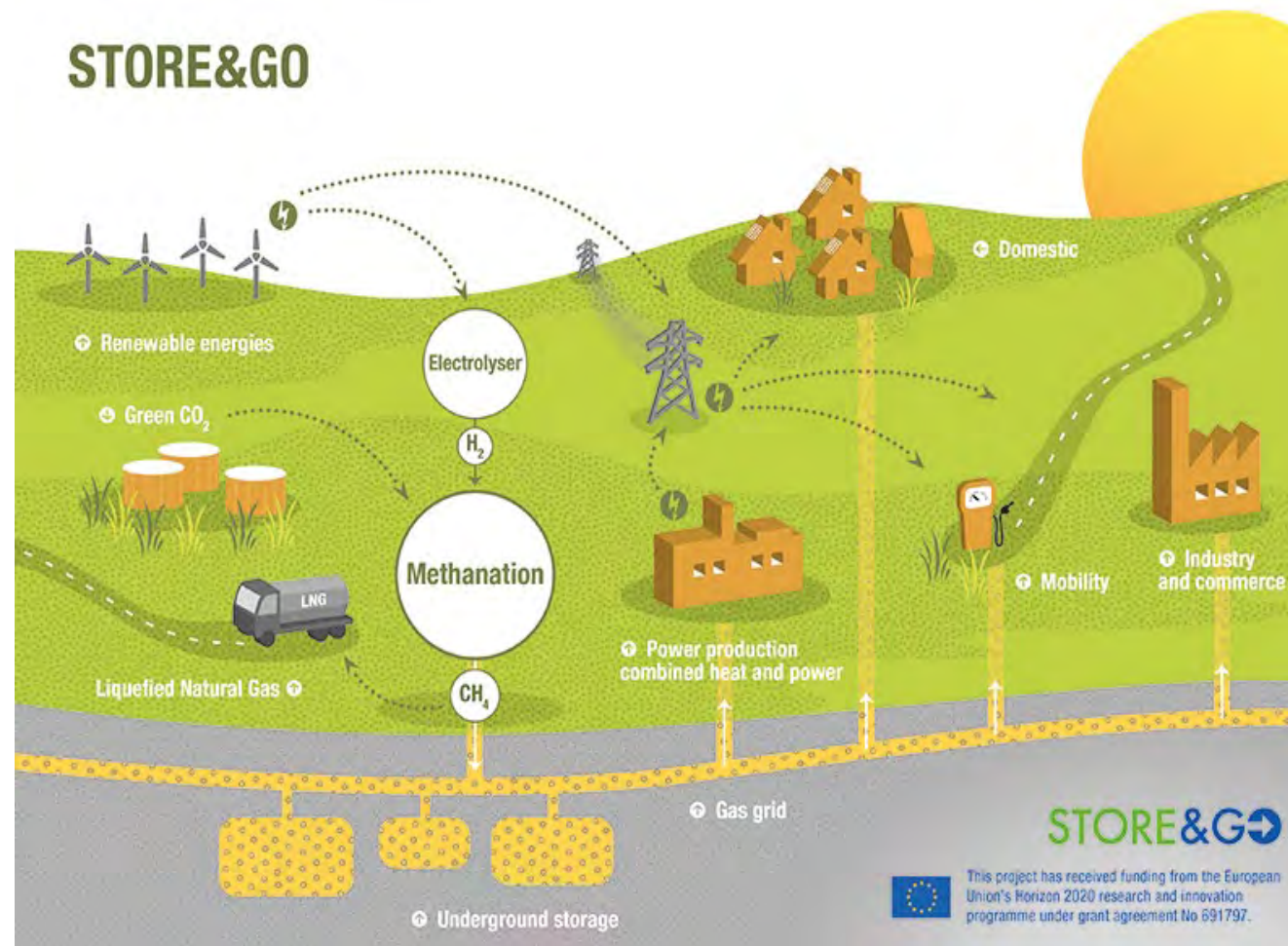


Each year, on average,
we could **CAPTURE** around
47 **MILLION**
TONS OF CO₂
EMISSIONS



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STORE&GO



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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.



Multi-solving – maximising the benefits beyond carbon



So we can go from this... (2017 emissions)

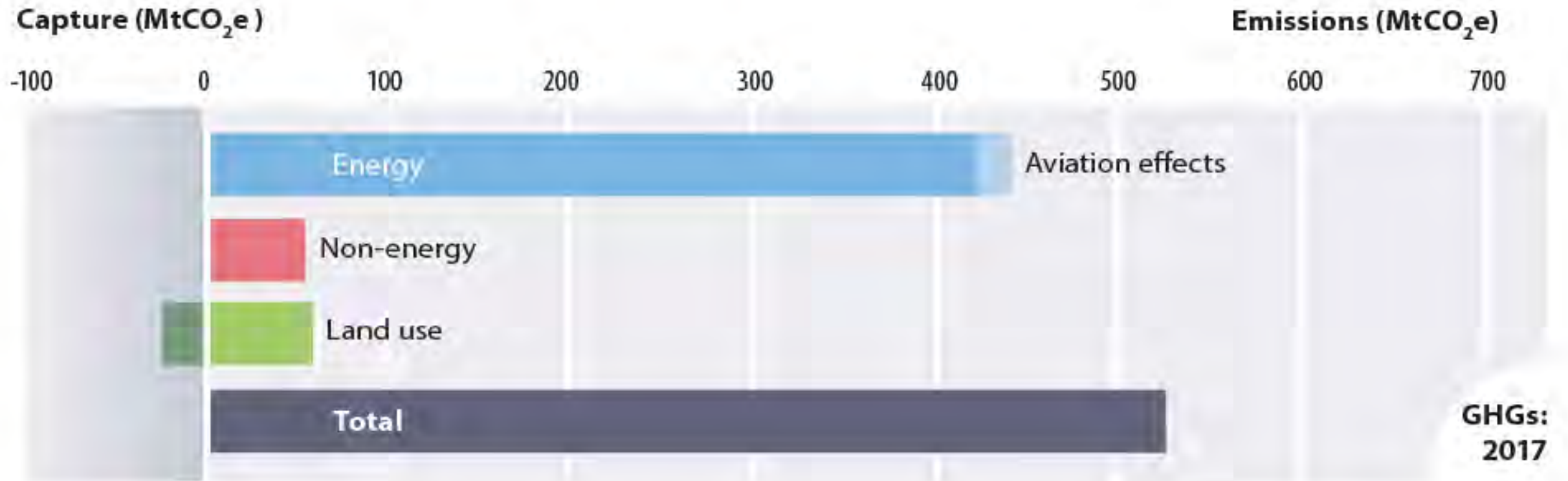


Figure 3.1: UK Greenhouse gas emissions in 2017, including international aviation and shipping, and the enhanced effect of emissions from aviation (BEIS, 2019).

... to this - Net zero emissions is achievable!

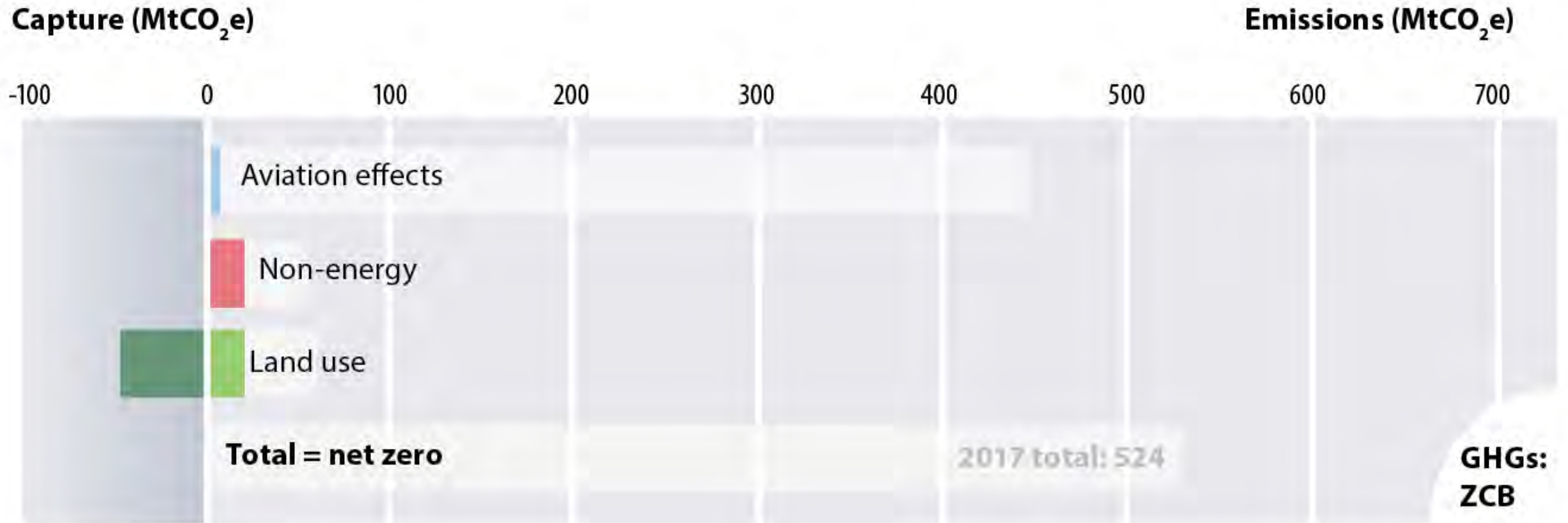


Figure 3.35: Carbon captured and greenhouse gas emissions for the UK in our scenario relative to 2017, including international aviation and shipping and the enhanced effect of emissions from aviation. Total emissions sum to net zero.

More and more town, city, and county councils, across Europe have declared a climate emergency; and agreed we must act!

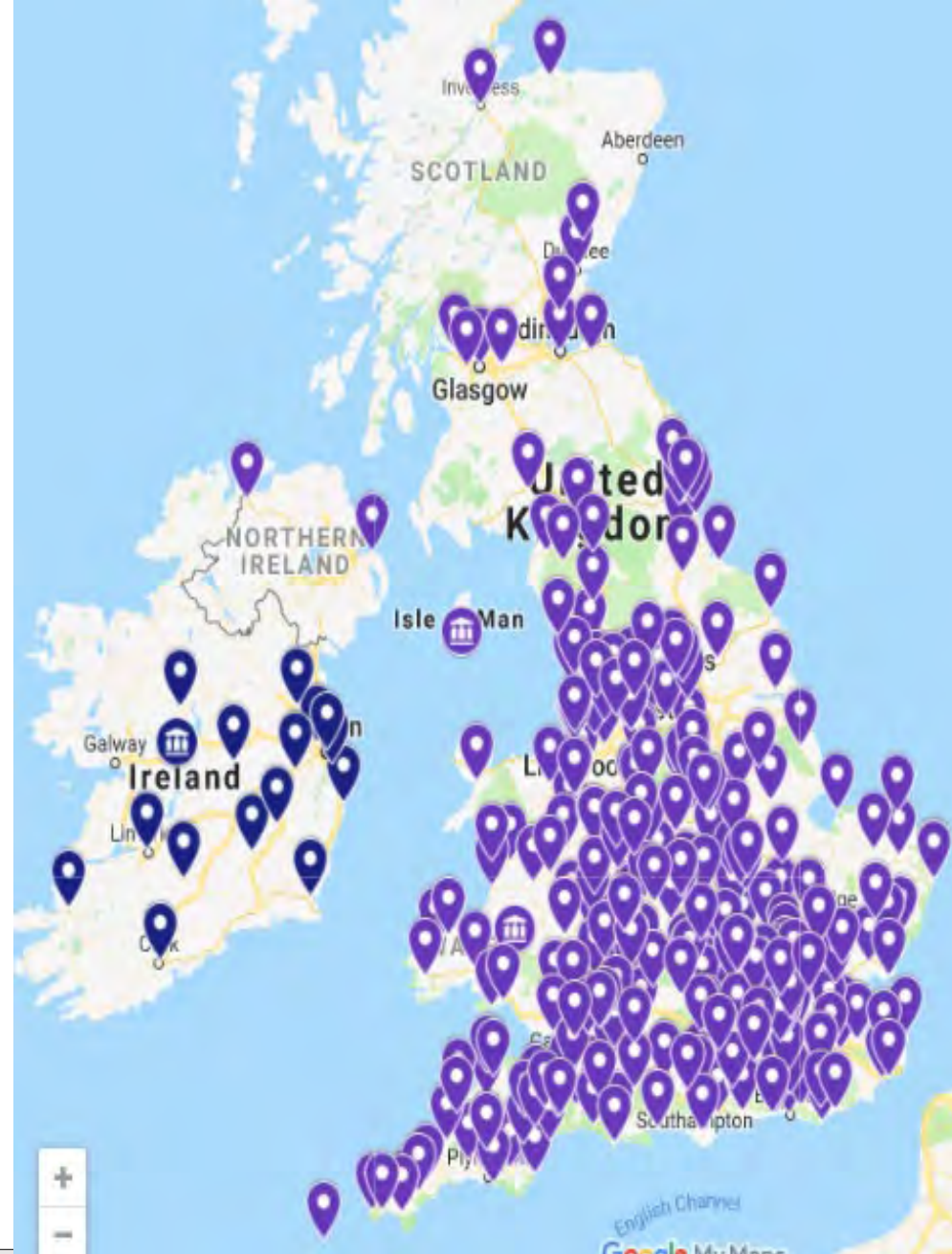
Look at the UK over just a few months....













New hub and innovation lab to share zero carbon solutions

JULY 29, 2019

[Home](#) » New hub and innovation lab to share zero carbon solutions

www.cat.org.uk

A new Zero Carbon Britain Hub and Innovation Lab is being launched at CAT later this year to help communities, local authorities and policymakers to create Zero Carbon Action Plans, and to provide support for the development of innovative solutions.



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