



Climate Emergency Response

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CERP Progress Update

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 - Emissions and Targets
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Background

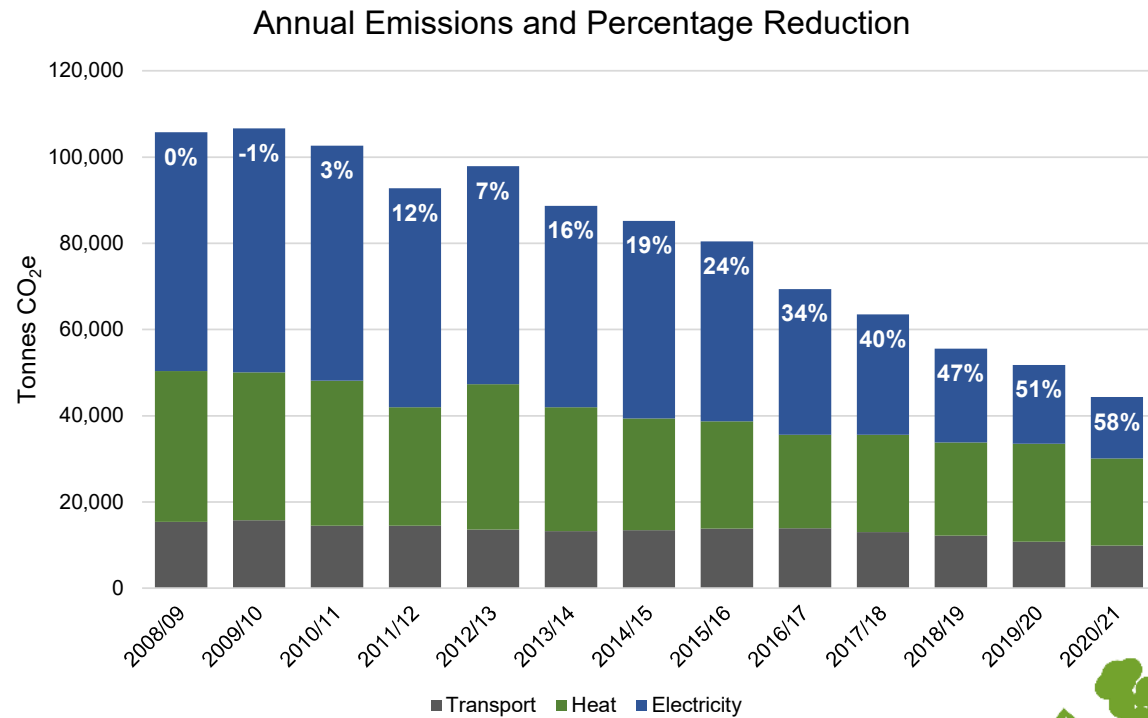
- Carbon Management plan since 2009/10
- Climate Emergency declared February 2019



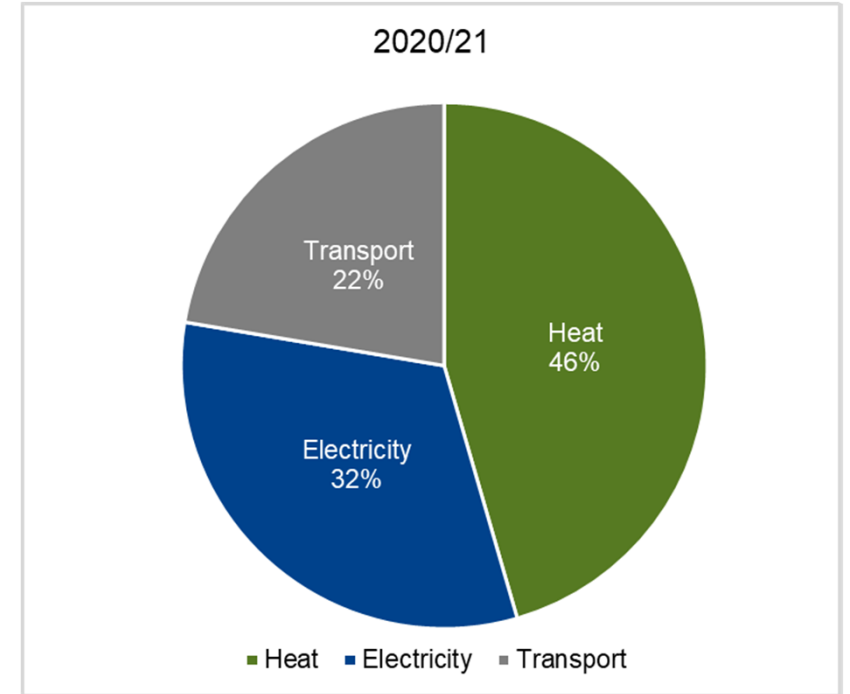
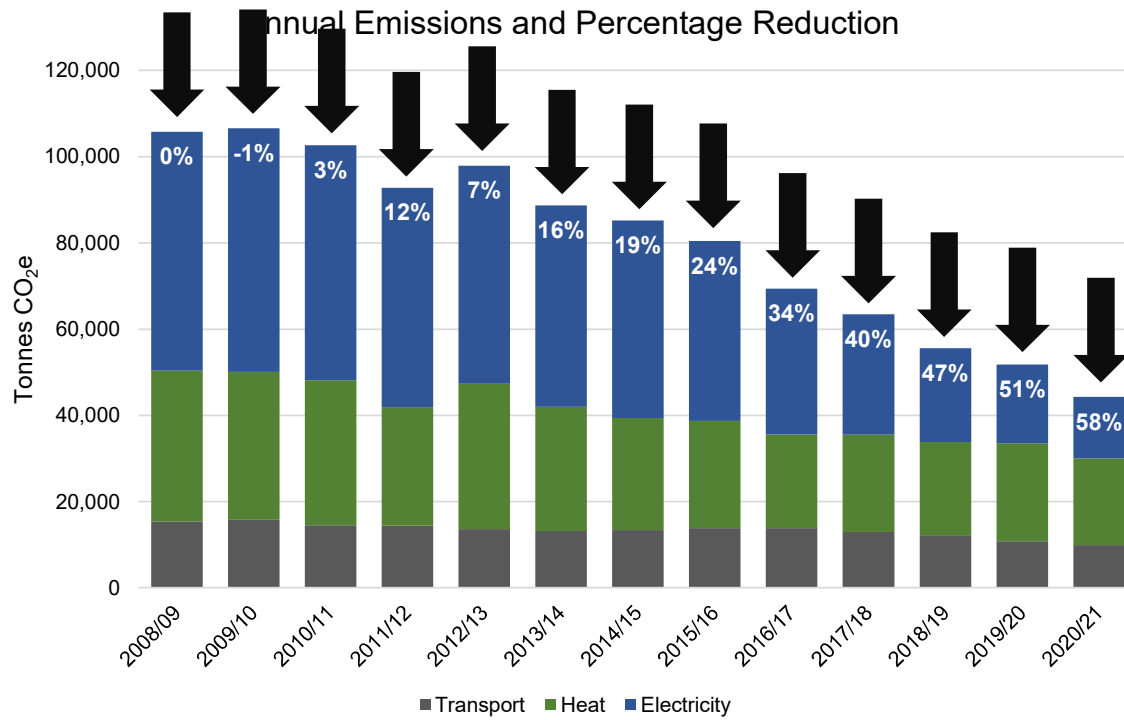
Council Emissions and Targets

How are we doing?

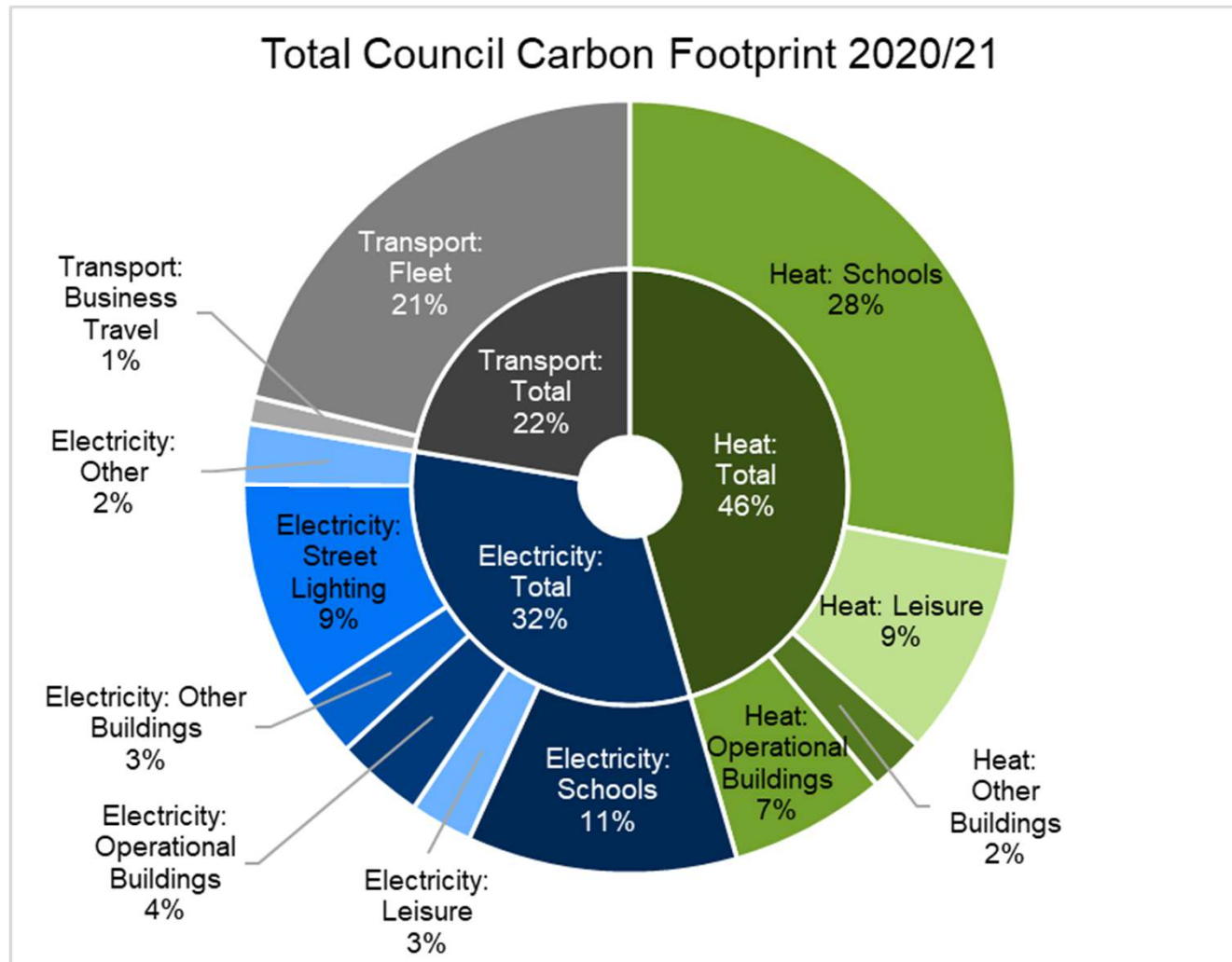
- This year compared with earlier years
- Current Emissions Breakdown
- Budget and Targets
 - Costs



Council – Compared with previous years



Council – This Year's Breakdown



Council Carbon Targets

Climate Emergency

- 80% Reduction by 2030
- Carbon Neutral by 2050

Year	Actual Emissions (tCO ₂ e)	Target Emissions (tCO ₂ e)	Reduction Target (%)	Carbon Management Plans
2019/20	51,787 (51%)	58,173	45%	2015-2020
2020/21	44,319 (58%)	46,608	56%	2020-2025
2021/22		40,330	62%	
2022/23		36,701	65%	
2023/24		33,764	68%	
2024/25		31,401	70%	
2025/26		28,889	73%	2025-2030
2026/27		26,867	75%	
2027/28		24,986	76%	
2028/29		23,237	78%	
2029/30		21,200	80%	



Council – Projected Costs

Funds available

- Climate Emergency Fund
 - £3M over two years
 - Council capital funding
- Public Sector Decarbonisation Scheme
 - Government grants shared by the whole public sector
 - £1bn in 2020, £75M in March 2021 and an unknown amount in October 2021
 - Future rounds expected but not guaranteed.

Costs Expected to 2030

- Heat
 - Boiler replacements: ~£100M by 2030
 - BEMS: £variable per building
- Transport
 - Fleet renewals: ~£10M by 2030
 - Avoiding travel: £negligible
- Electricity
 - Invest to save



Council – Areas of Priority

Heat (46% or 20,174 tonnes)

- Using gas in our boilers currently emits almost as much CO₂e as our total 2030 target.
- To reach 2030 target we must stop using gas to heat many of our buildings.

Electricity (32% or 14,238 tonnes)

- Reduction so far has been two thirds due to the decarbonisation of the national grid and one third due to our efficiency and generation works.
- Electricity is expensive – renewable generation saves money which can support other projects.
- Renewable generation adds resilience.

Transport (22% or 9,907 tonnes)

- Business travel down during pandemic.
- Electrifying fleet.
- Maintain remote meetings to avoid unnecessary travel.

Schools (39% or 17,395 tonnes)

- Electricity use reduced during pandemic.
- Cross-border MATs
- Supporting school budgets



CERP Actions

Council Actions

- Table of progress
- 79% of projects are either on track or complete.

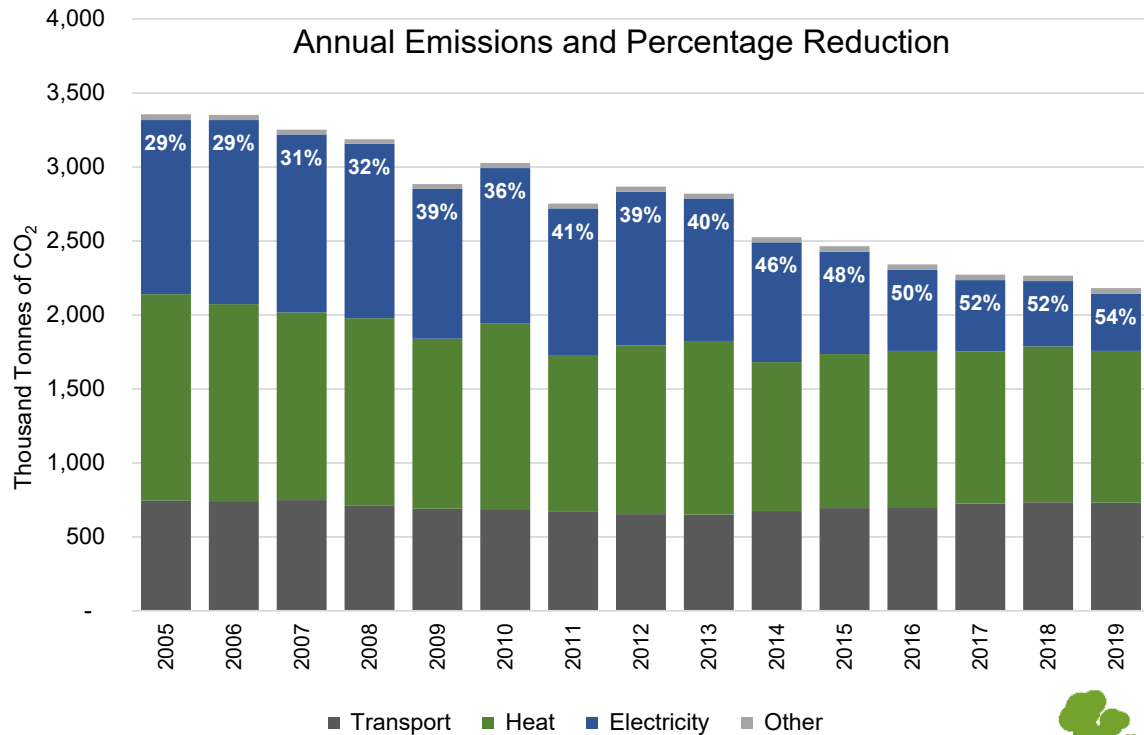
Actions with Delays	5
On Track	18
Complete	4
On Hold	1
Total	28



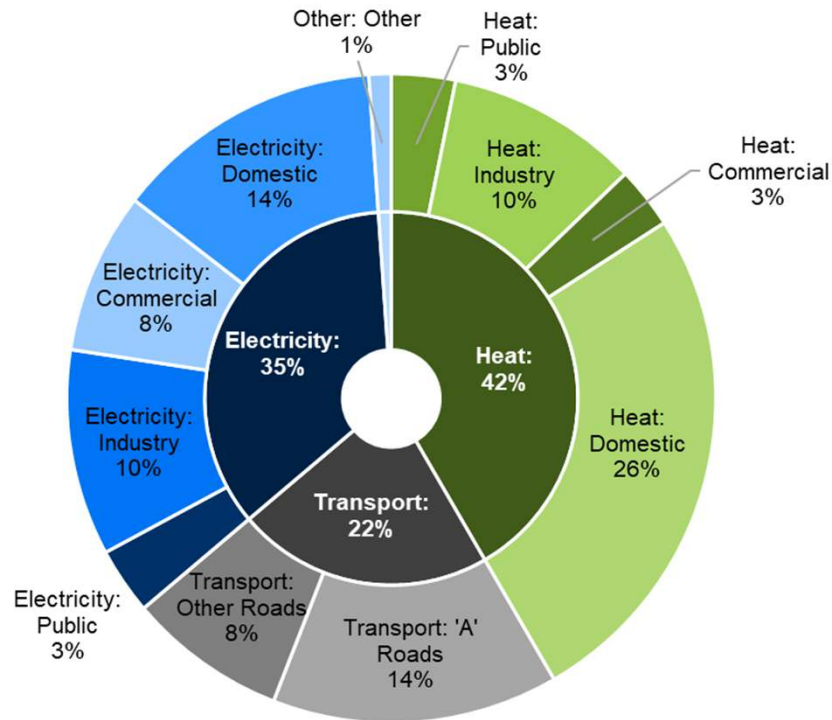
Countywide Emissions and Targets

Contents

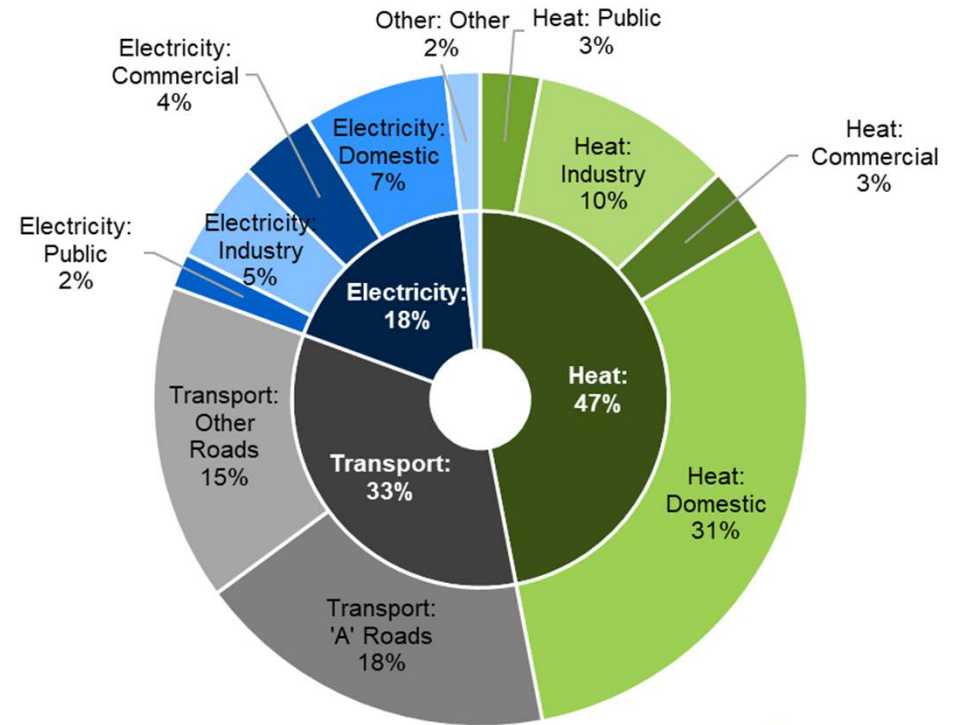
- This year compared with earlier years
- Current Emissions Breakdown
- Areas of Priority
 - Heat
 - Transport
 - Electricity
- Budget and Targets



2005 compared with 2019



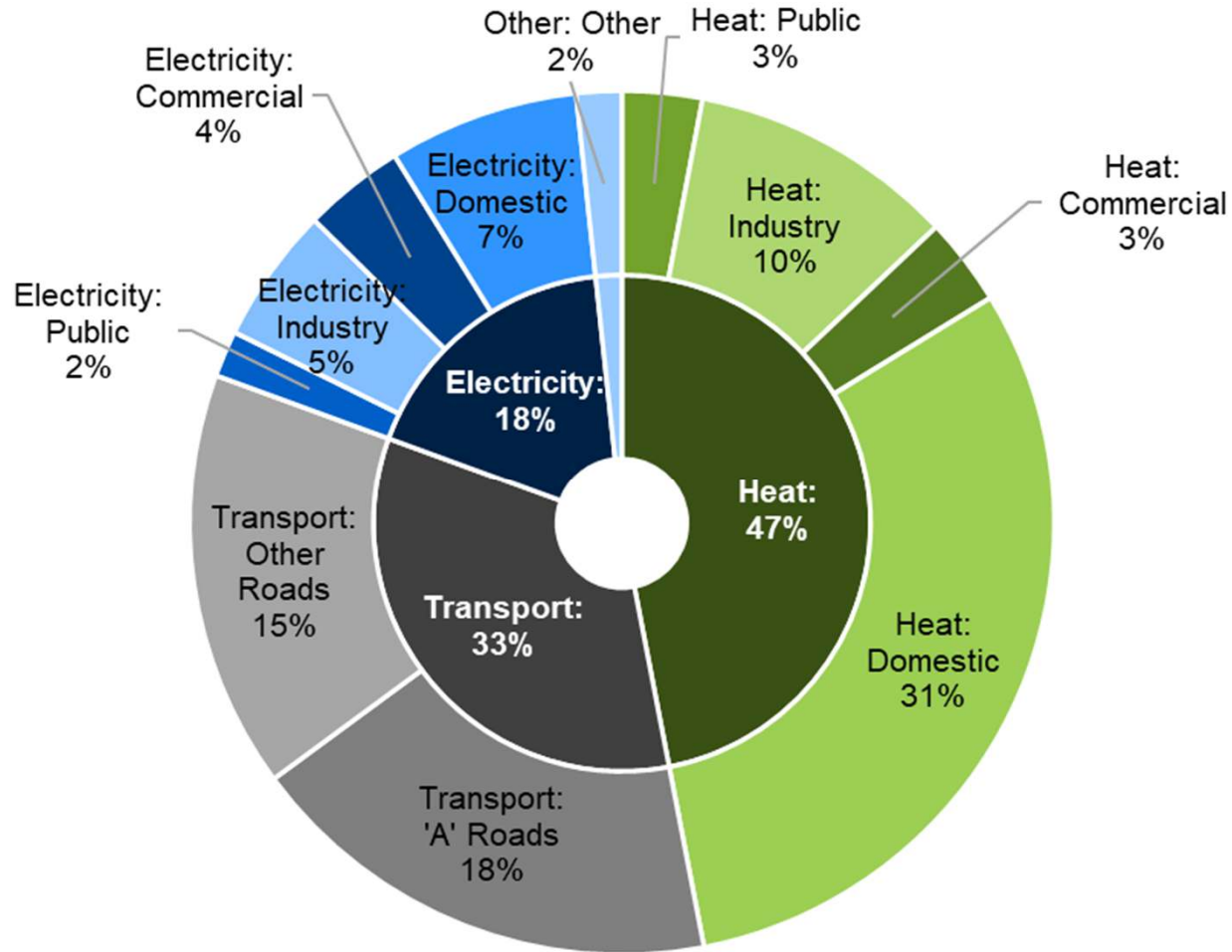
2005



2019

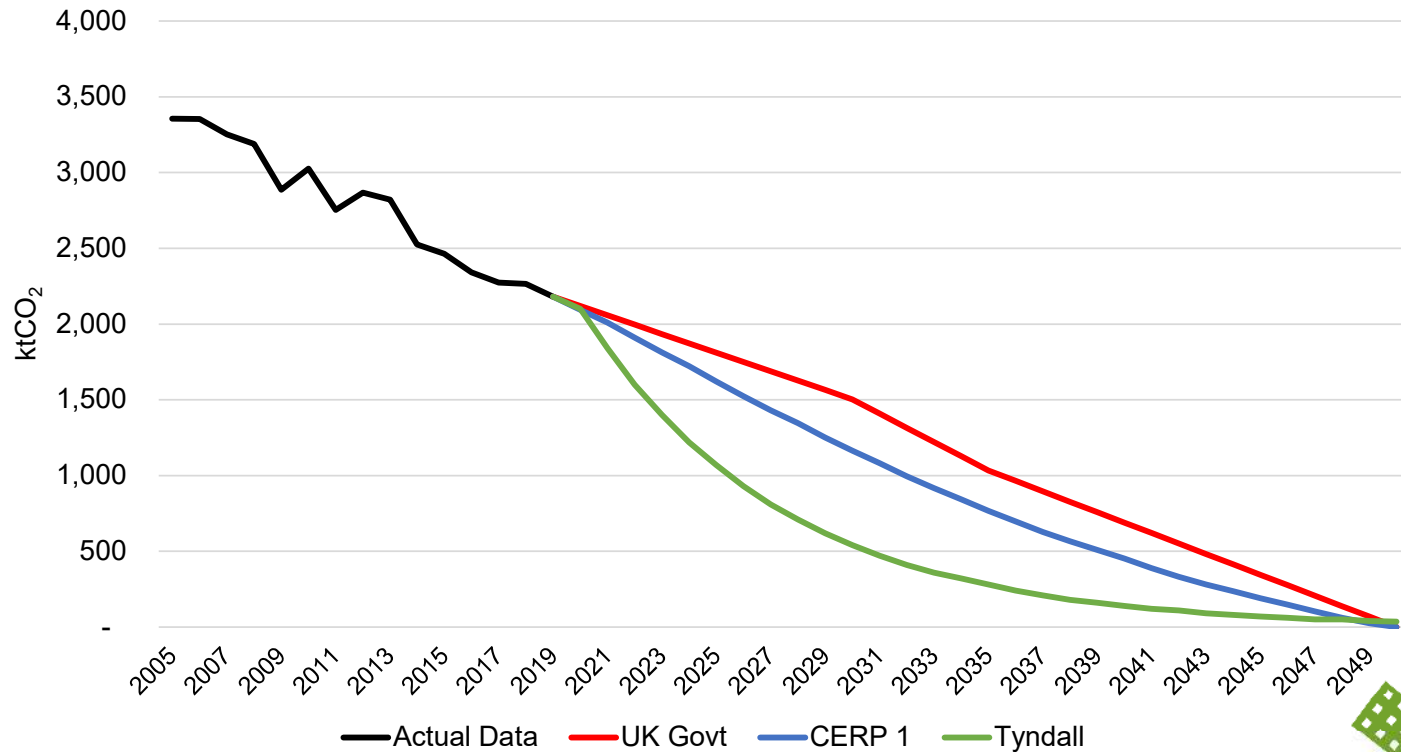


Countywide Emissions Breakdown 2019



County Carbon Budget

Graph of Historic Carbon Footprint Data and Three Possible Carbon Budgets



Budget to 2050:

- UK Govt
35,444 kt CO₂
- CERP 1
29,283 kt CO₂
- Tyndall
18,496 kt CO₂



County – Areas of Priority

Heat (47%, or 1,024 thousand tonnes)

- Domestic heating is the biggest single source at 670kt or 31% of the total.
- 236,000 households in Durham

Electricity (18% or 387 thousand tonnes)

- Reduction largely due to grid factor
- Support reducing grid factor through renewable generation

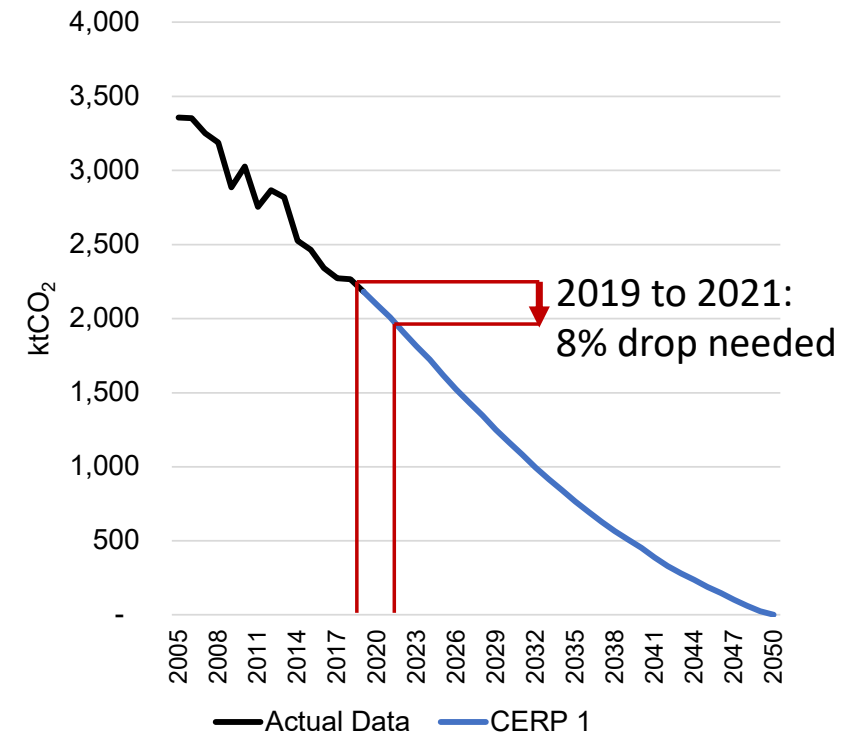
Transport (34% or 733 thousand tonnes)

- Road traffic only
- 292,000 road vehicles registered in Durham

Natural Environment & Offsetting (-48 thousand tonnes)

- LULUCF
 - How we use our land and how much forestry we have
- Renewables
 - separate report – not included in the 47kt figure.

Graph of Historic Carbon Footprint Data and CERP 1 Carbon Budget



CERP Actions

County Actions

- Table of progress
- 82% of projects are either on track or complete

Actions with Delays	7
On Track	52
Complete	11
On Hold	7
Total	77

