

Welcome to the Hackathon!!

Why are we here?! What are our big questions....



Sophie Adams

ENVIRONMENT



Australia wildfires pushing global CO2 levels to record high

Fifth of increase in atmosphere's carbon since last year caused by blazes, says Met Office

ENVIRONMENT



UK funding overseas projects emitting millions of tonnes of emissions

Why are we here?!



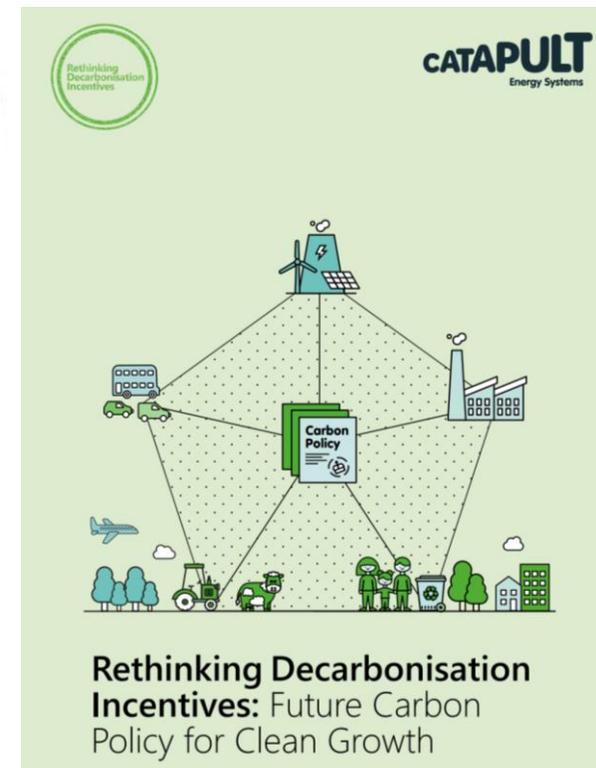
Ofgem's Future Insights paper 2 - The decarbonisation of heat

Committee on
Climate Change


Department for
Business, Energy
& Industrial Strategy

Clean Growth - Transforming Heating

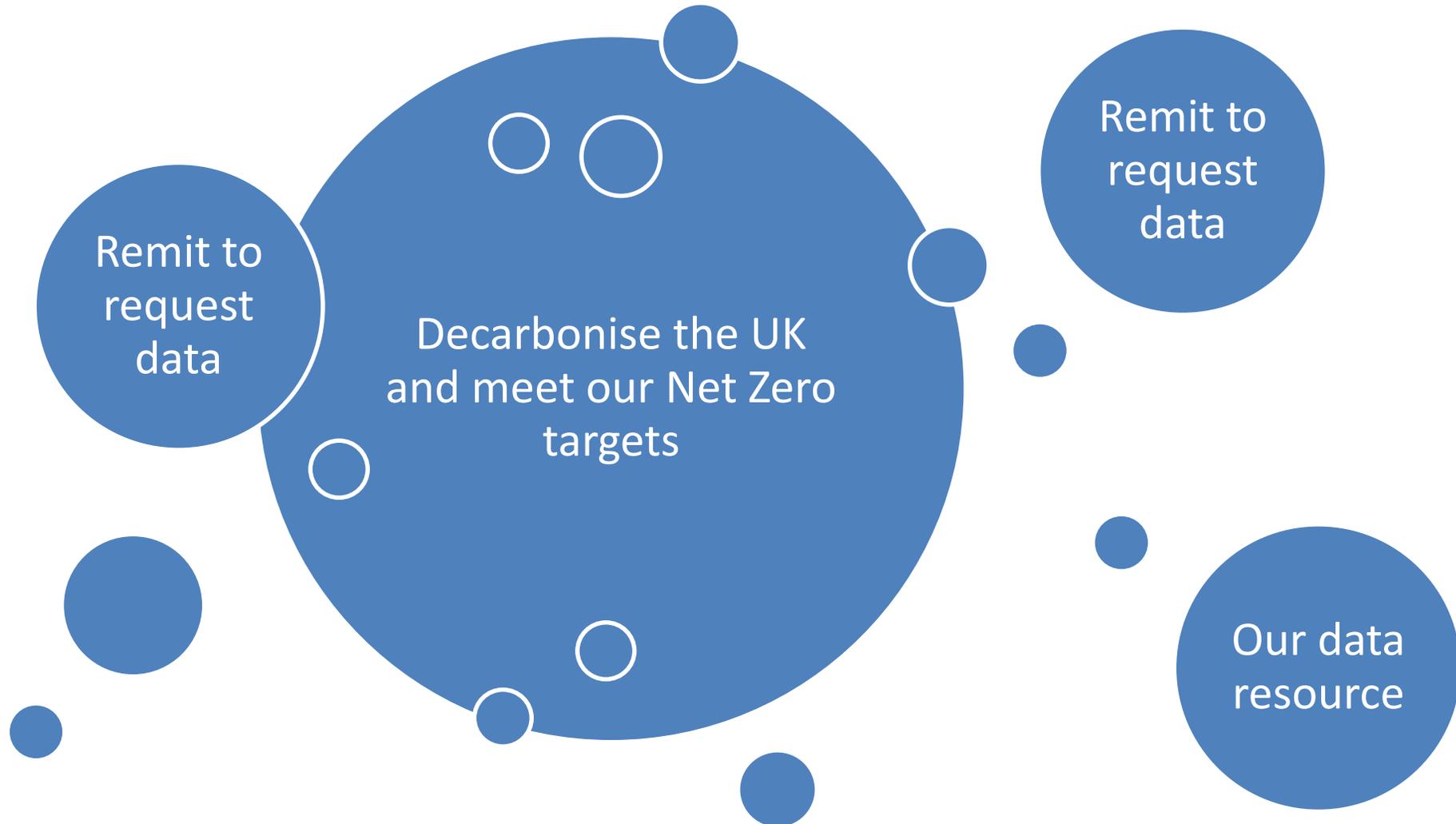
Overview of Current Evidence
December 2018



Policy paper

Industrial decarbonisation and energy efficiency action plans

Action plans setting out government and industry commitments to reduce greenhouse gas emissions and improve energy efficiency.



This data has never been brought together before....



Ordnance
Survey



Data
Communications
Company

ofgem e-serve



Civil Aviation
Authority



Met Office



Department for
Business, Energy
& Industrial Strategy



ElectraLink



Driver & Vehicle
Licensing
Agency

Hypotheses we want to test
(but definitely not limited to)

- How could we decarbonise the UK within 5, 10, 15 years? What proportion of renewables would make up the energy sector to help us do this?
- We need more renewable sources of electricity in order to reduce our carbon footprint. Where should we build these to avoid the most impact on biodiversity?
- Can innovation in the energy sector can be visualised in green outputs (uptake of green energy tariffs etc.) ?

- Do smart meters reduce energy demand? And which regions do we need to focus on to encourage uptake?
- What additionality do we need for smart meters to be effective? (what functionality, what metrics, what do we need to know to understand the roll out)
- Is there a greater understanding or engagement in the sector post roll out? Do we see a shift towards different uptake of renewable tariffs?

- Can we predict installations, different consumer patterns and where electric vehicles are more widely used?
- Can you understand the patterns of change on biodiversity with the projected increase in temperature
- Can you force social change without regulation?