

Climate Actions for Frontline Services

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Commitments - International and Local Context

2015 - Paris Agreement – 196 countries agree to limit global warming to 2°C, and preferably by 1.5°C compared to pre-industrial levels.

2008 - Climate Change Act – legally binding target for UK. Updated in 2019 to be net zero by 2050.

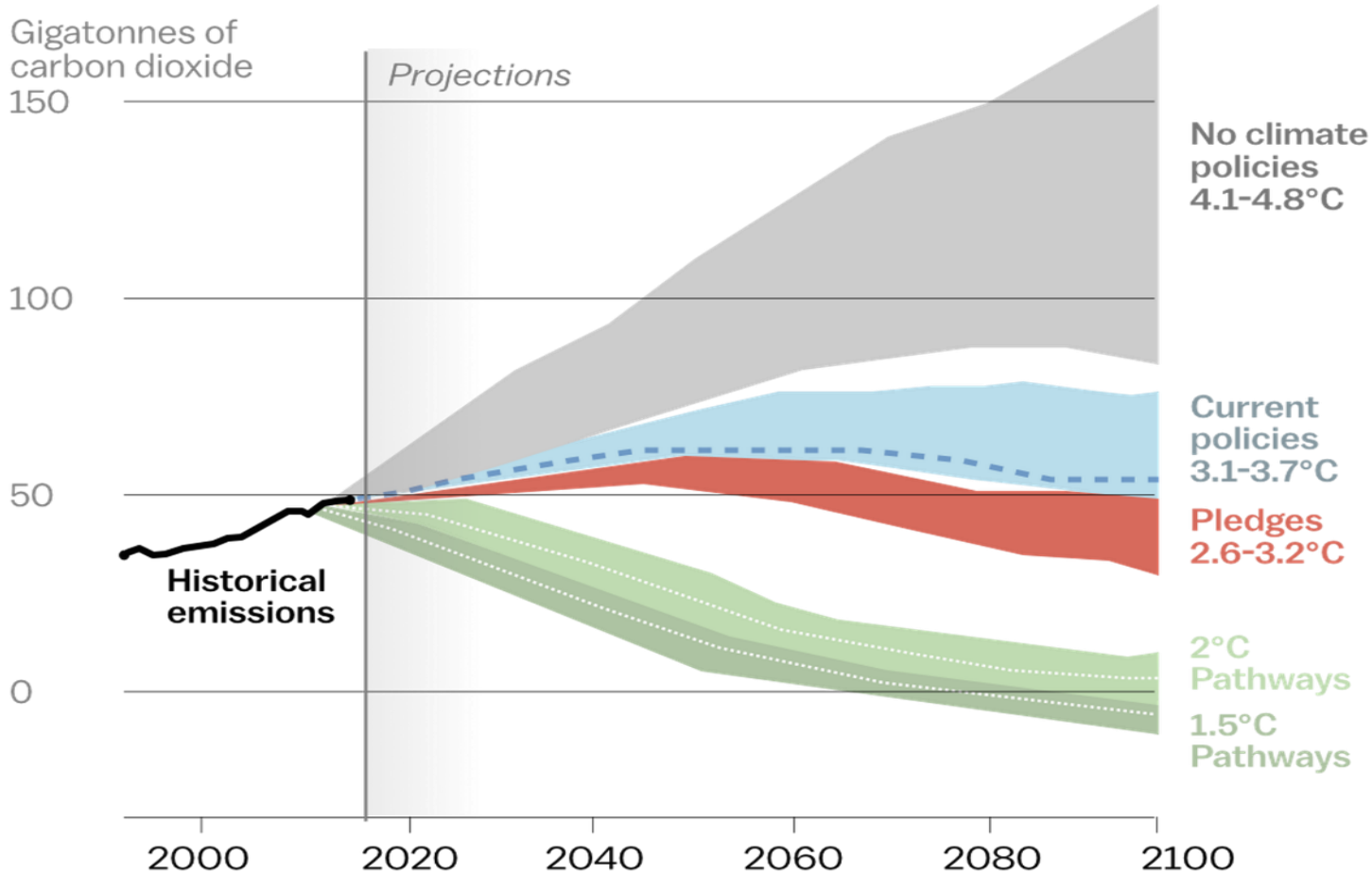


June 2019 – West Yorkshire Combined Authority (WYCA) commitment to achieve Net Carbon Zero region by 2038.

May 2019 – Wakefield Council declares a climate emergency and commits to be a net zero organisation by 2030.

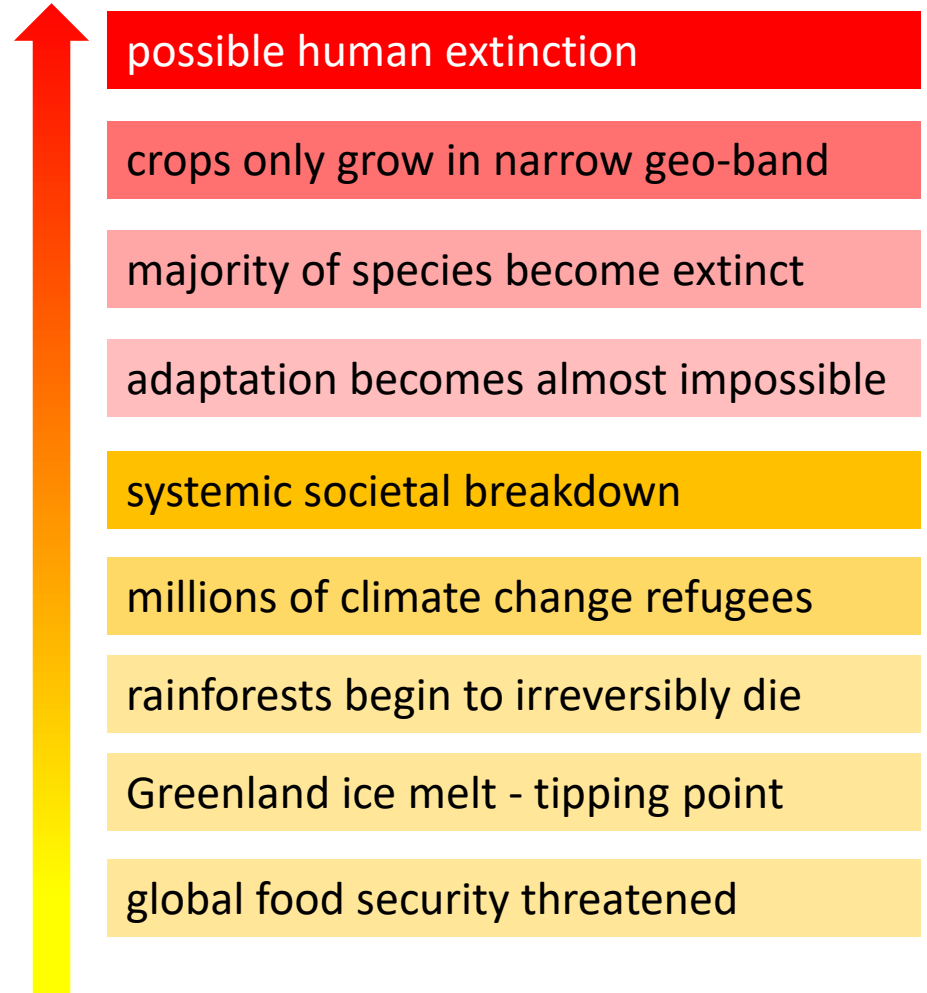
Effect of current pledges and policies

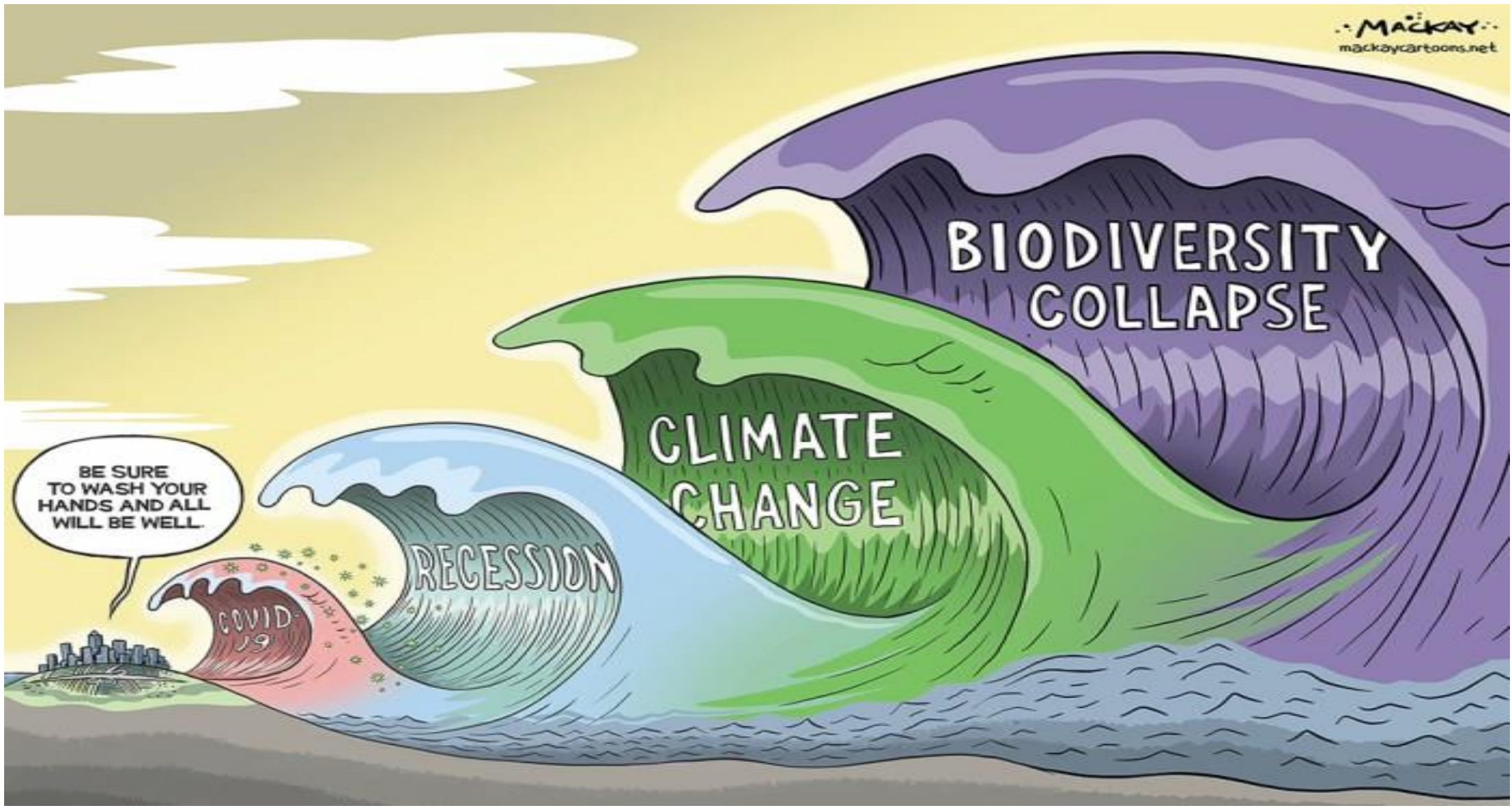
Global greenhouse gas emissions



Source: Carbon Action Tracker

Vox







**Wakefield
Climate Emergency**
Action today for our tomorrow

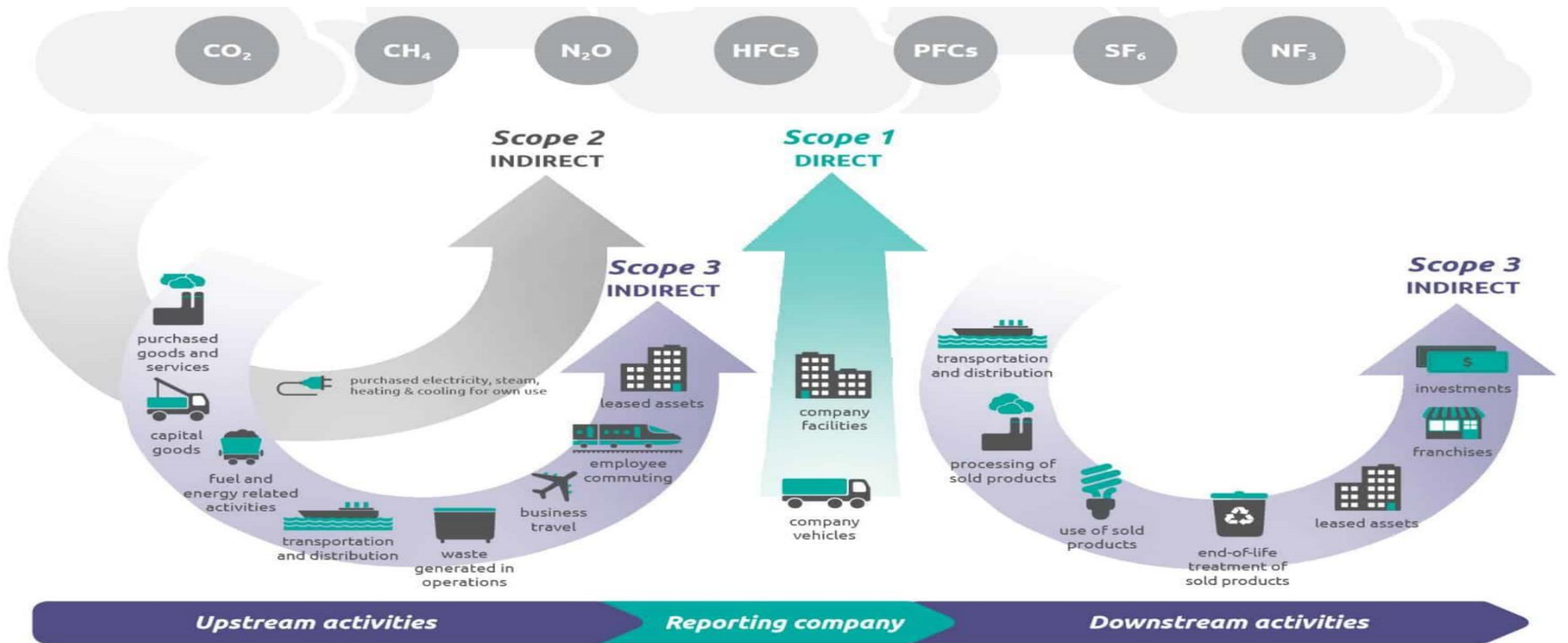
Climate Change Action Plan



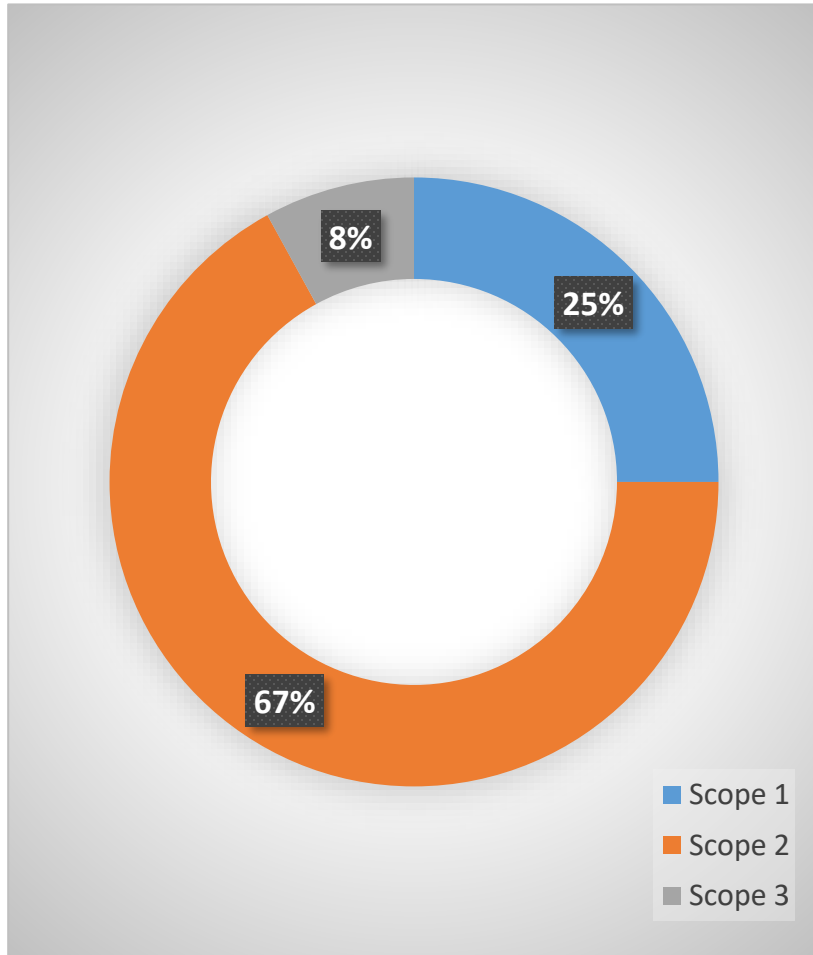
wakefieldcouncil *working for you*

wakefieldcouncil

Categories of Emissions



Wakefield Emissions Breakdown



- The council emitted 35,221 tCO₂e in the 2018 reference year, and this provides the baseline for all action towards achieving 'net zero' (*N.B. In terms of district-wide work, the emissions reduction challenge is likely to be between 2 to 4 million tCO₂e*).

- 25%

- Scope 1

- 8,682 tCO₂e

- 67%

- Scope 2

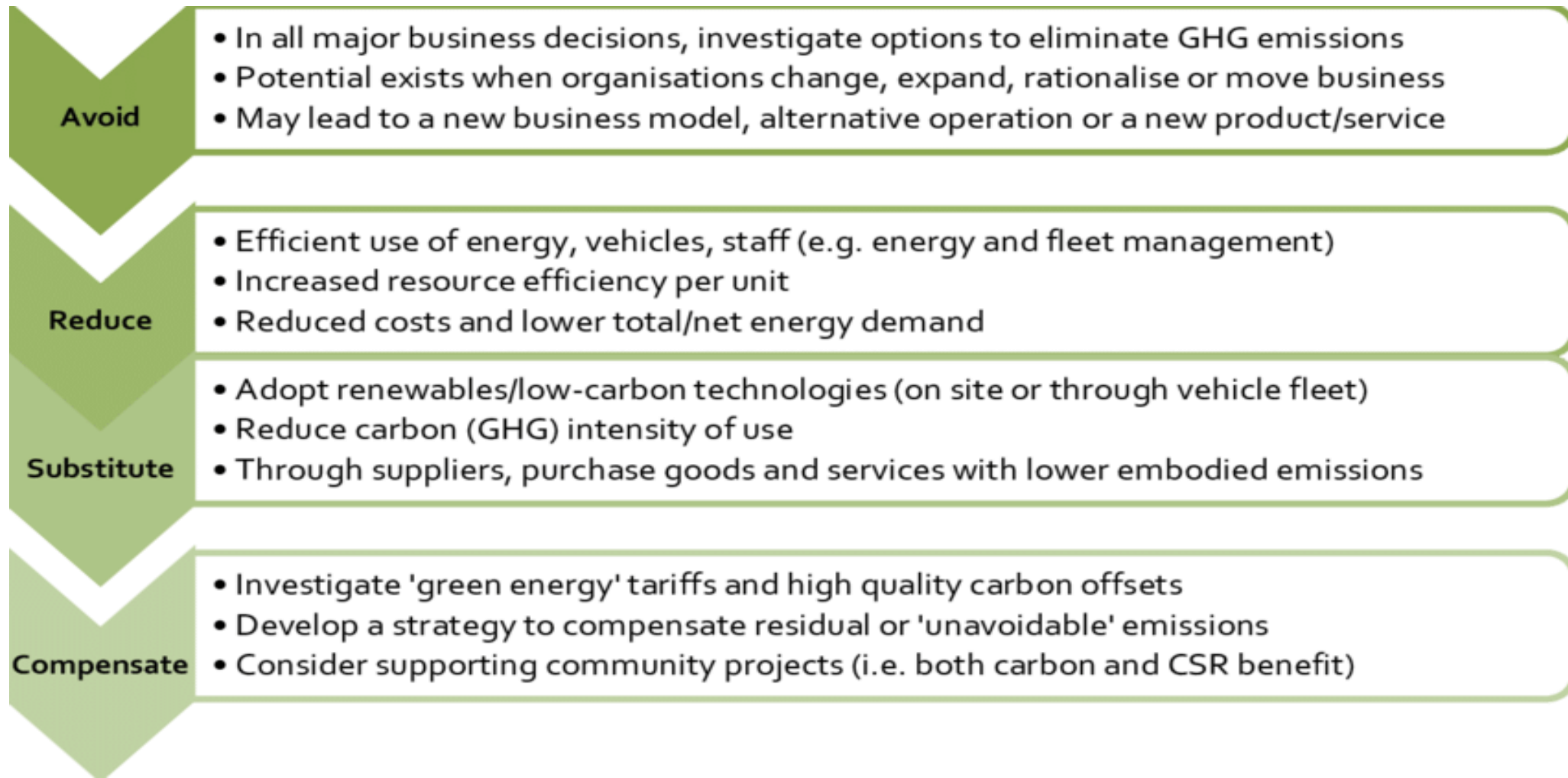
- 23,692 tCO₂e

- 8%

- Scope 3

- 2,847 tCO₂e

The Greenhouse Gas Management Hierarchy



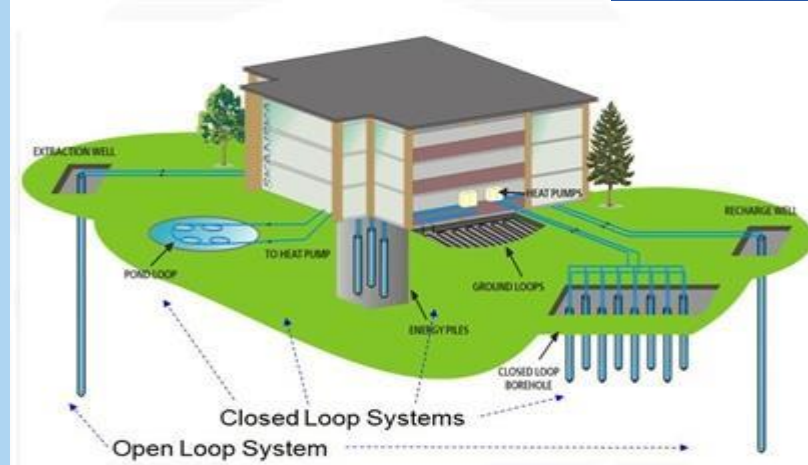
CCAP – Workstream 1– Low Carbon Estate



IoT for Smart Buildings

The infographic shows a stylized building with various IoT icons connected to it. The icons include a shield for Security, a fire alarm for Fire Safety, a lightbulb for Lighting, a smartphone for 24/7 Monitoring, a lightning bolt for Energy Management, and a house with a gear for HVAC.

- Security
- Fire Safety
- Lighting
- 24/7 Monitoring
- HVAC
- Energy Management



Questions

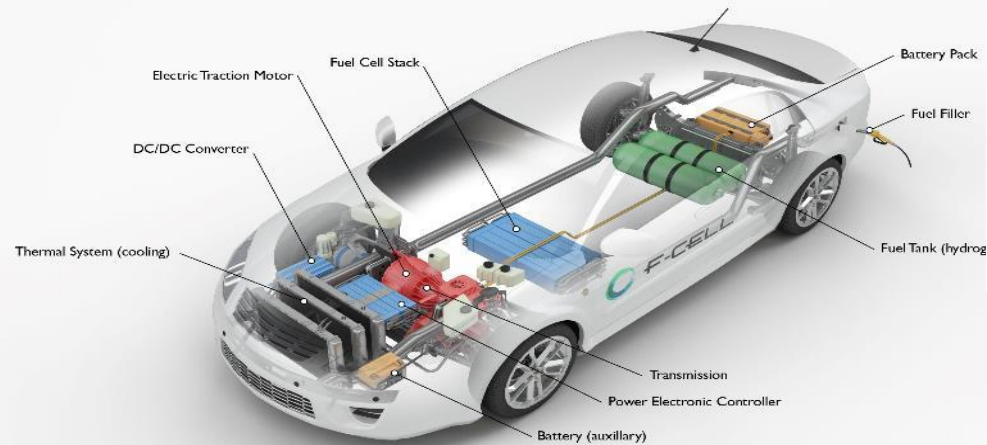
- **Do we know what assets we have?**
 - Properties? Where are they? Who manages them? Who pays the energy bills?
- **Do we know how much energy we use?**
 - Do we know where all our meters are?
 - How much fuel we use? How accurate?
- **Do we know what plans are in place? Do we have corporatised models in place?**
 - Corporate Landlord Team
 - Property Asset Plans
 - Long Term Maintenance Plans - links to carbon reduction – **Fully funded**, Capex/Opex?
 - Deal with low hanging fruit - LED, street lights , general estate, ground source pumps, heat exchangers etc

**** We must be clear on our base line before we commence! ****

CCAP - workstream 2 – low carbon fleet



Hydrogen Fuel Cell Electric Vehicle



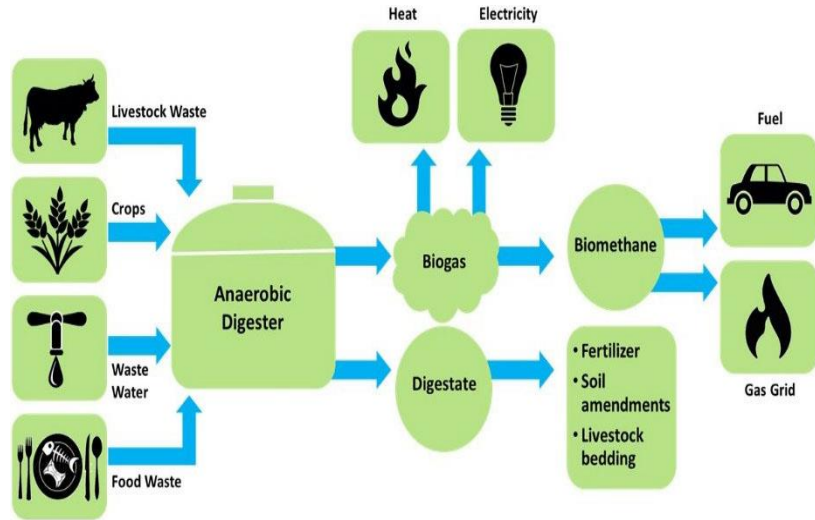
afcc.energy.gov



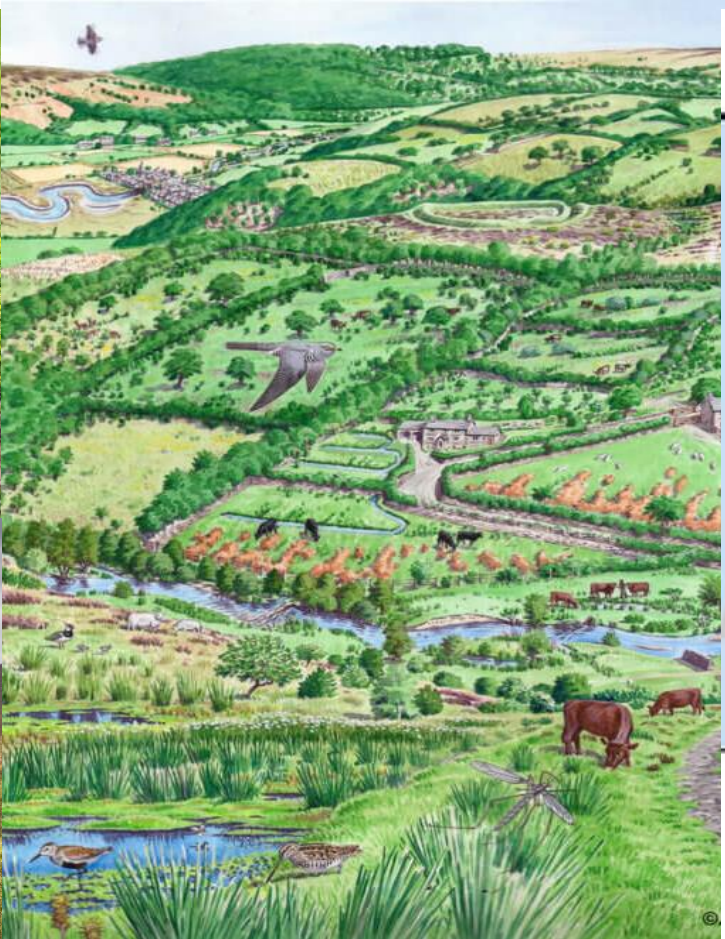
Questions

- **Do we know what fleet we have? Is this centrally controlled?**
- **Do we Corporatised Fleet Models?**
- **What replacement plans are in place?**
- **Do we know our fuel usage / efficiency rates?**
- **Have we reviewed what can be adapted to what?**
 - Electric
 - Hydrogen
 - Efficient vehicle modifications
 - Electric lifts
- **Are you aware of the economics and financial impact? Capex /Opex impact**

CCAP - Workstream 3 – Renewable Energy



CCAP - Workstream 4 – Carbon Offsetting



The Northern Forest



25 years

50 million trees

£500m over 25 years

Questions

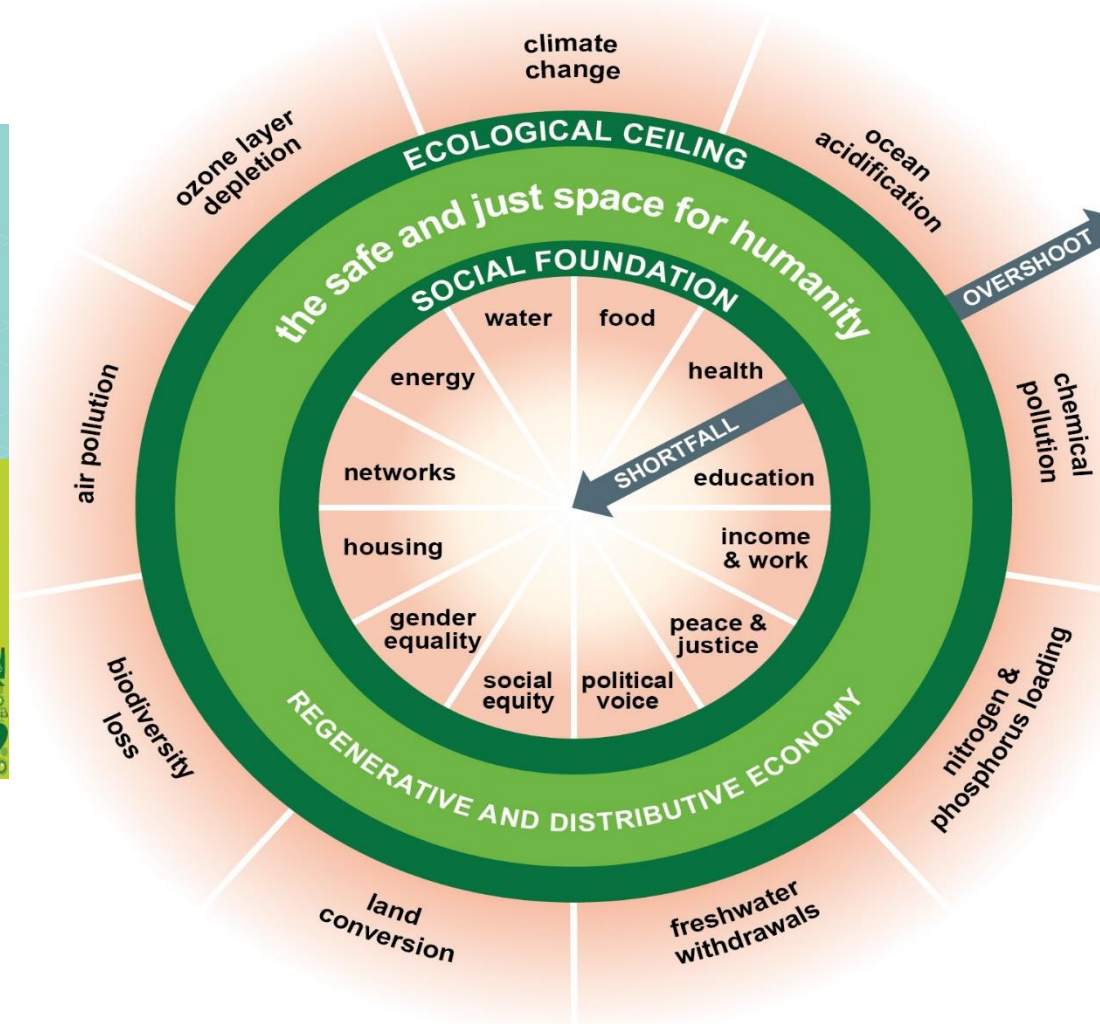
- **Do we know what land is allocated in the local plan and what for?**
 - Solar farms
 - Wind farms
 - Land allocated for tree planting

- **Do we have sufficient land for developments?**
 - The WRF is a joint venture that covers the Leeds City Region with a collective aim to increase tree cover by a minimum of 17.5% in our part of Yorkshire by 2048.
 - Wakefield Council's initial contribution towards the WRF project is to plant 240 hectares of woodland on Council owned land over the next five years.???
 - At 2,500 trees per Hectare this equates to 600,000 trees over the next five year period.
 - “Carbon sequestration” An oak tree may be capable of sequestering 1 tonne of CO₂ over a 40 year period for example, oaks might live for 1,000 years whereas cherry trees might only last 80.

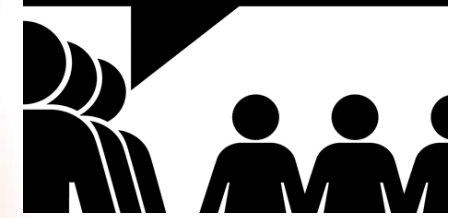
Questions

- **Do we have any links to current technologies?**
 - Combined Heat and Power Generation
 - Anaerobic Digestion – links to Waste resources bill
 - In Vessel Composting – IVC
 - Incineration
- **Do we know where we have grid connectivity?**
- **Do we know what businesses in the district are exploring?** Joint venture re Hydrogen (DFT)

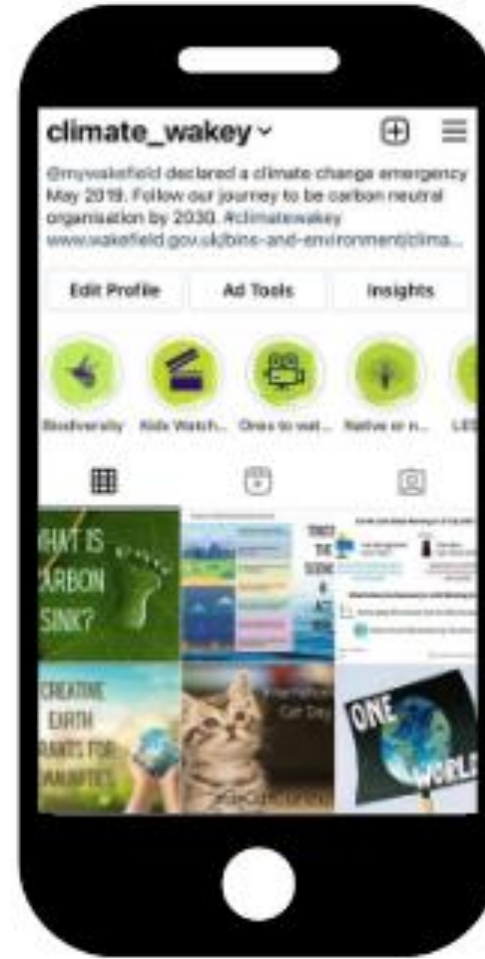
CCAP - Workstream 5 – Behaviour Change & Influencing



Carbon Literacy Training Organisation



Social Media & PR



Just Transition Wakefield @Jus... 14h
Replying to @ClimateWakey
Some real inspiration in there - thank you for sharing.
1

Emma Bird @emma_comp 17h
Replying to @MyWakefield @ClimateWak...
Really good to see you're ahead of some of your targets! The waste water heat feasibility looks interesting, look forward to seeing more about it.
1

Wakefield Council @MyWake... 19h
The @IPCC report shows the urgency needed to tackle climate change – and we're already taking proactive steps to reduce our carbon emissions.

Take a look at what we're doing here citizen.wakefield.gov.uk/council-invest...

And find out more @ClimateWakey #Climate Wakefield #climatechange

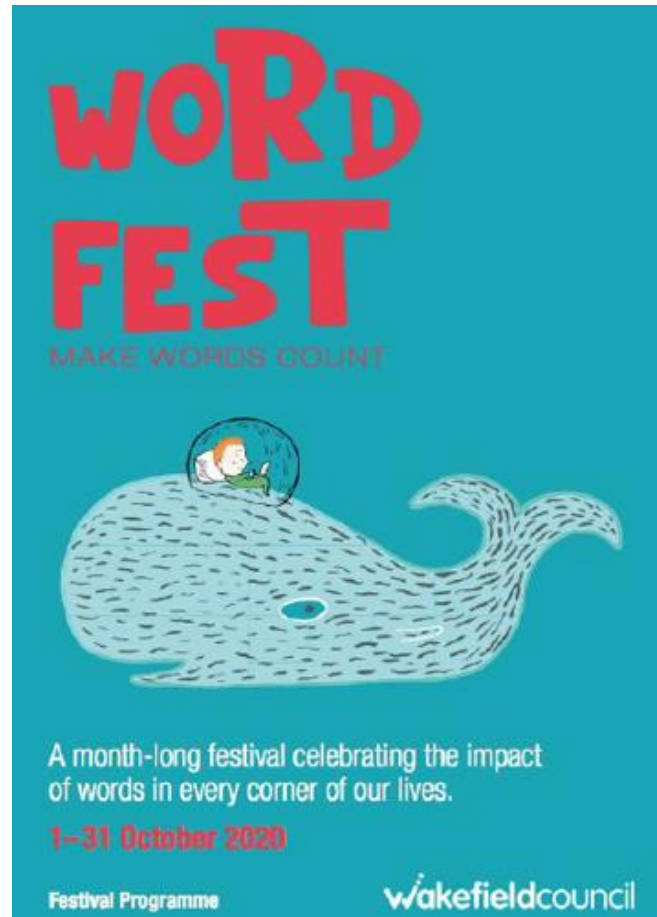


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Festival Of The Earth



WordFest : Wakefield's COP 26



**YORKSHIRE
& HUMBER
CLIMATE
COMMISSION**

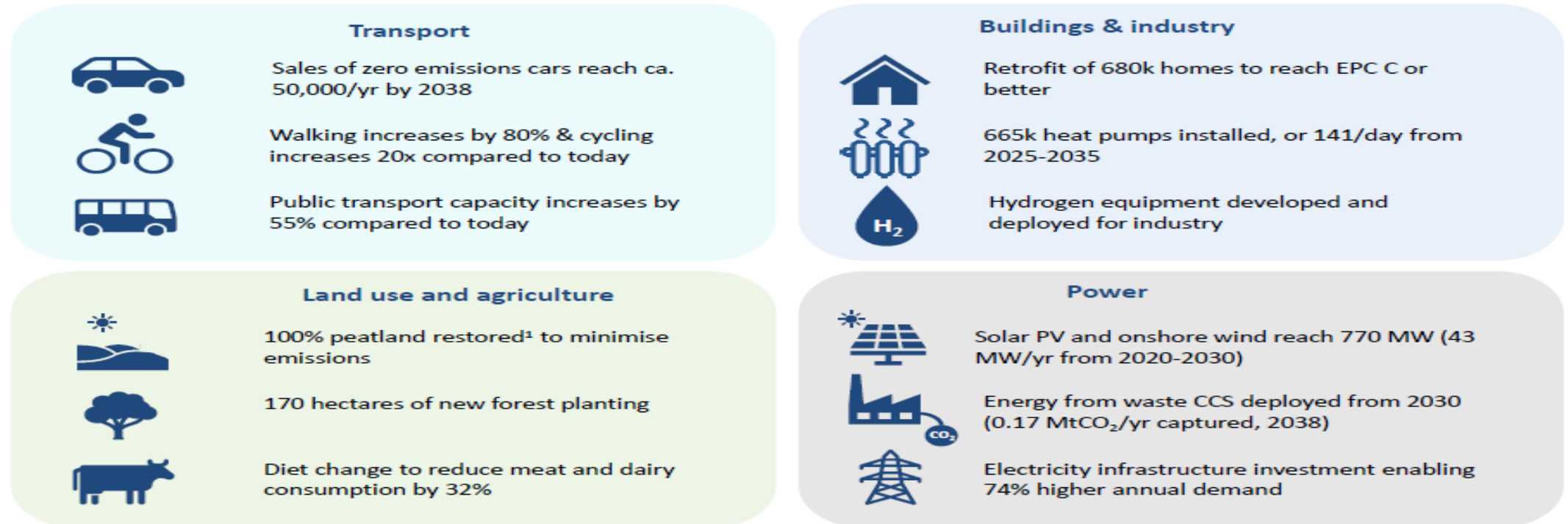
**West
Yorkshire
Combined
Authority**



CCAP - Workstream 6 – Place (district wide)

WYCA Emission Reduction Pathway - 2038

The scale of the challenge – what must happen by 2038 in the Max ambition scenario to meet climate targets?



Our leadership can make a difference

- **Things won't change if we don't change.**
 - Workplaces
 - Working practices
 - Decision making
- **Little steps will make a long-term difference.**
 - Use less energy (buildings and transport)
 - Reduce consumption and waste – be resource efficient
- **Lead by example and encourage others to do the same.**
 - Be prepared to learn from each other – **Lets maximise the APSE family network**
 - Champion the cause
 - Talk about the issues and challenges we face
- **Influence our stakeholders and partners.**
 - Ask what others are doing
 - Use spending power to influence change

We need the right leadership!

In Wakefield there is total political support.

We have a dedicated climate champion – Deputy Leader, Councillor Jack Hemingway



He leads from the front and also recently made an Environmental pledge!
Here he is telling us why.

Any Questions?



[Wakefield MDC](#)



[Wakefield Council - Climate Change Action Plan](#)



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