



JOINTLY OWNED BY



Working together to reduce GHG emissions and hit net zero

Huw Russell, Director – Climate, Local Partnerships

Liz Vango-Smith, Sustainability and Climate Change Officer
Hart District Council

22 October 2024



WHO WE ARE

Local Partnerships delivers value and efficacy for the public purse.

As a **key interface between local and central government**, we provide expert advice and practical resources alongside project/programme delivery support, enabling public services to thrive.

As an **in-house consultancy jointly owned by the LGA, HM Treasury and Welsh Government**, we work solely for central government departments, The Welsh Government, Councils and Combined Authorities.

Whether supporting and accelerating the delivery of major infrastructure, tackling climate challenges through waste efficiency and renewable energy propositions through to wider place-making initiatives, we help transform services across the public sector ecosystem.



THREE CORE BUSINESS SERVICES UNDERPIN OUR OFFER



OUR SERVICES

Resource Efficiency and Waste



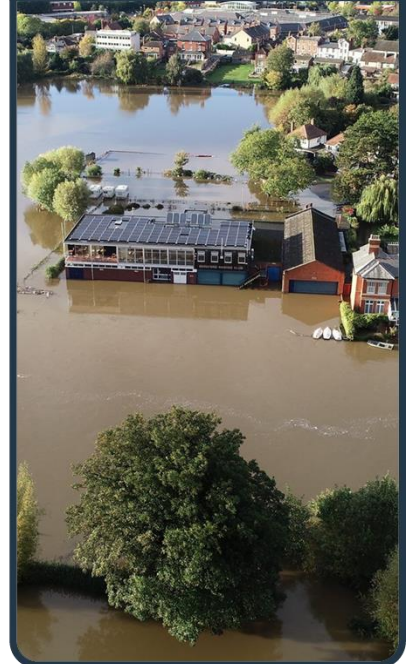
Renewables



Energy Efficiency



Net Zero and Climate Adaptation



POINTS TO COVER

- The GHG Accounting Tool
- The Waste Emissions Calculator
- Using the tools to target interventions towards net zero
- Benchmarking and sharing best practice through LG Inform
- Engaging with stakeholders and communicating progress

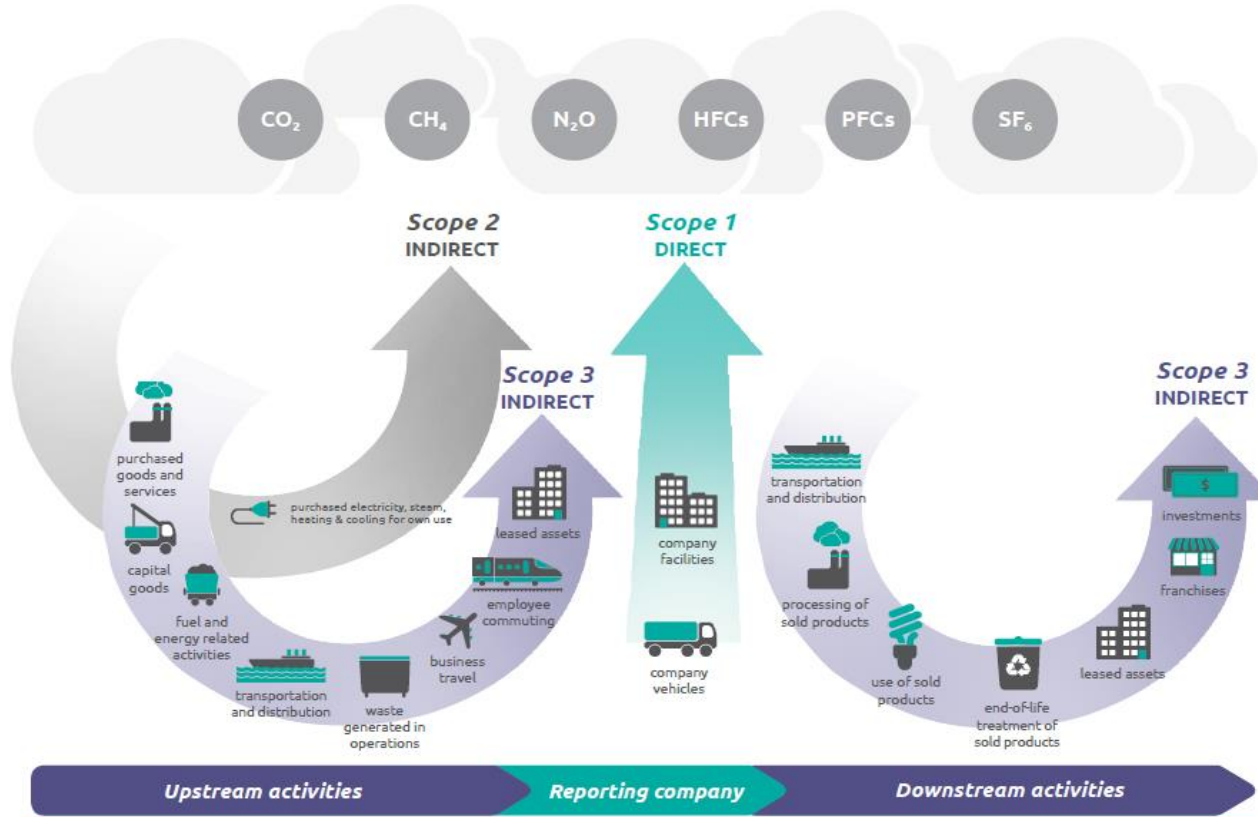
Hart District Council:

- Data collection
- Establishing reporting boundaries
- Re-baselining reported emissions

Q + A



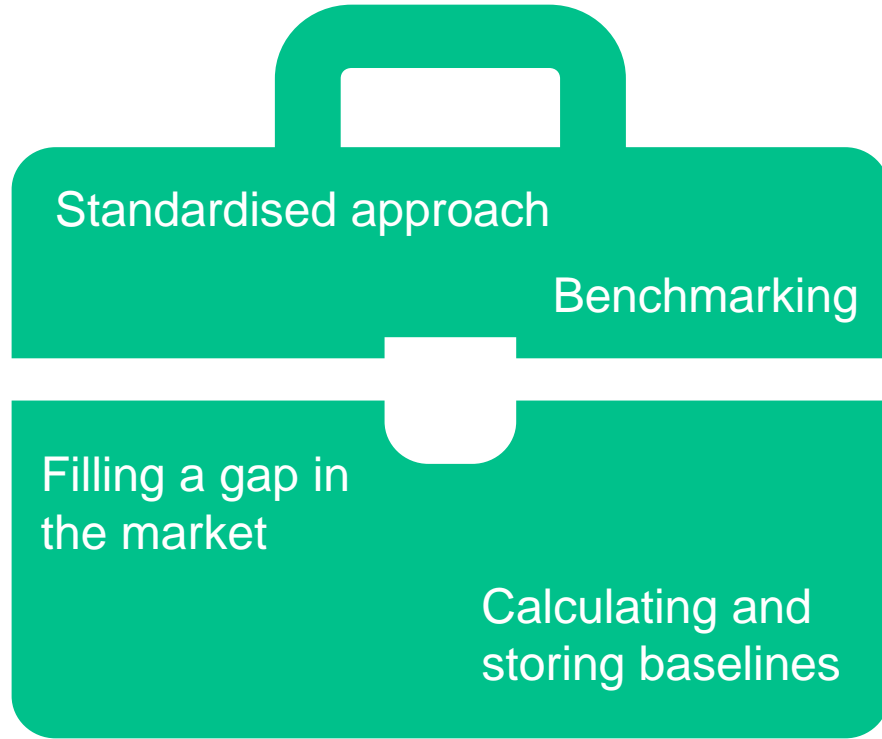
THE GREENHOUSE GAS PROTOCOL



A Corporate Accounting and Reporting Standard
REVISED EDITION



THE GREENHOUSE GAS ACCOUNTING TOOL



WHAT TYPE OF INFORMATION IS REQUIRED?

Activity	Consumption Units (Please Select)	Year	Consumption	Conversion Factor	Emissions (tCO ₂ e)
Natural Gas	kWh (Gross CV)	2019-20	10,000	0.184	1.84
Burning Oil - Kerosene	kWh (Gross CV)	2019-20		0.247	Enter Consumption Figure
Gas Oil	kWh (Gross CV)	2019-20		0.257	Enter Consumption Figure
Wood Pellets	kWh (Gross CV)	2019-20		0.016	Enter Consumption Figure

Activity	Consumption Units	Year	Consumption	Conversion Factor	Emissions (tCO ₂ e)
Building Use	kWh	2019-20		0.256	Enter Consumption Figure
Streetlighting	kWh	2019-20		0.256	Enter Consumption Figure

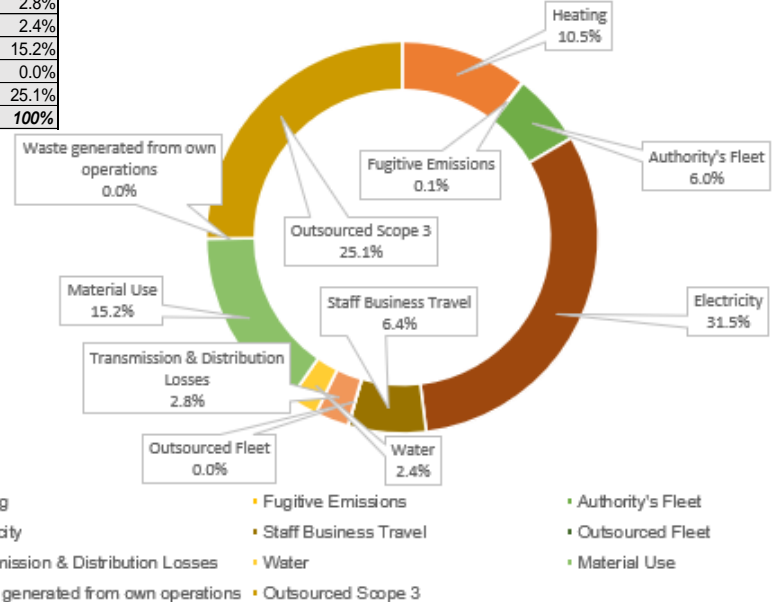
Activity	Consumption Units	Year	Consumption	Conversion Factor	Emissions (tCO ₂ e)
Water Supply	Cubic Meter	2019-20		0.344	Enter Consumption Figure
Water Treatment	Cubic Meter	2019-20		0.708	Enter Consumption Figure

Activity*	Consumption Units (Please Select)	Year	Consumption	Conversion Factor	Emissions (tCO ₂ e)
Engine sizes below are for indicative purposes only					
Small diesel car ≤ 1.7 litre	Litres	2019-20		2.594	Enter Consumption Figure
Medium diesel car, 1.7 - 2.0 litre	Mi	2019-20		0.275	Enter Consumption Figure
Large Diesel Car > 2.0 litre	Mi	2019-20		0.337	Enter Consumption Figure
MPV - Diesel	Mi	2019-20		0.291	Enter Consumption Figure
Diesel van Class I (up to 1.305 tonnes)	Mi	2019-20		0.241	Enter Consumption Figure
Diesel van Class II (1.305 to 1.74 tonnes)	Mi	2019-20		0.313	Enter Consumption Figure
Diesel van Class III (1.74 to 3.5 tonnes)	Mi	2019-20		0.447	Enter Consumption Figure

HOW THE GREENHOUSE GAS ACCOUNTING TOOL CAN HELP

Summary

Scope	Emissions Type	Emissions (tCO ₂ e)	Percentage of Total Emissions
Scope 1	Heating	917.94	10.5%
	Fugitive Emissions	6.75	0.1%
	Authority's Fleet	524.69	6.0%
Scope 2	Electricity	2,760.29	31.5%
Scope 3	Staff Business Travel	560.02	6.4%
	Outsourced Fleet	2.37	0.0%
	Transmission & Distribution Losses	244.99	2.8%
	Water	210.50	2.4%
	Material Use	1,335.21	15.2%
	Waste generated from own operations	0.00	0.0%
	Outsourced Scope 3	2,198.46	25.1%
	Total Emissions		8,761.22



ONGOING UPDATES TO THE TOOL

Last updated August 2024

- Updated FAQ
- Scope 3 guidance published in 2022
- DESNZ emissions factors are published annually around July
- Waste Emissions Calculator added in January 2023
- Power BI – tab that can be used to import data into Power BI for your own dashboard development
- **Submission of completed toolkits to LG Inform will assist with evaluation of reporting boundaries and support continued updates to the toolkit**

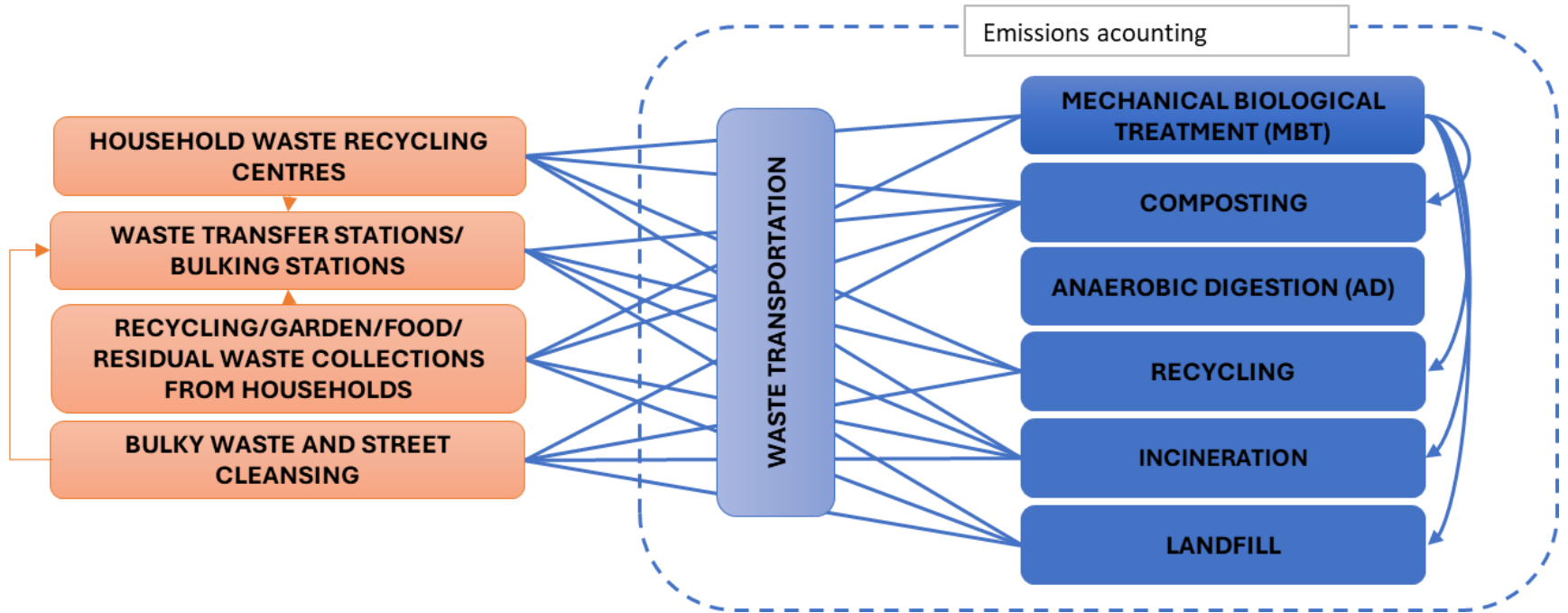


THE WASTE EMISSIONS CALCULATOR



Cambridgeshire
County Council

EACH TAB CORRESPONDS TO A METHOD OF WASTE TREATMENT

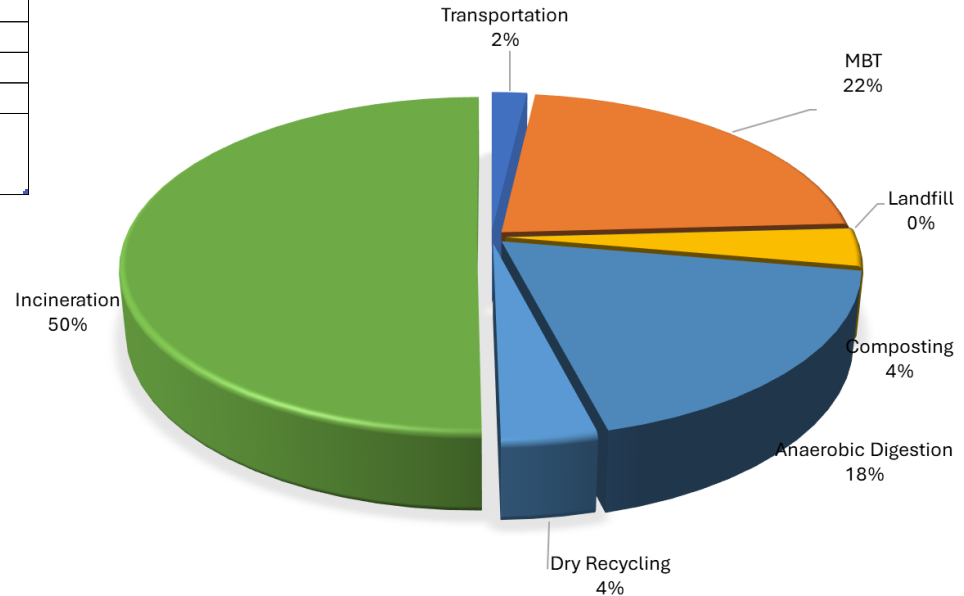


SUMMARY TABLES AND PIE CHARTS

GHG emissions

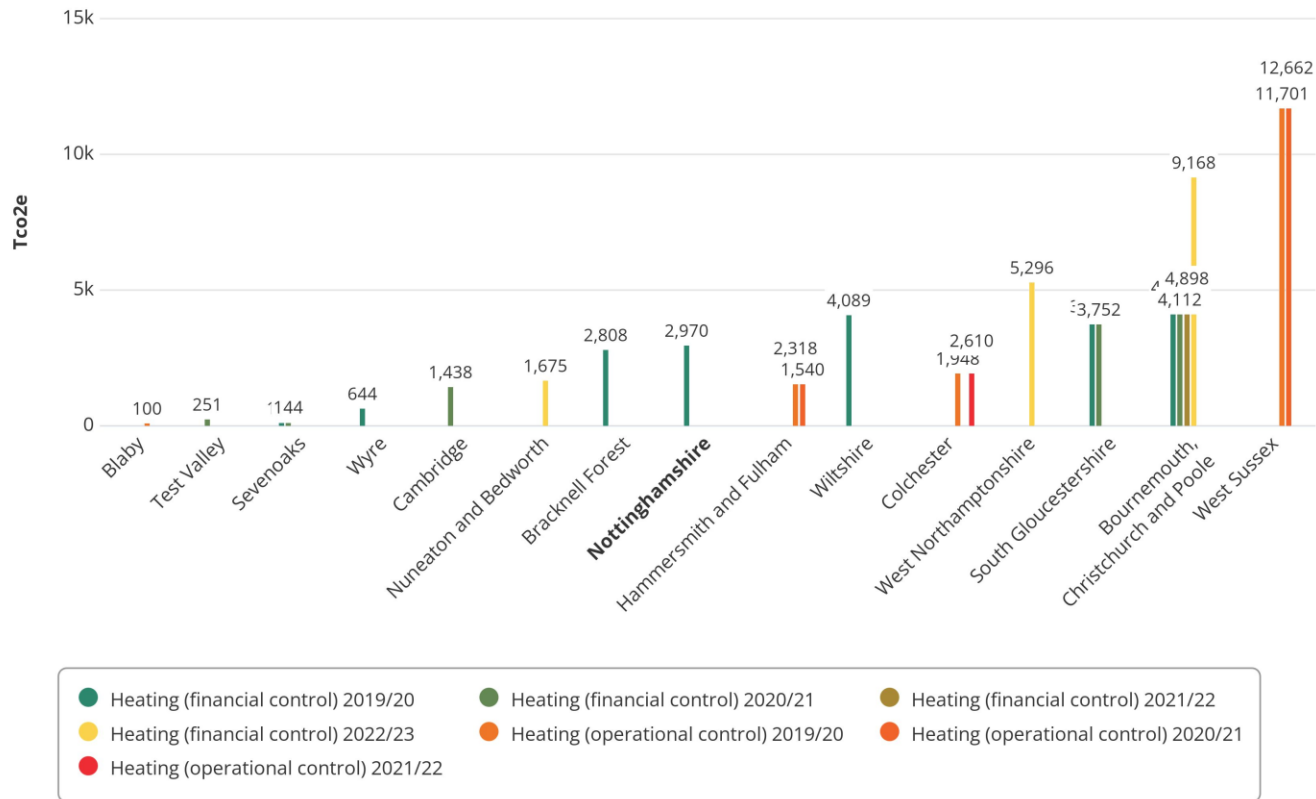
Waste management stage	GHG emissions not including biogenic CO ₂ emissions	Biogenic CO ₂ emissions, outside of scopes	Units
Transportation	1	0	tCO ₂ e/yr
MBT	10	-	tCO ₂ e/yr
Landfill	-	-	tCO ₂ e/yr
Composting	2	0	tCO ₂ e/yr
Anaerobic Digestion	8	0	tCO ₂ e/yr
Dry Recycling	2	0	tCO ₂ e/yr
Incineration	21	21	tCO ₂ e/yr
Total	43	22	tCO₂e/yr
Overall waste management GHG intensity	0.0	0.0	tCO ₂ e/t waste treated

CONTRIBUTION OF WASTE TREATMENT PROCESSES TO TOTAL WASTE TREATMENT AND DISPOSAL SCOPE 3 (CONTRACTED) GHG EMISSIONS



BENCHMARKING AND SHARING BEST PRACTICE THROUGH LG INFORM

Tonnes of carbon dioxide equivalent (CO2e) arising from heating





Bracknell
Forest
Council



CAMBRIDGE
CITY COUNCIL



NORTH
YORKSHIRE
COUNCIL



BLACKBURN
with
DARWEN
BOROUGH COUNCIL



Nottinghamshire
County Council



hammersmith & fulham



Reporting operational emissions

Liz Vango-Smith, Sustainability and Climate Change Officer

22 October 2024

What will be covered

Council's key priorities

- Accurate baseline of emissions
- Measure progress against baseline
- Identify priorities

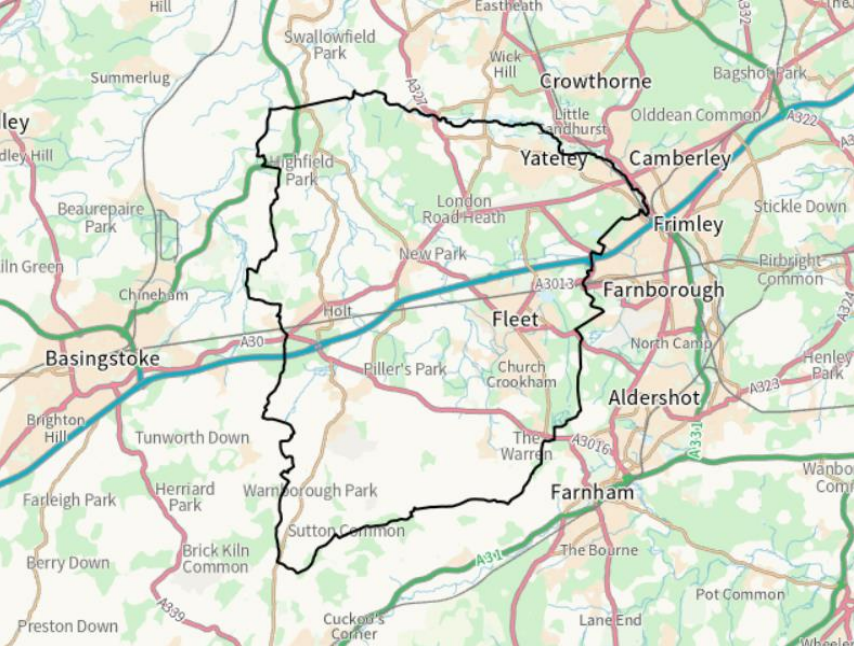
Areas to address

- Data collection
- Data quality
- Establishing reporting boundaries
- Consistent use of emissions accounting tool



Where is Hart?

- District in North East Hampshire, named after the River Hart
- Largely rural villages, with some small urban towns, surrounded by countryside and agricultural land
- Population approximately 99,000
- Declared a climate emergency in 2021



Why measure emissions?

- Benchmark and write reports
- Supports grant applications
 - Low Carbon Skills Fund
 - Public Sector Decarbonisation Scheme funding
- Informs priorities with meaningful action



Data collection and recording

Problem

- Too many cooks!
- Data storage varied between staff and delivery partners
- Change in personnel



Data collection and recording

Solution

- Started dialogues with key staff
- Relayed the **why** (importance of data collection)
- Direct access to data (reduce chance of 'single point of contact' failure)
- Regular liaison to keep up to date



Data quality

Problem

- Manual collection
 - Labour intensive
 - Human error
- Different ways of collecting information, impacting on data produced (e.g. report generation)
- Limited raw data (reduced robustness of conclusions)



Data quality

Solution

- Identify gaps in existing data and discussions with key staff
- Applied gap treatment for missing information
- Keep ongoing gap treatment log to help understand and inform



Establishing reporting boundaries

Hart uses 'The Greenhouse Gas Protocol Corporate Accounting and Reporting Standard' as reporting method, considered good practice

Financial or operational control?

Financial control: *The council directly controls all reported emissions, due to financial activity*

Operational control: *Emissions are reported where the council has full authority to introduce and implement operating policies to control emissions*





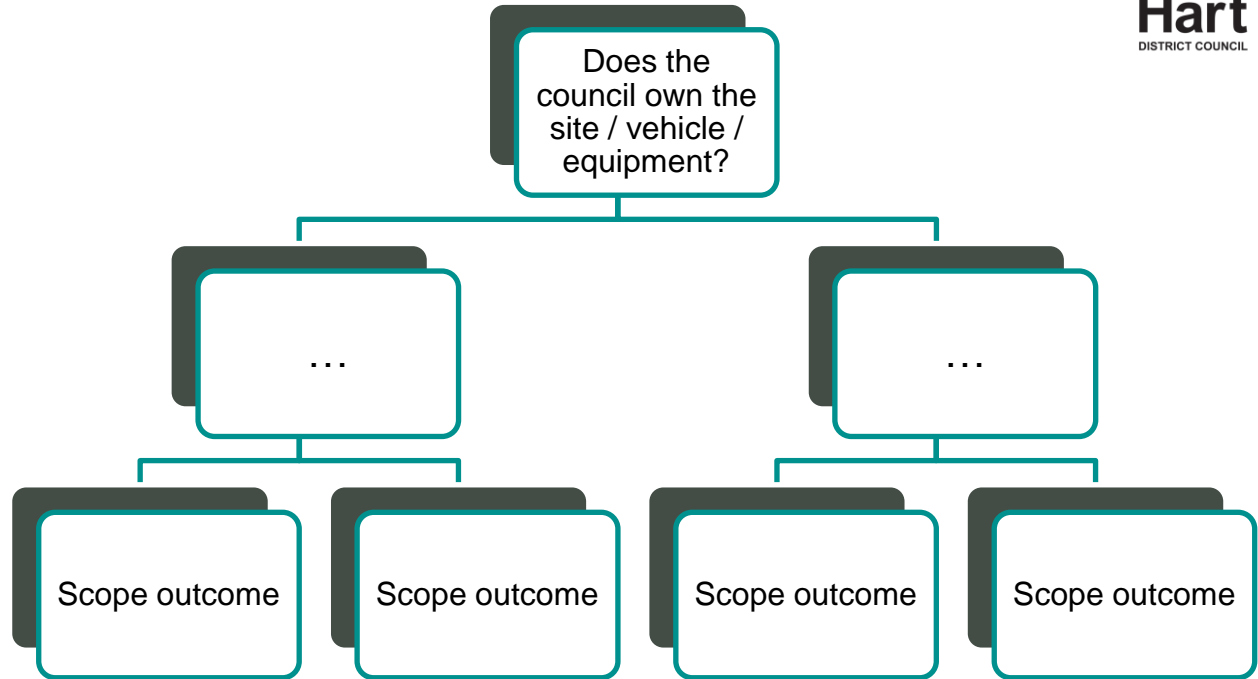
Establishing reporting boundaries

Solution

- Operational reporting boundary
- Includes scope 3 emissions that are outsourced contracted services
- Use of boundary decision tree



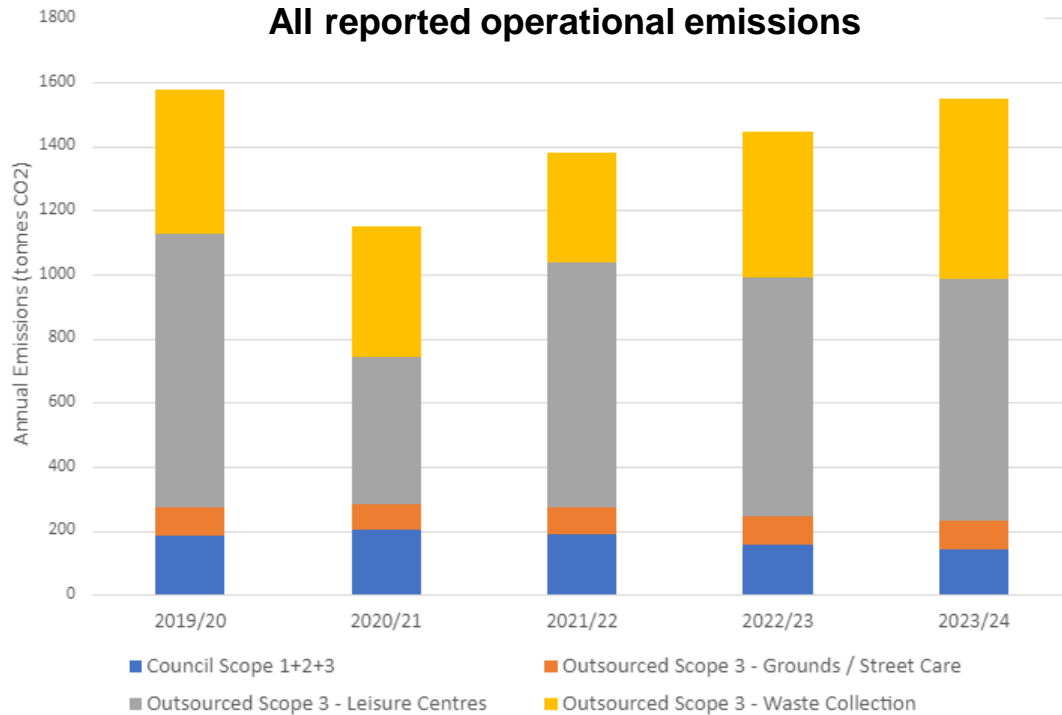
Boundary decision tree



Outcome options:

- Within scope (1 and 2)
- Within scope 3 (recommended)
- Within scope 3 (optional)
- Outside of scope

Data report and analysis



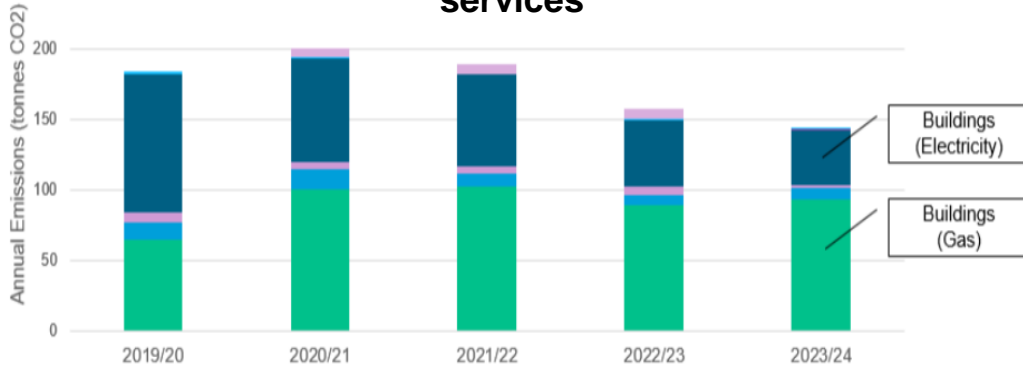
Includes scope 1, 2 and 3 reported emissions

Upward trend



Data report and analysis

Operational emissions excluding outsourced services

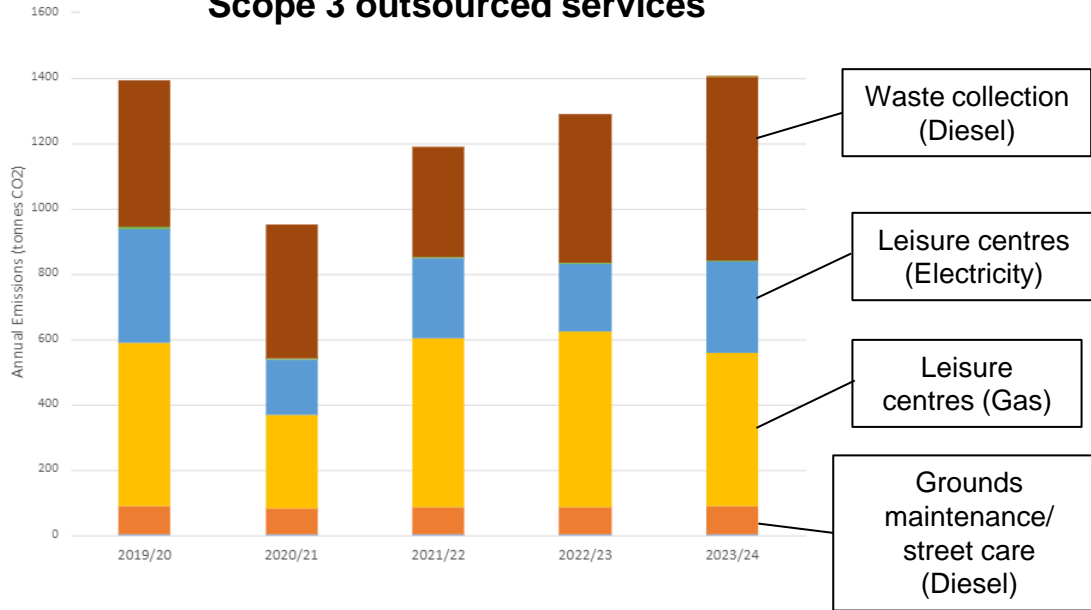


- Graph excludes scope 3 emissions from outsourced services (leisure centres, waste collection)
- Downward trend
- Reduced background noise from other scope 3 emissions and allows us to focus priorities



Data report and analysis

Scope 3 outsourced services



- Allows us to identify priorities with external stakeholders
- Consider as part of contract negotiations



Top tips

- Look at your data – bitesize chunks
- Decide what to report (reporting boundary, decision tree)
- Keep it simple - Rome wasn't built in a day!

You are not alone!



Thank you

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Q + A





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