



Minewater Heat

Ellie Grimes

Net Zero Team Leader- County (JS) and Low Carbon Development & Partnerships Officer

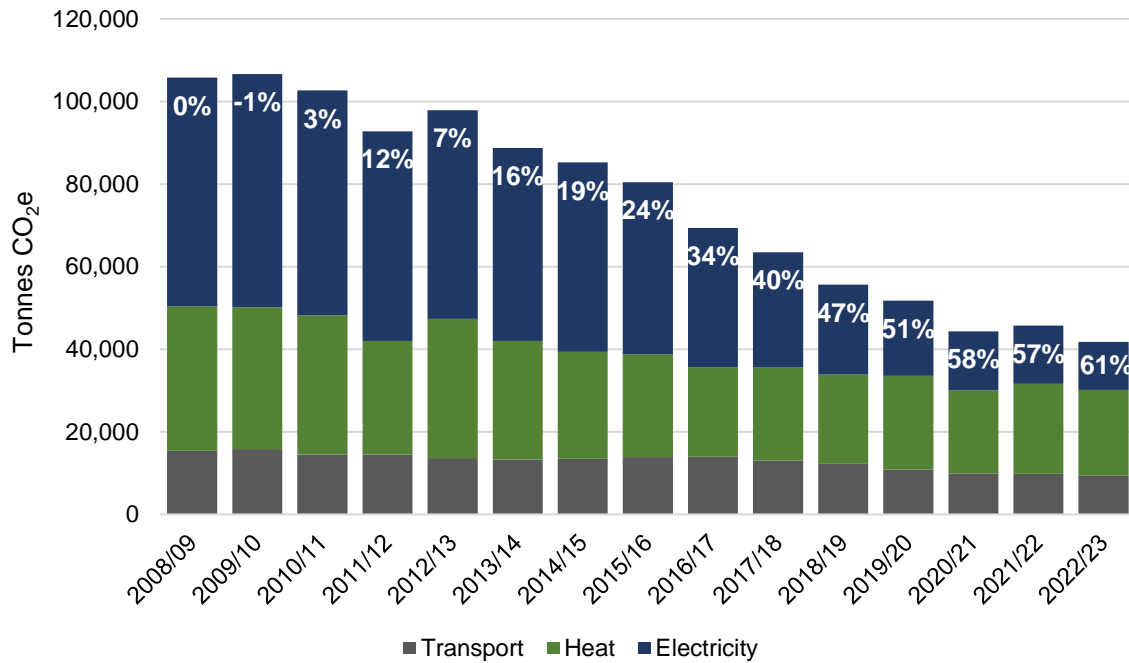
Chris Myers

Team Leader
Regeneration, Economy and Growth

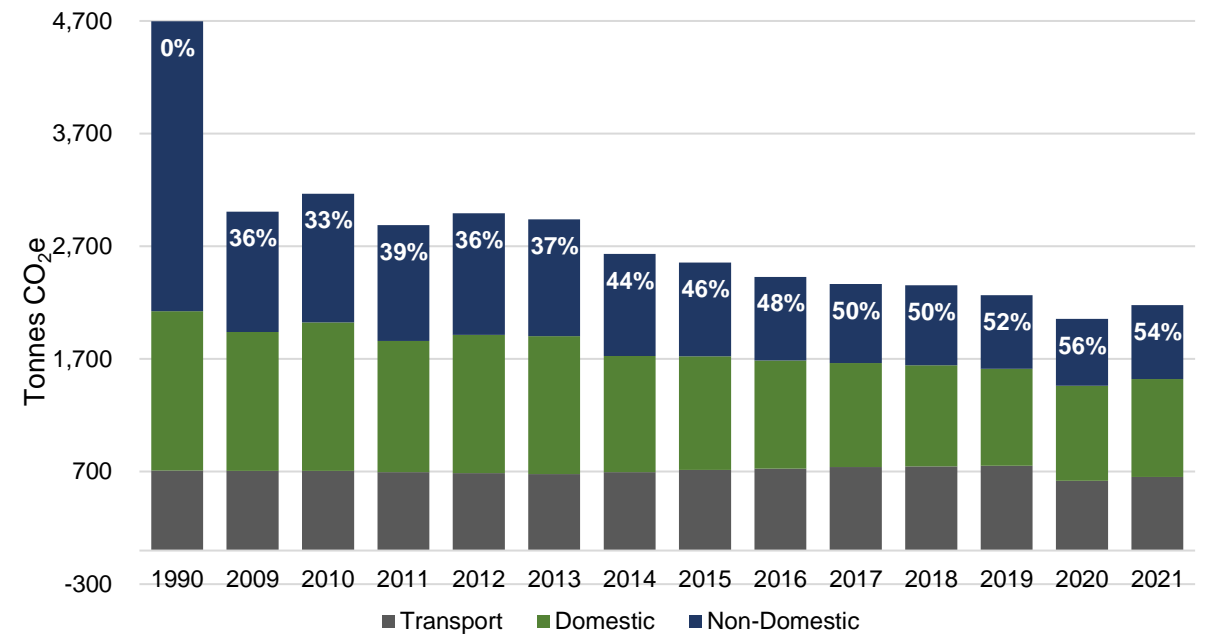


Where we are now

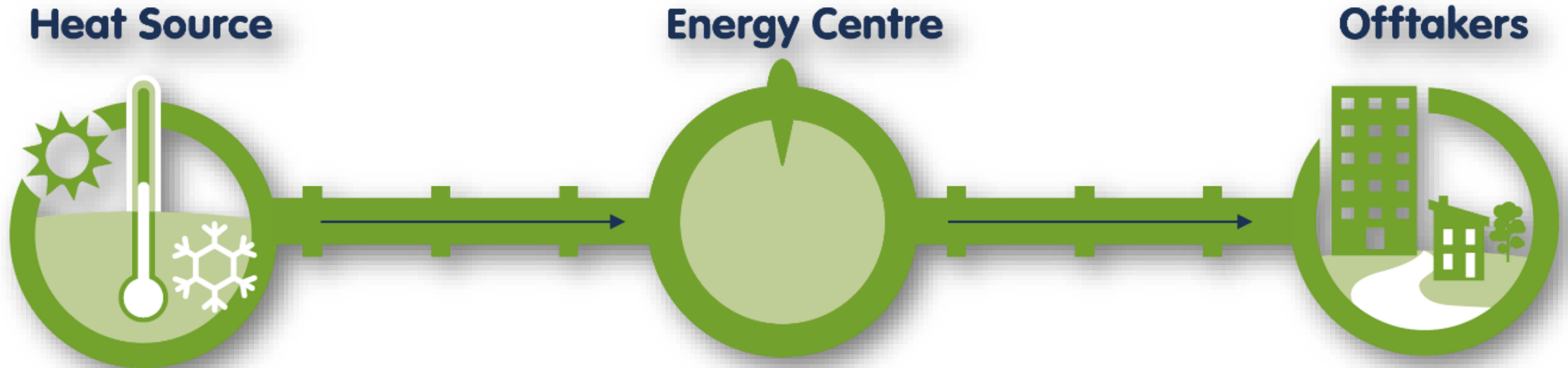
Council emissions



Countywide emissions



What are Heat Networks?



Why Heat Networks?

Advantages

- Low Carbon
- Price stability & affordability
- Capturing waste
- Fuel poverty action
- Technical, skilled, jobs
- Energy security
- Access to low carbon heat
- Pace and scale

Disadvantages

- Risk & capital cost
- Complex
- Not one size fits all
- Consumer protection & regulation*
- Attitudes of developers

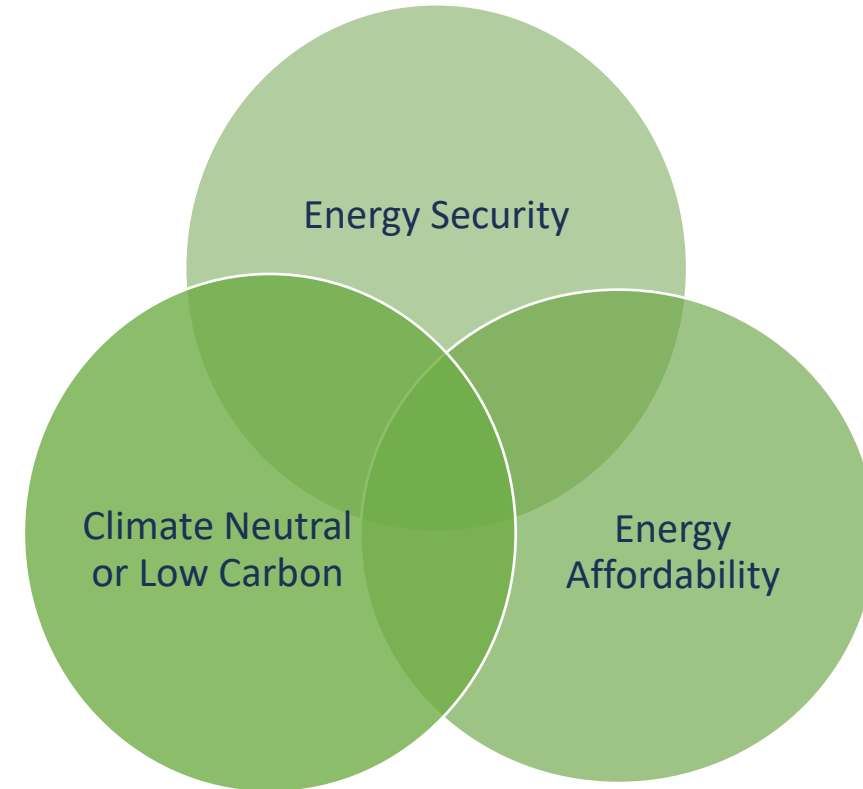
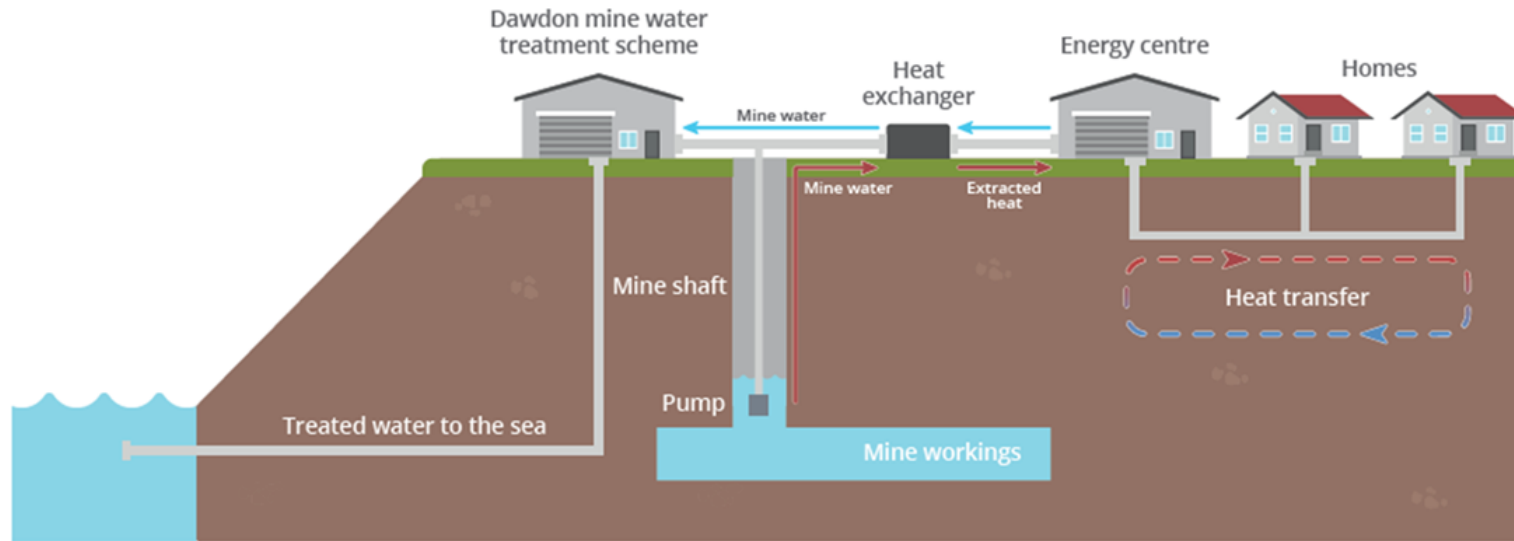


Figure 2: pictorial representation of the Energy Trilemma

Minewater heat: the opportunity

**The Case for Mine Energy
– unlocking deployment
at scale in the UK**

A mine energy white paper



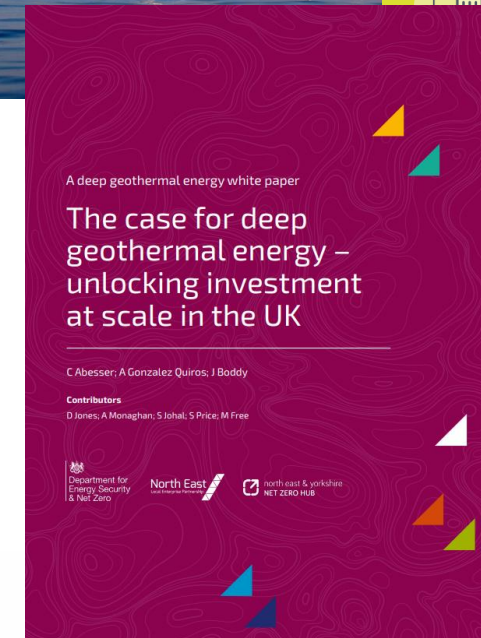
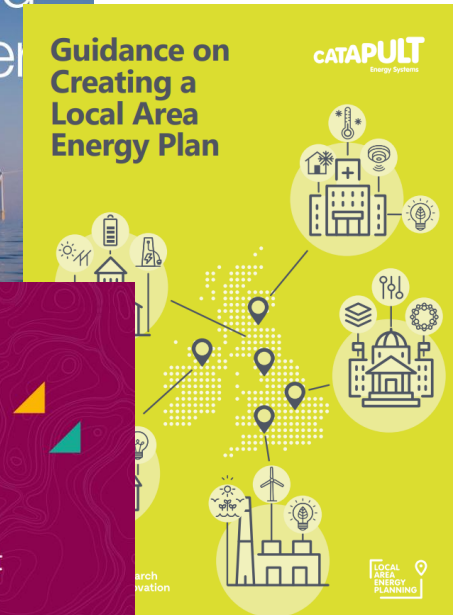
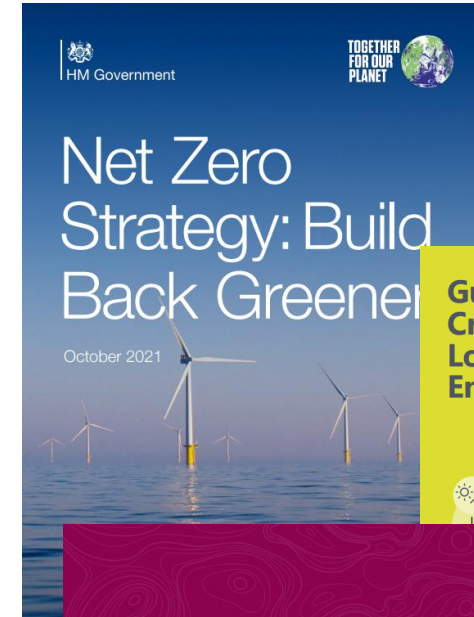
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cl!mate
County Durham



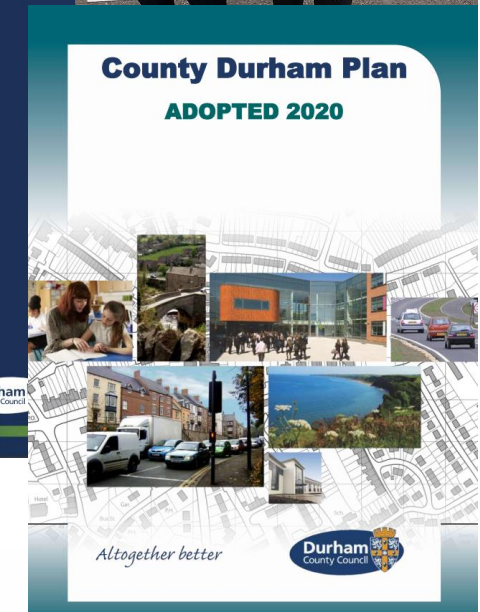
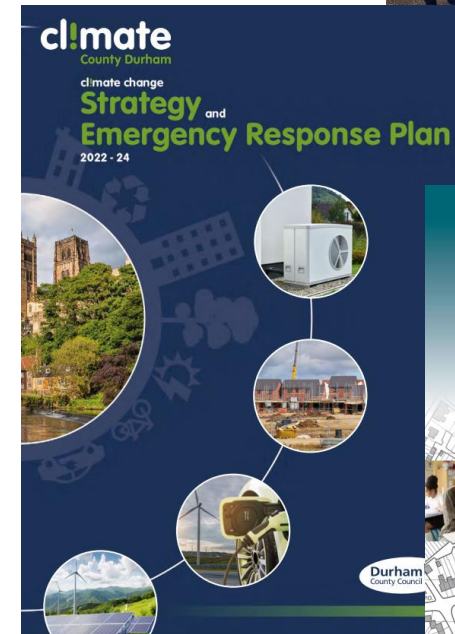
Enablers

- Net Zero Strategy: Build Back Greener
- Zoning
- Local Area Energy Planning
- A deep geothermal energy white paper
- Future Homes & Buildings Standard
- Coal Authority Business Plan
- UKIB strategy



Local Enablers

- Climate Emergency Response Plan
- Heat Network Strategy
- County Durham Plan
- Housing Decarbonisation schemes
- Durham's Partnerships



Heat Networks in County Durham

 Seaham Garden Village

 Horden Minewater

 Durham City Centre



Heat Mapping study



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County Durham



Minewater Heat: the solution?

Advantages

- Low Carbon
- Capturing waste
- Heritage

Disadvantages

- Technical risk
- Not one size fits all
- Other opportunities
- (Seasonal variations)
- Risk to supply of heat long term
- Corrosive minewater



Thank you, any
questions?

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Appendices



The Challenge

Where we are now in 2024

Durham County Council emissions **down by 58%** from 2008/09.

Countywide carbon emissions **down by 54%** from 1990

Laying foundations for 2030

Actions for 2030 Council emissions to be **reduced by 80%** from 2008/09 levels and **net zero overall**.

County Durham emissions to be **reduced or offset by 80%** from 1990 levels.

County Durham's Aims for 2045

Carbon Neutral County
All carbon emissions from the council and the whole of County Durham to be stopped or offset by 2045.

