







GREENHOUSE GAS ACCOUNTING TOOL & SCOPE 3

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23/05/2024



THE GREENHOUSE GAS ACCOUNTING TOOL

Well established for Local Authorities in England

Standardised approach

Benchmarking

Filling a gap in reporting guidance for the sector

Calculate and store baselines







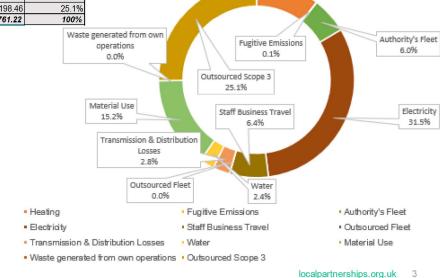




HOW THE GREENHOUSE GAS ACCOUNTING TOOL CAN HELP

Summary

Scope	Emissions Type	Emissions (tCO₂e)	Percentage of Total Emissions
	Heating	917.94	10.5%
Scope 1	Fugitive Emissions	6.75	0.1%
	Authority's Fleet	524.69	6.0%
Scope 2	Electricity	2,760.29	31.5%
	Staff Business Travel	560.02	6.4%
	Outsourced Fleet	2.37	0.0%
	Transmission & Distribution Losses	244.99	2.8%
Scope 3	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	100%

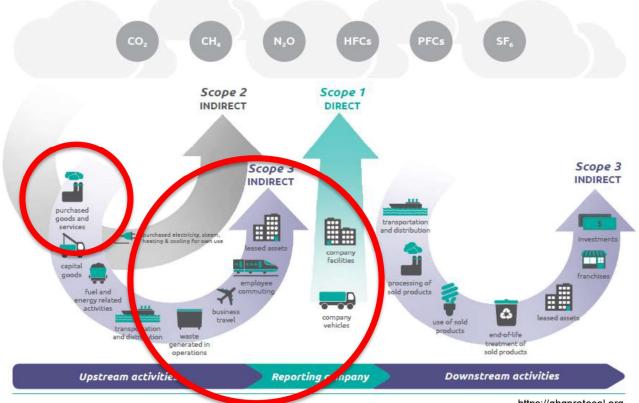


Heating 10.5%





THE GREENHOUSE GAS PROTOCOL





https://ghgprotocol.org



WHAT TYPE OF INFORMATION IS REQUIRED?

Activity	Consumption Units (Please Select)	Year	Consumption	Conversion Factor	Emissions (tCO₂e)
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 (tCO₂e)
Building Use	kWh	2019-2		0.256	Enter Consumption Figure
Streetlighting	kWh	2019-2		0.256	Enter Consumption Figure

Activity	Consumption Units	Year	Consumption	Conversion Factor	Emissions (tCO₂e)
Water Supply	Cubic Meter	2019-20		0.344	Enter Consumption Figure
Water Treatment	Cubic Meter	2019-20		0.708	Enter Consumption Figure

Activity* Engine sizes below are for indicative purposes only	Consumption Units (Please Select)	Year	Consumption	Conversion Factor	Emissions (tCO ₂ e)
Small diesel car ≤ 1.7 litre	Litres	▼ 2019-20		2.594	Enter Consumption Figure
Medium diesel car, 1.7 - 2.0 litre	Mi Consumption Unit	2019-20		0.275	Enter Consumption Figure
Large Diesel Car > 2.0 litre	Mi Please select wheth			0.337	Enter Consumption Figure
MPV - Diesel	Mi Fleet data is report			0.291	Enter Consumption Figure
Diesel van Class I (up to 1.305 tonnes)	Mi Miles or Litres	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
Diocal van Clace III (1 74 to 3 5 tannoc)	Milos	2010 20		0.447	Enter Concumption Figure





WHERE DO I FIND THE INFORMATION FOR THE TOOL?









Route mapping calculations for mileage







Ongoing updates to the toolkit

- User feedback has been forthcoming and welcomed – please continue to engage
- Frequently Asked Questions updated
- Scope 3 Guidance published
- Additional update forthcoming in July when the next set of Department for Energy Security and Net Zero emissions factors are published
- Power BI tab that can be used to import data into Power BI for your own dashboard development







Scope 3 reporting categories for local authorities

Toolkit captures top level data, guidance within document for data collection and calculations



Procured Goods, Material Use and Waste from Own Operations

The toolkit uses volumes, as per the DESNZ dataset not a spend based conversion



Homeworking

- DESNZ factor enter the total number of FTE hours for home workers
- Uses benchmarks for calculation average home working emissions



Employee Commuting

- Use travel survey data
- Likely to be estimated data includes public transport



Outsourced Services - NEW! CONTRACT LEVEL REPORTING

- Waste, Highways, Social Care, Leisure, Facilities Management
- Commissioning cycles



Scope 3 reporting categories for local authorities

Toolkit captures top level data, guidance within document for data collection and calculations



Staff Business Travel / Grey Fleet

· Mileage/fuel use for staff business travel including public transport



Water use

Volumes



Transmission and Distribution Losses

Auto calculated from Scope 2 reporting



Outsourced Services – NEW! CONTRACT LEVEL REPORTING

· Waste, Highways, Social Care, Leisure, Facilities Management





WHY REPORT ON SCOPE 3 ACTIVITY?

Identification of emissions hot spots



Identify and understand risks and opportunities associated with supply chain emissions



[Identify Greenhouse Gas reduction opportunities, set contract level reduction targets, and track performance



Engage supply chain partners in Greenhouse Gas management



Enhance the authority's reputation through public reporting and the influencing role in the local supply chain, particularly for Small and Medium Enterprise (SME) sector





SCOPE 3 BOUNDARY SETTING – CONTRACTS



Criteria

Size

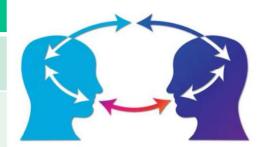
Influence



Stakeholders

Outsourcing – commissioning cycle

Sector guidance







Overview of toolkit tabs - demo



The Greenhouse Gas Accounting Tool has been developed by Local Partnerships, working with the LGA, to provide a straightforward and consistent approach for councils seeking to calculate their own carbon baseline. While currently local authority reporting on emissions is voluntary, consistent and easy calculation of an annual carbon baseline is an important part of managing the carbon in our organisations.



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THE WASTE EMISSIONS CALCULATOR

Huw Russell, Director, Local Partnerships

23/05/2024

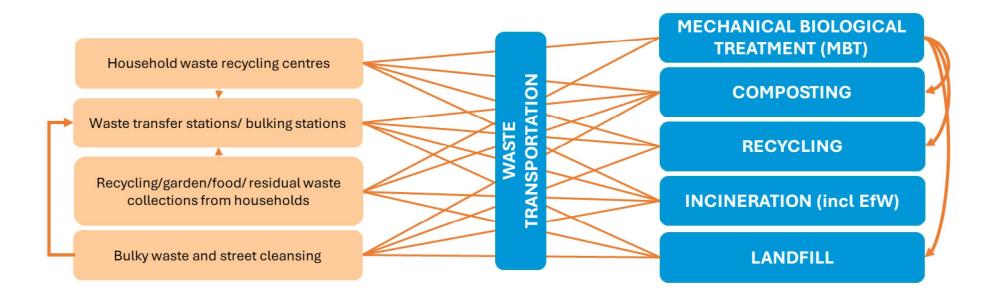
LGA NET ZERO INNOVATION PROGRAMME (past programme)





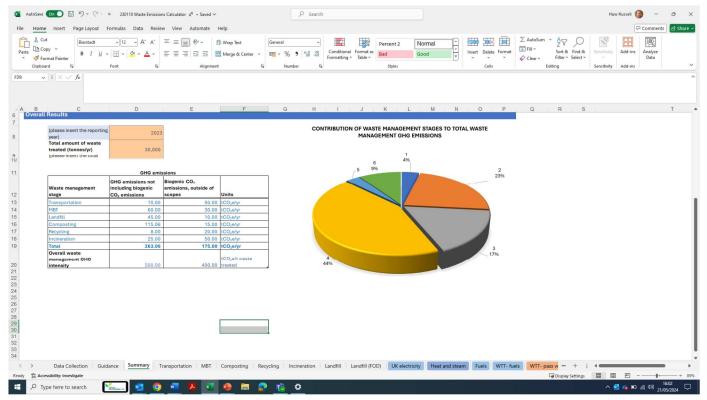


Each tab corresponds to a specific method of waste treatment





Summary tab





ANAEROBIC DIGESTION



Expansion chamber

Anaerobic digestion



Carbon emissions factors – June/July 2024





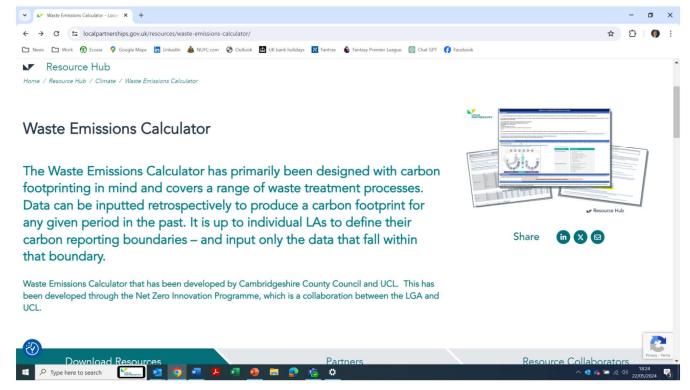
Updated version – June/July 2024



https://localpartnerships.gov.uk/resources/ waste-emissions-calculator/



Overview of toolkit tabs - demo













QUESTIONS AND DISCUSSION

Cllr Andrew Cooper, Group Leader – Green Group, Kirklees Council

23/05/2024

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