

# Business Certification

**Bowmer + Kirkland**

*YEAR 16*

01 September 2022 to 31 August 2023

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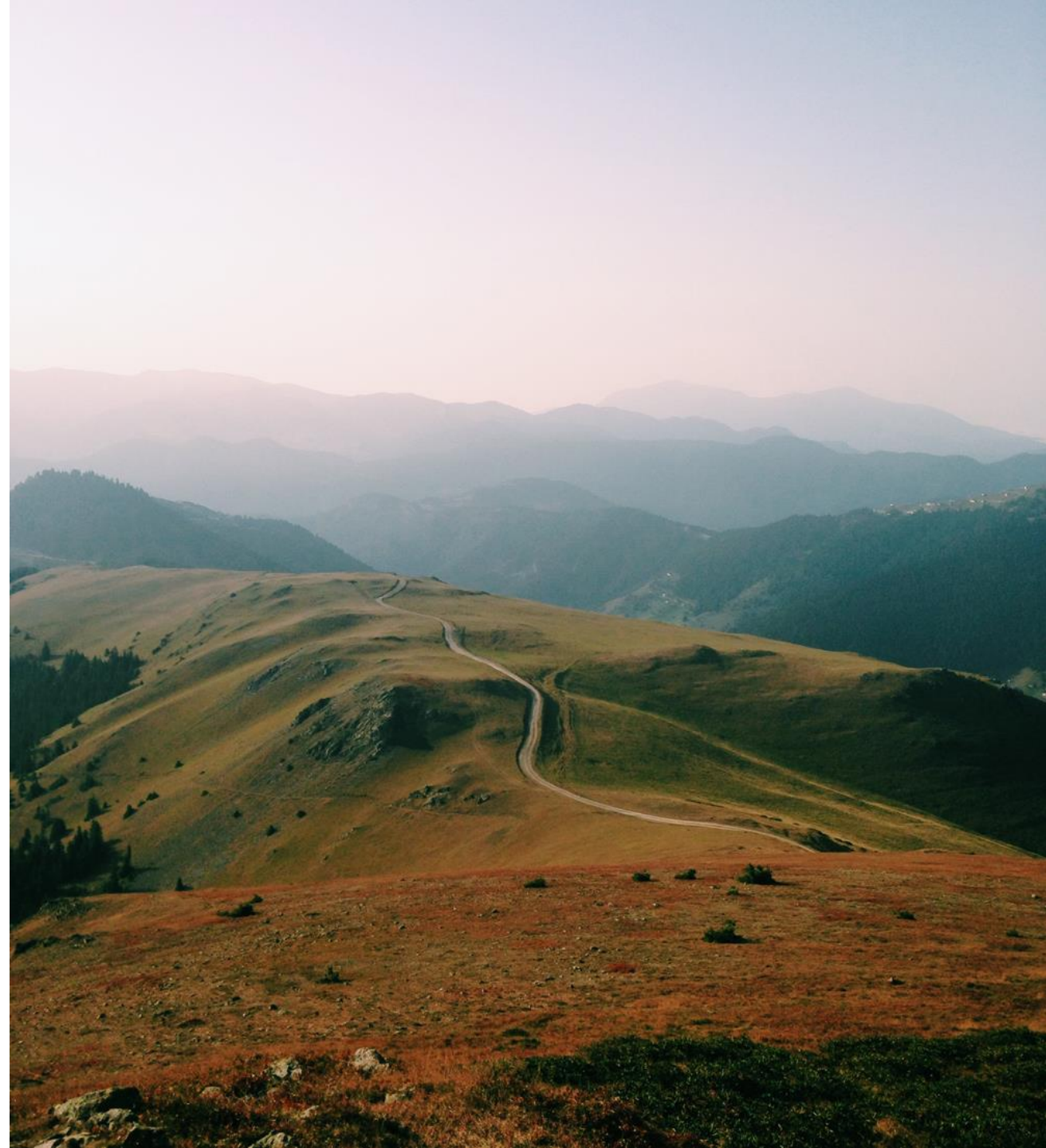
Measure



Engage



Communicate





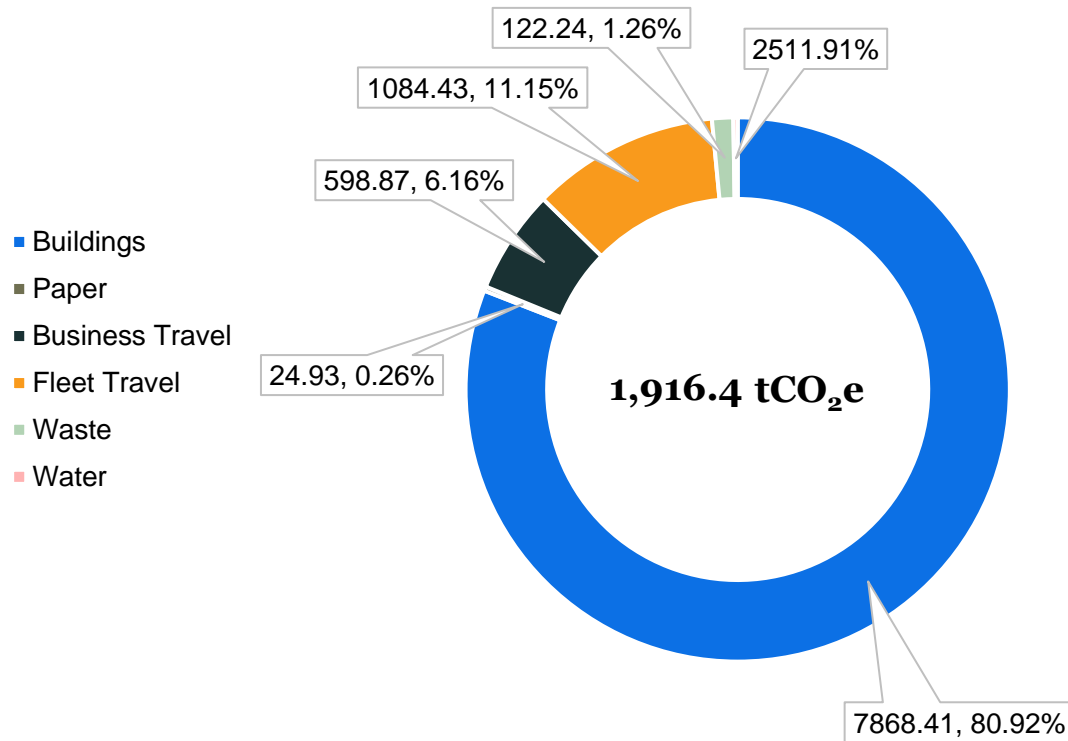
# Reporting for construction industry members: Certificate and report for main operations and additional reporting for construction sites.

This report contains two sections – the first showing the carbon footprint of your offices, and the second showing the carbon footprint of your construction sites. Due to the nature of construction sites opening/closing variably over reporting periods, the boundary and emission sources of these sites are constantly changing and thus it is impossible to have a consistent like-for-like comparison for the construction sites. Therefore, the sites are measured and reported on for Bowmer & Kirkland separately and the reductions are tracked through net-zero governance reporting. The yearly 2.5% reduction and subsequent Planet Mark certification are calculated primarily from the main office operations. Each of the specific pages of the report is labelled as either office sites or construction sites, and if unlabeled then the page applies to both office & construction sites.

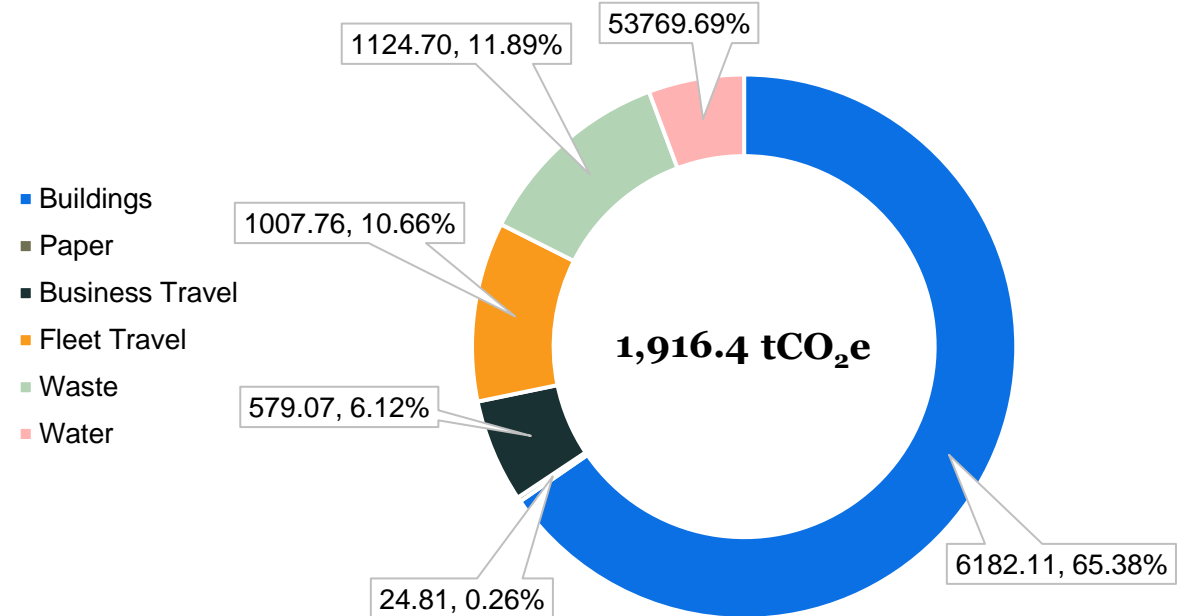
# Total carbon footprint Yearly Comparison

## Office & Construction Sites

Carbon footprint by emission source for year ending 2022, tCO<sub>2</sub>e



Carbon footprint by emission source for year ending 2023, tCO<sub>2</sub>e



# Total carbon footprint Yearly Comparison

## Office & Construction Sites

### YE2022

Source Category	tCO <sub>2</sub> e	%
Buildings	7868.41	80.9%
Paper	24.93	0.3%
Business Travel	598.87	6.2%
Fleet Travel	1084.43	11.2%
Waste	122.24	1.3%
Water	25.12	0.3%
<b>Total</b>	<b>9724.00</b>	<b>100%</b>

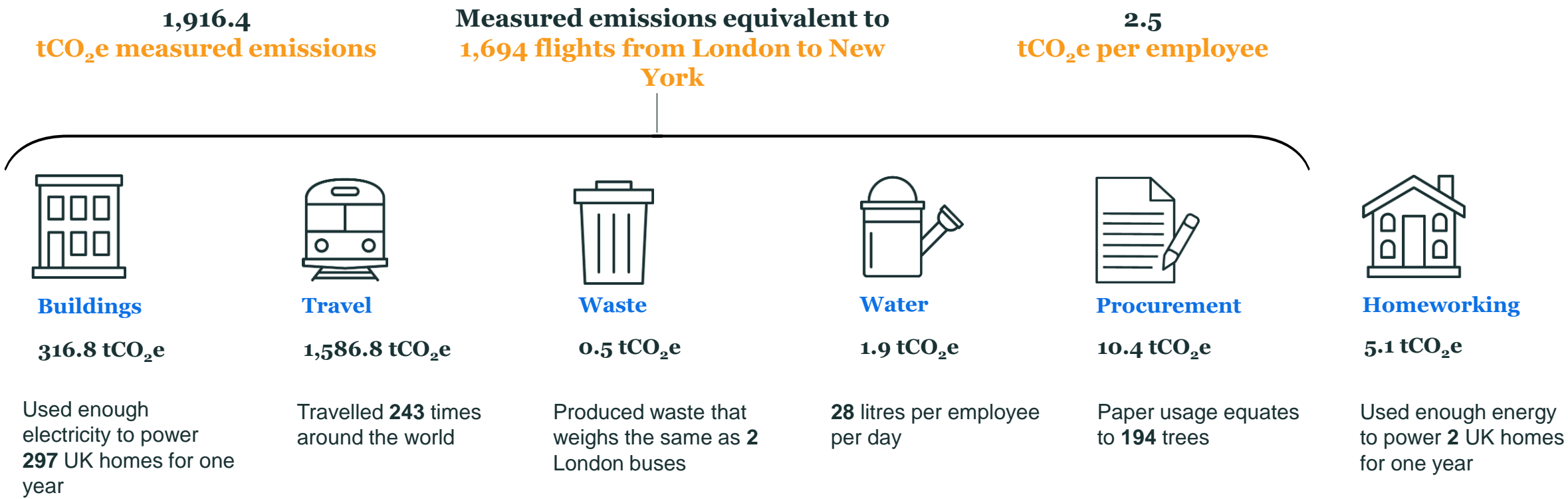
### YE2023

Source Category	tCO <sub>2</sub> e	%
Buildings	6182.11	65.4%
Paper	24.81	0.3%
Business Travel	579.07	6.1%
Fleet Travel	1007.76	10.7%
Waste	1124.70	11.9%
Water	537.70	5.7%
<b>Total</b>	<b>9456.14</b>	<b>100%</b>



# Measured carbon EMISSIONS

## Office Sites





# Step one.

## MEASURE





# Measured carbon footprint.

## Location *BASED*

### Office Sites

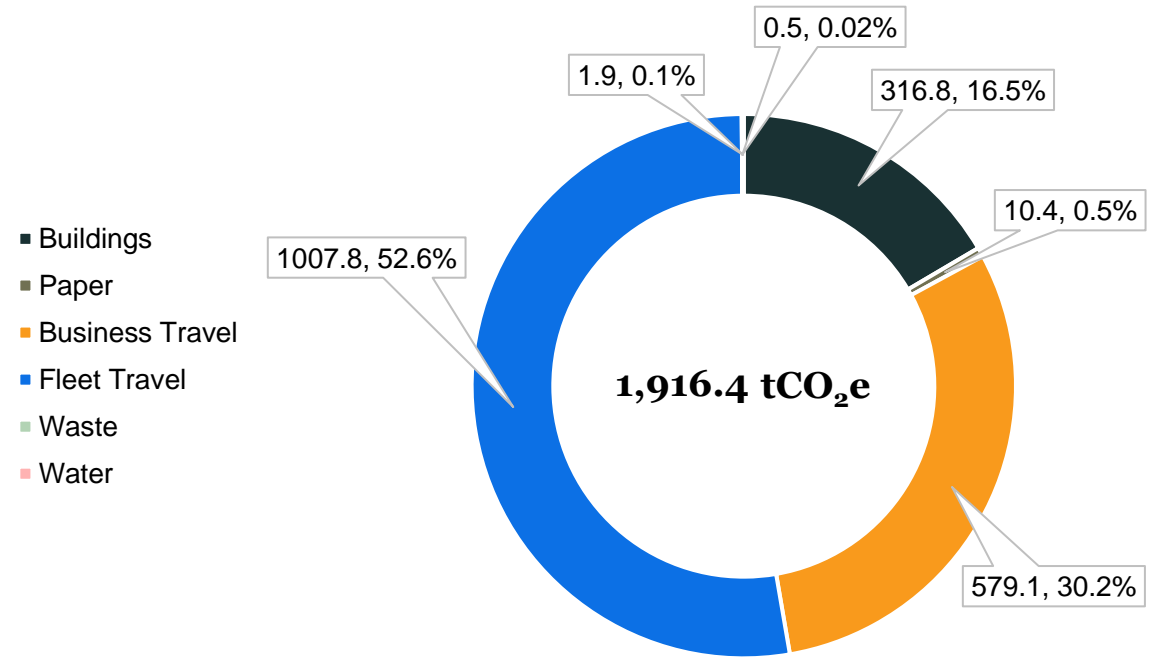
**Reporting year:**  
01 September 2022 to 31 August 2023

**Reporting Boundary:**  
Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

**Emissions measured:**  
Electricity, T&D Losses, On-Site Renewables, Natural Gas, Water, Fleet, Business Travel, Waste, Paper, Commuting, Diesel, HVO, Homeworking (not included in total footprint)

**Highlights:**  
Carbon footprint (tCO<sub>2</sub>e): **1,916.4**  
Per employee (tCO<sub>2</sub>e): **2.5**  
Next reduction target: **5%**  
Data quality score: **0 out of 20**

Carbon footprint by emission source for year ending 2023, tCO<sub>2</sub>e



Note: Your carbon footprint is reported two ways; one is using the location based method of calculating Scope 2 electricity emissions and the other the market based method. A location-based method reflects the average emissions intensity of grids on which energy consumption occurs (using mostly grid-average emission factor data). A market-based method reflects emissions from electricity that companies have purposefully chosen (or their lack of choice).



# Measured carbon footprint.

Market *BASED*

## Office Sites

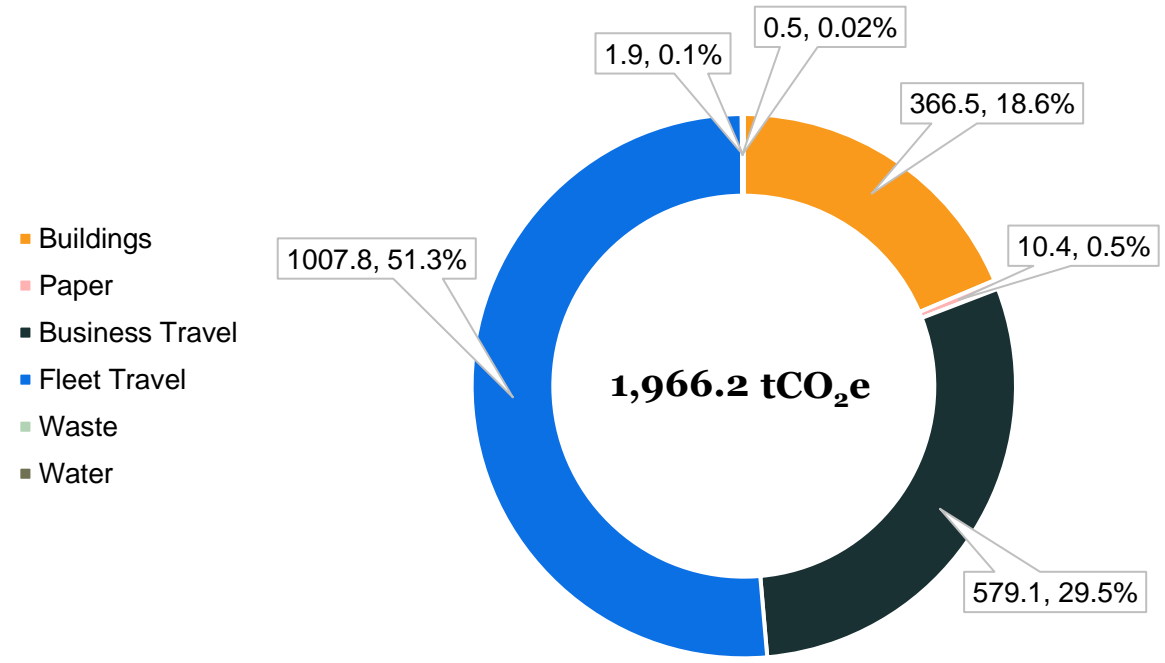
**Reporting year:**  
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**Emissions measured:**  
Electricity, T&D Losses, On-Site Renewables, Natural Gas, Water, Fleet, Business Travel, Waste, Paper, Commuting, Diesel, HVO, Homeworking (not included in total footprint)

**Highlights:**  
Carbon footprint (tCO<sub>2</sub>e): **1,966.2**  
Per employee (tCO<sub>2</sub>e): **2.5**  
Next reduction target: **5%**  
Data quality score: **0 out of 20**

Carbon footprint by emission source for year ending 2023, tCO<sub>2</sub>e



Note: Your carbon footprint is reported two ways; one is using the location based method of calculating Scope 2 electricity emissions and the other the market based method. A location-based method reflects the average emissions intensity of grids on which energy consumption occurs (using mostly grid-average emission factor data). A market-based method reflects emissions from electricity that companies have purposefully chosen (or their lack of choice).





# Measured carbon footprint.

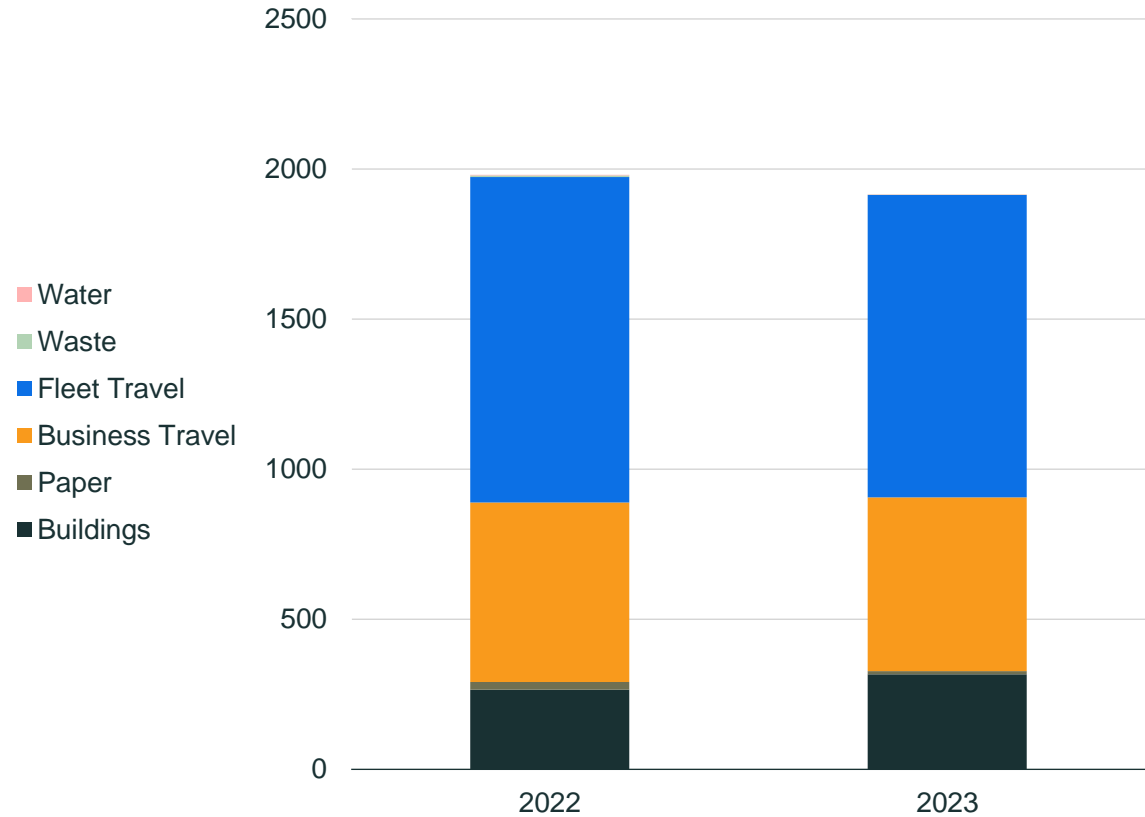
## Yearly *COMPARISON*

### Office Sites

Source Category	2022	2023
Buildings	265.4	316.8
Paper	24.9	10.4
Business Travel	598.9	579.1
Fleet Travel	1,084.4	1,007.8
Waste	5.1	0.5
Water	1.8	1.9
Total	1,980.6	1,916.4

All rows and tables are rounded to one decimal place. This may lead to slight discrepancies in totals within the report.

Carbon footprint by emission source for year ending 2022 and 2023, tCO<sub>2</sub>e





# Carbon footprint.

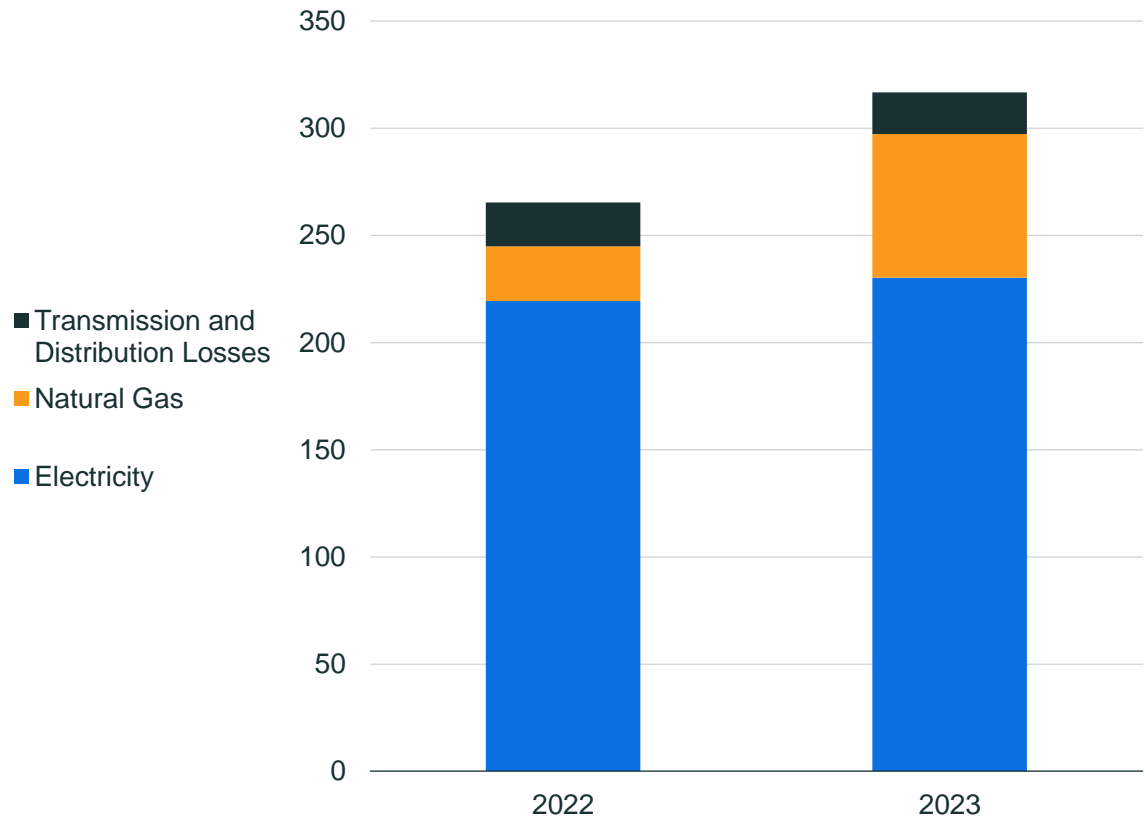
BUILDINGS

## Office Sites

Emissions deriving from the use of office space increased by 19.74%, primarily driven by an increase in emissions from Natural Gas, which rose approx. 162%.

Buildings	2022	2023
Electricity	219.3	230.2
Natural Gas	25.6	67.1
Transmission and Distribution Losses	20.5	19.5
Total	265.4	316.8

Buildings emissions for year ending 2022 and 2023, tCO<sub>2</sub>e



All rows and tables are rounded to one decimal place. This may lead to slight discrepancies in totals within the report.



# Carbon footprint.

## Business TRAVEL

### Office Sites

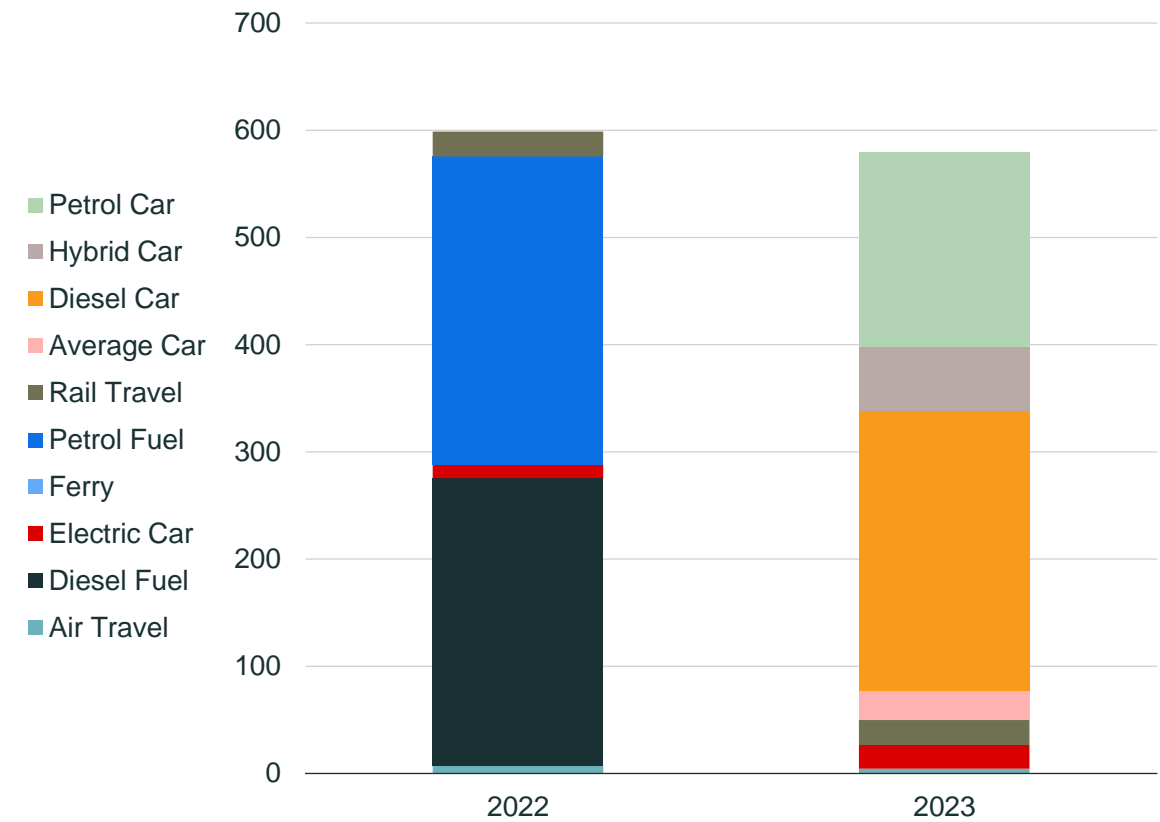
Emissions deriving from the use of travel methods outside the boundary of the organisation decreased by 3.31%, despite having increased oversight of emissions sources.

Business Travel	2022	2023
Air Travel	7.8	4.6
Diesel Fuel	267.6	-
Electric Car	12.4	22.0
Ferry	0.01	0.01
Petrol Fuel	287.9	-
Rail Travel	23.1	23.2
Average Car	-	27.6
Diesel Car	-	260.4
Hybrid Car	-	59.8
Petrol Car	-	181.4
Total	598.9	579.1



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Business travel emissions for year ending 2022 and 2023, tCO<sub>2</sub>e





# Carbon footprint.

## Fleet TRAVEL

### Office Sites

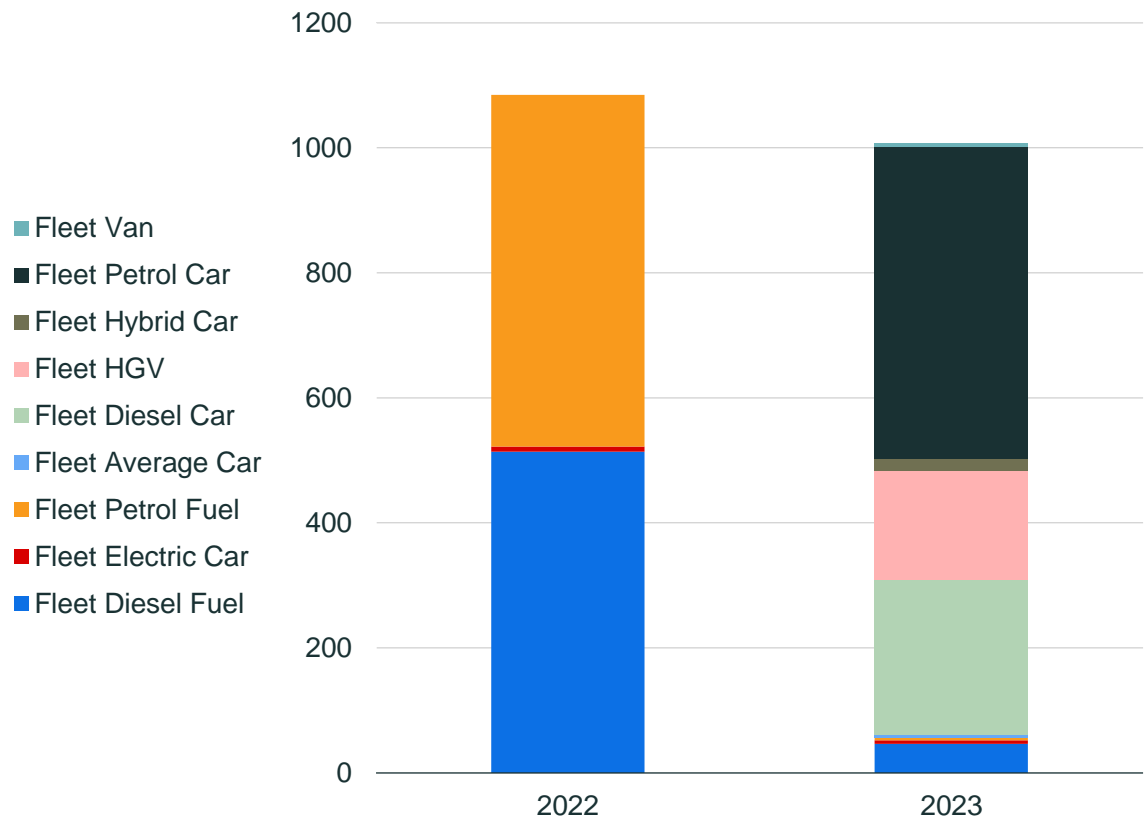
Emissions deriving from the use of company vehicles decreased by 7.06%. This is driven by a reduction in Diesel fuel of approx. 90%. Bowmer and Kirkland is also reporting other sources of emissions this year such as HGV and Petrol amongst others as seen in the table below.

Fleet Travel	2022	2023
Fleet Diesel Fuel	514.1	46.3
Fleet Electric Car	7.9	6.1
Fleet Petrol Fuel	562.4	3.8
Fleet Average Car	-	4.5
Fleet Diesel Car	-	248.3
Fleet HGV	-	173.4
Fleet Hybrid Car	-	20.5
Fleet Petrol Car	-	498.8
Fleet Van	-	6.0
Total	1,084.4	1,007.8



All rows and tables are rounded to one decimal place. This may lead to slight discrepancies in totals within the report.

Fleet travel emissions for year ending 2022 and 2023, tCO<sub>2</sub>e





# Carbon footprint.

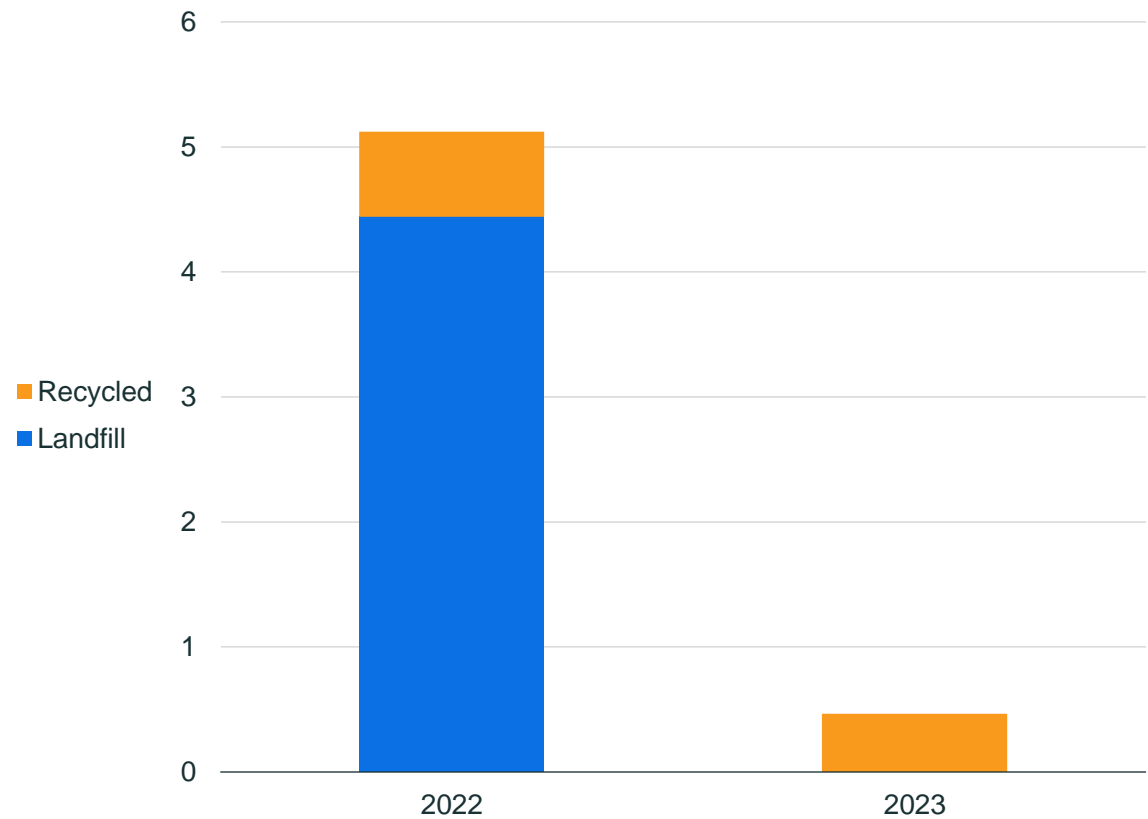
WASTE


## Office Sites

Office sites waste emissions have considerably decreased by 91% compared to the previous year.

Waste	2022	2023
Landfill	4.4	-
Recycled	0.7	0.5
Total	5.1	0.5

Waste emissions for year ending 2022 and 2023, tCO<sub>2</sub>e



 All rows and tables are rounded to one decimal place. This may lead to slight discrepancies in totals within the report.



# Carbon footprint.

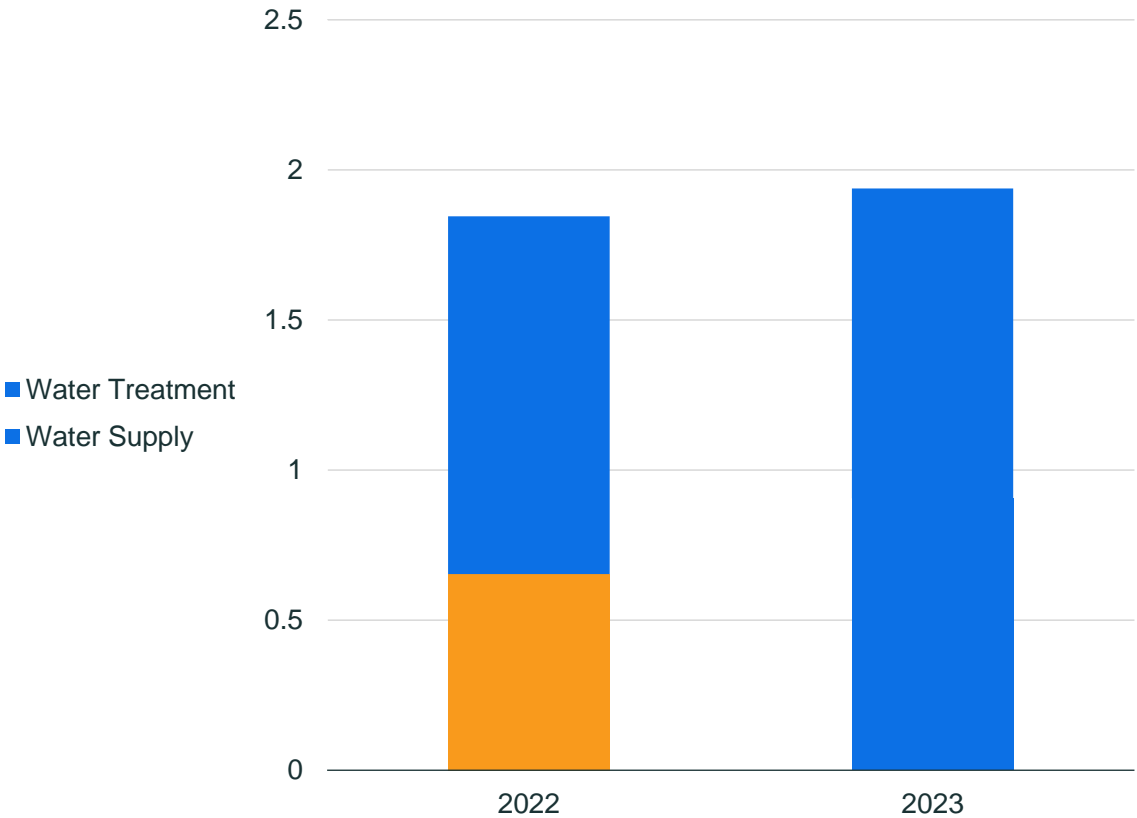
WATER

## Office Sites

Office sites water emissions have increased by 5% compared to the previous year

Water	2022	2023
Water Supply	0.7	0.9
Water Treatment	1.2	1.0
Total	1.8	1.9

Water emissions for year ending 2022 and 2023, tCO<sub>2</sub>e



All rows and tables are rounded to one decimal place. This may lead to slight discrepancies in totals within the report.



# Carbon footprint.

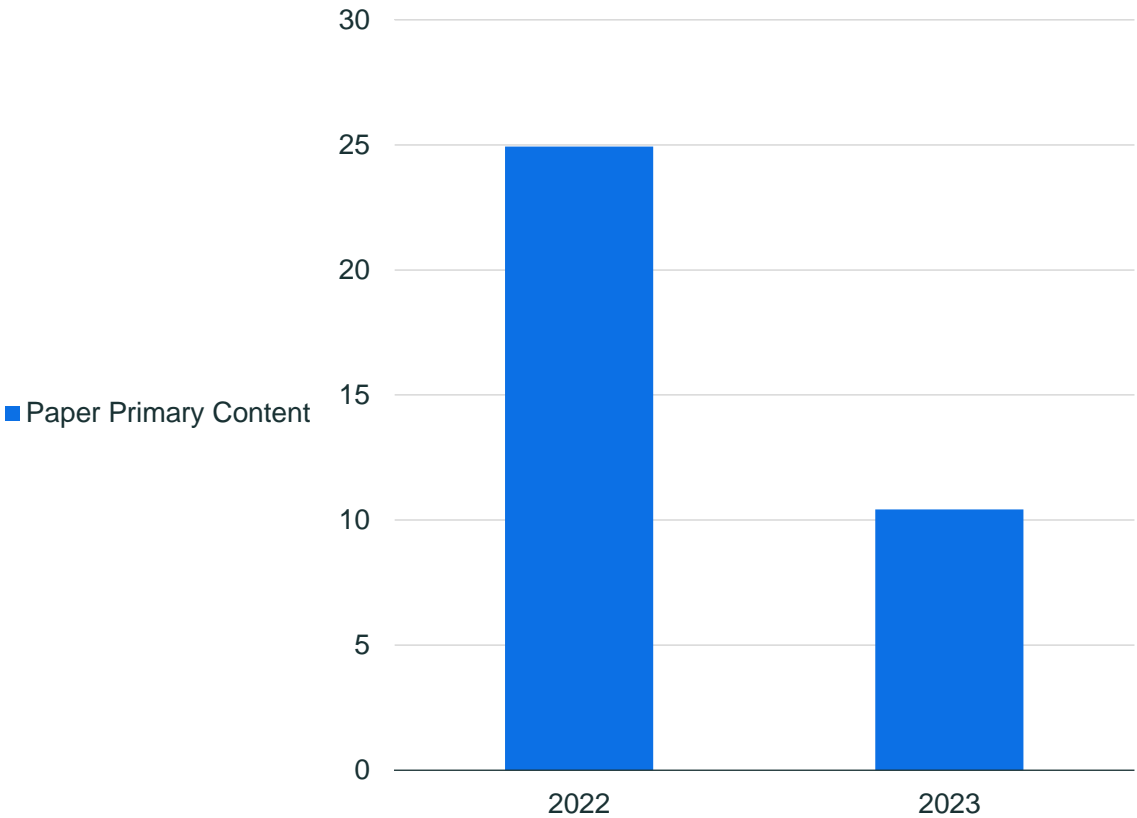
## PROCUREMENT

### Office Sites

Office sites paper emissions have decreased by 58.1% compared to the previous year

Paper	2022	2023
Paper Primary Content	24.9	10.4
Total	24.9	10.4

Procurement emissions for year ending 2022 and 2023, tCO<sub>2</sub>e



All rows and tables are rounded to one decimal place. This may lead to slight discrepancies in totals within the report.



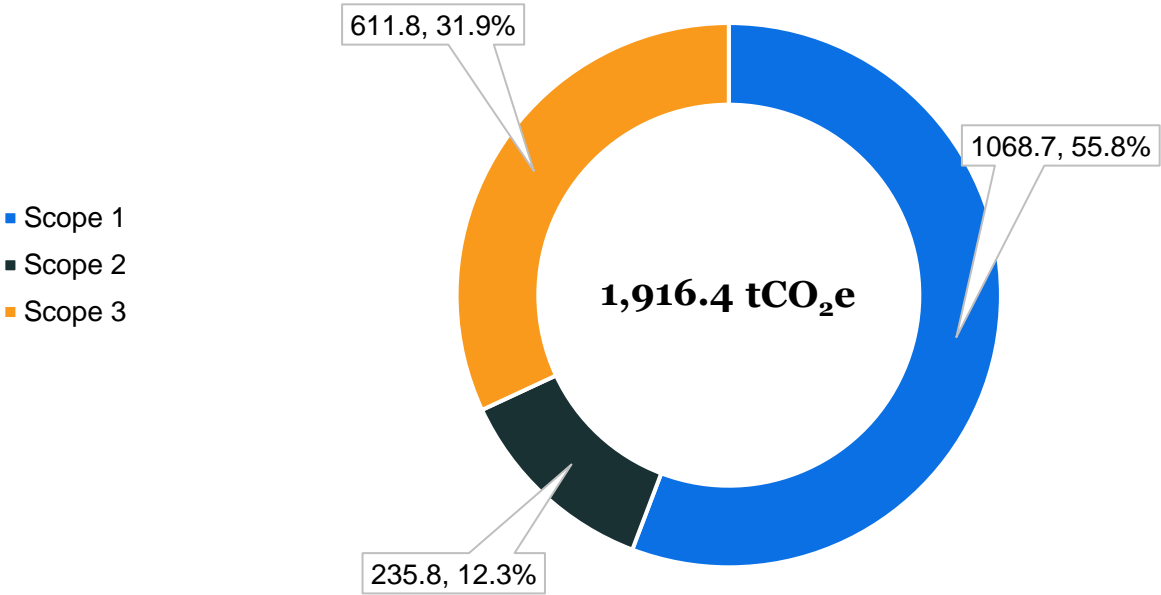
# Measured carbon footprint.

BY SCOPE

## Office Sites

Scope	tCO <sub>2</sub> e	%
Scope 1	1,068.7	55.8
Scope 2	235.8	12.3
Scope 3	611.8	31.9
Total	1,916.4	100.0

Measured carbon emissions by scope for year ending 2023, tCO<sub>2</sub>e



All rows and tables are rounded to one decimal place. This may lead to slight discrepancies in totals within the report.





# Carbon footprint.

HOME OFFICE

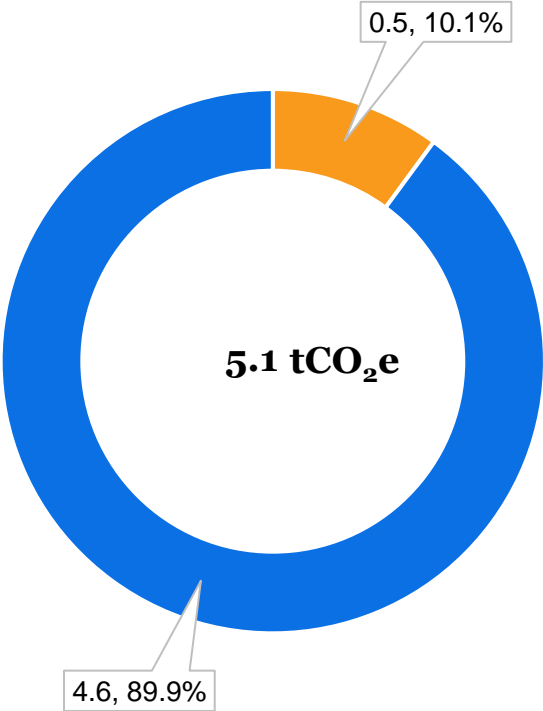
## Office Sites

Due to the uncertainties surrounding Home Office emissions these figures are provided for information only in order to give an indication of the scale of the impact associated with home office energy consumption. They have not been included in your carbon footprint total.

Homeworking	tCO <sub>2</sub> e	%
Electricity	0.5	10.1
Natural Gas	4.6	89.9
Total	5.1	100.0

Homeworking emissions for year ending 2023, tCO<sub>2</sub>e

- Electricity
- Natural Gas



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# Carbon footprint.

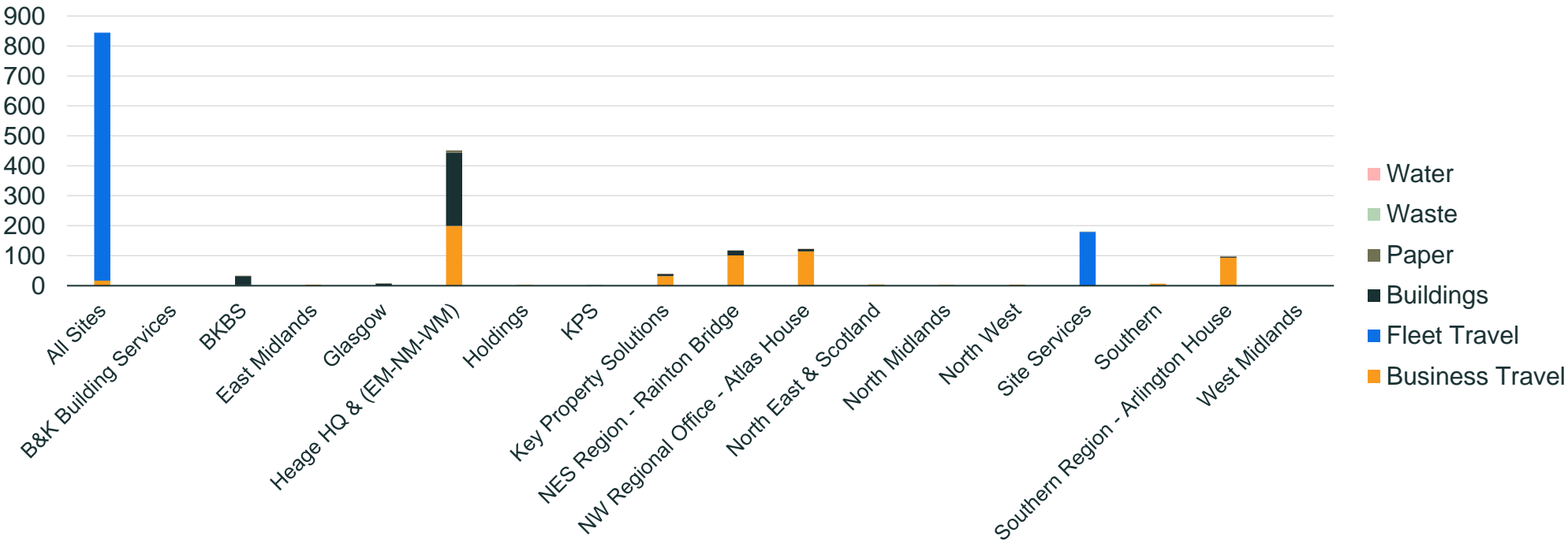
BY LOCATION

## Office Sites

Carbon footprint for each location

tCO<sub>2</sub>e

**Note:**  
'All Sites' includes business travel and fleet since the data submitted was cumulative for the whole business.





# Benchmarking Percentage reduction.

## Office Sites

% reduction in absolute carbon by Planet Mark Members (Year 2021)\*

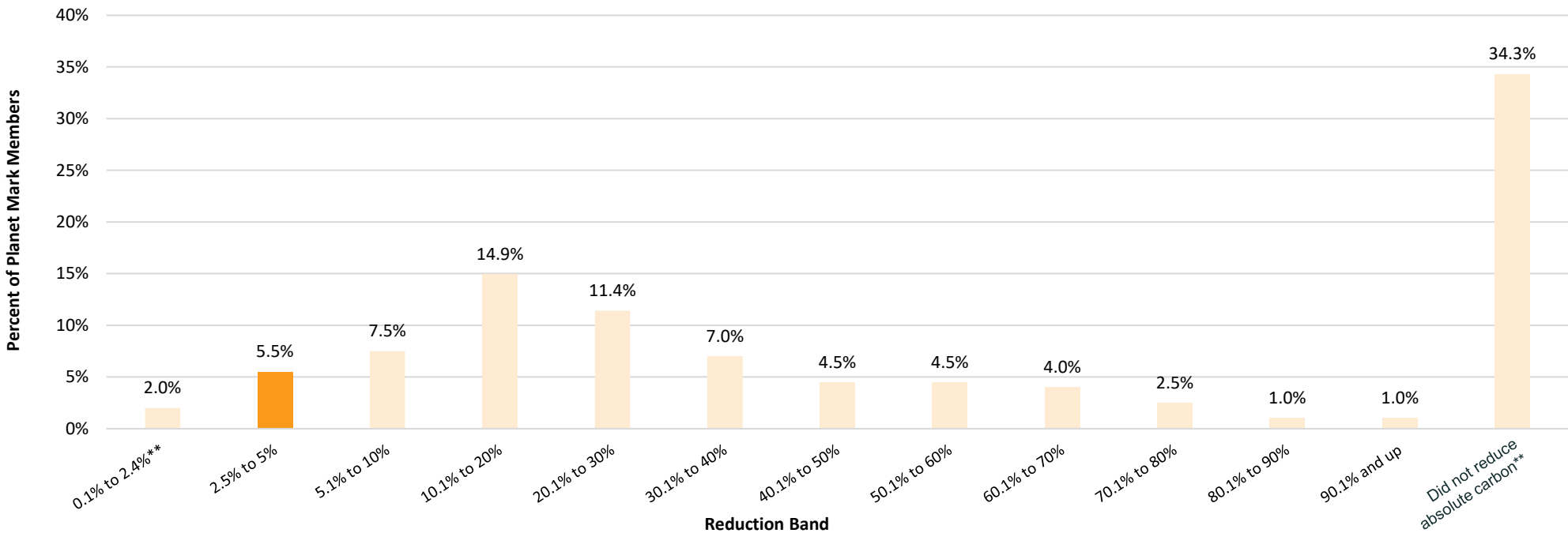
Absolute carbon  
reduction achieved:

**-3.2%**



Your reduction band is  
highlighted on the graph.

Bowmer + Kirkland reduced its measured carbon by 3.2% from the previous year. 5.5% of Planet Mark Members also achieved a 2.5% to 5% reduction in their measured carbon.



\*The benchmarking data above is based on YE2021 reporting period and a sample of 352 Members. It excludes Members in their first year of carbon measurement as historic comparison is not possible.

\*\*Certified using another qualifying metric.



# Benchmarking Percentage reduction.

## Office Sites

% reduction in carbon per employee by Planet Mark Members (Year 2021)\*

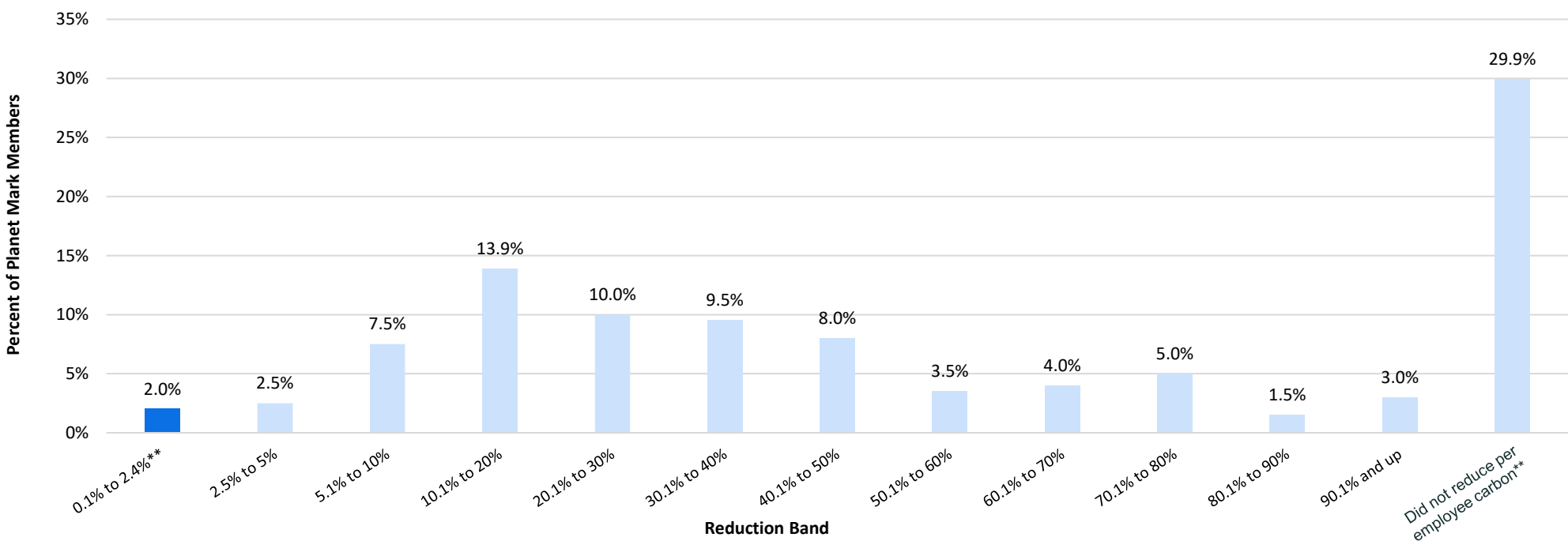
Per employee carbon reduction achieved:

**-0.2%**



Your reduction band is highlighted on the graph.

Bowmer + Kirkland reduced its measured carbon per employee by 0.2% from the previous year. 2.0% of Planet Mark Members also achieved a 0% to 2.4% reduction in their measured carbon per employee.

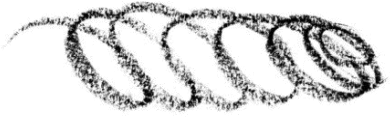


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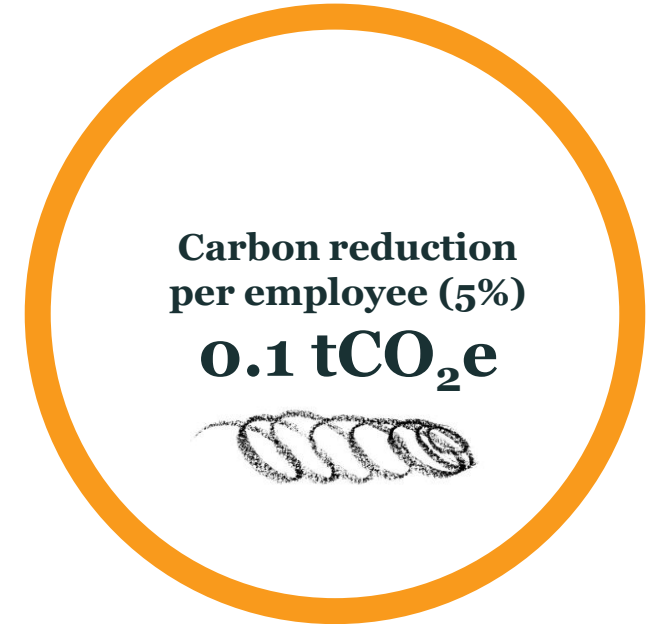
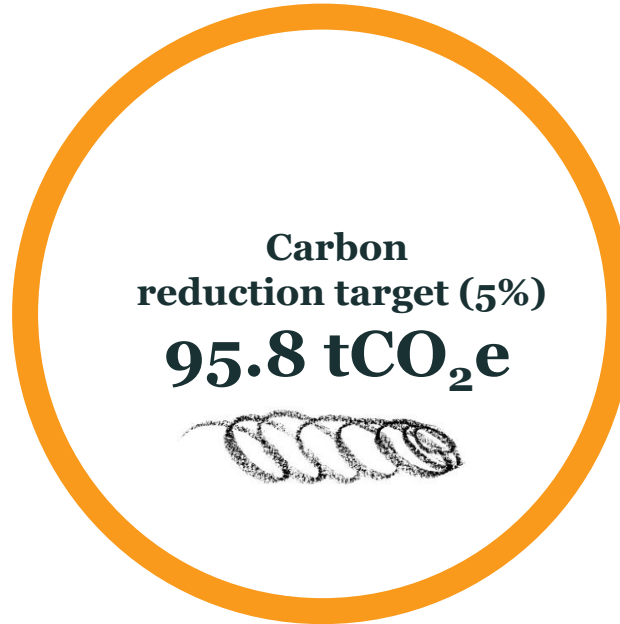
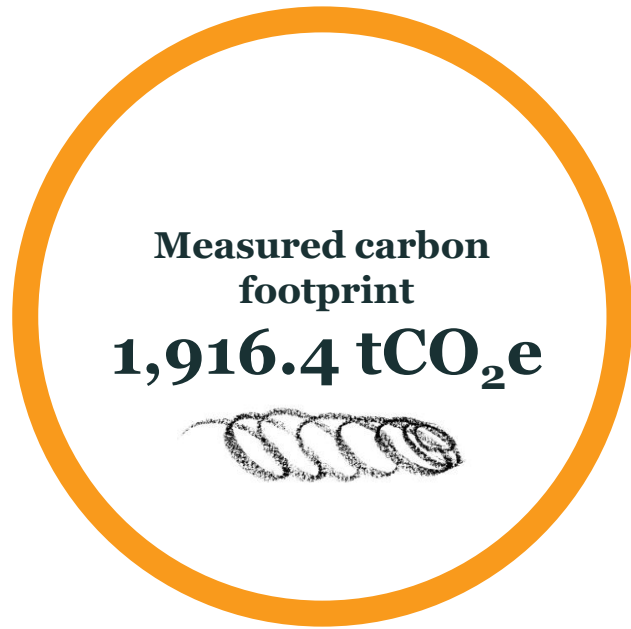
\*\*Certified using another qualifying metric.



## Looking ahead. Targets for next year.



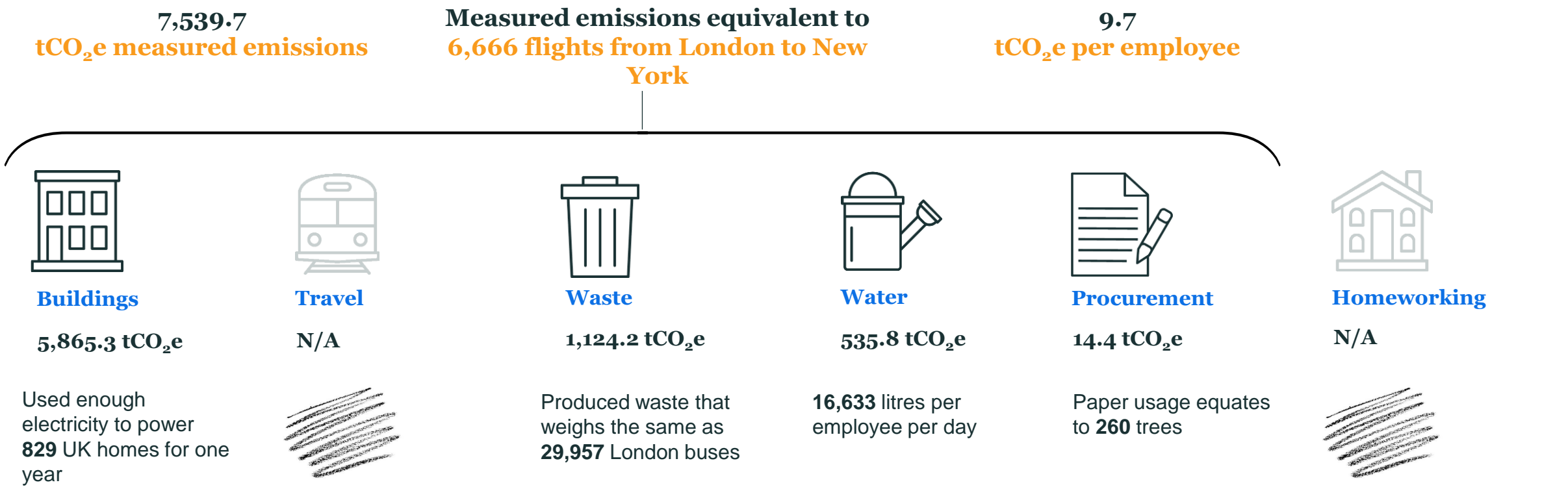
### Office Sites





# Measured carbon EMISSIONS

## Construction Sites





# Measured carbon footprint.

## Location *BASED*

### Construction Sites

**Reporting year:**

01 September 2022 to 31 August 2023

**Reporting Boundary:**

Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

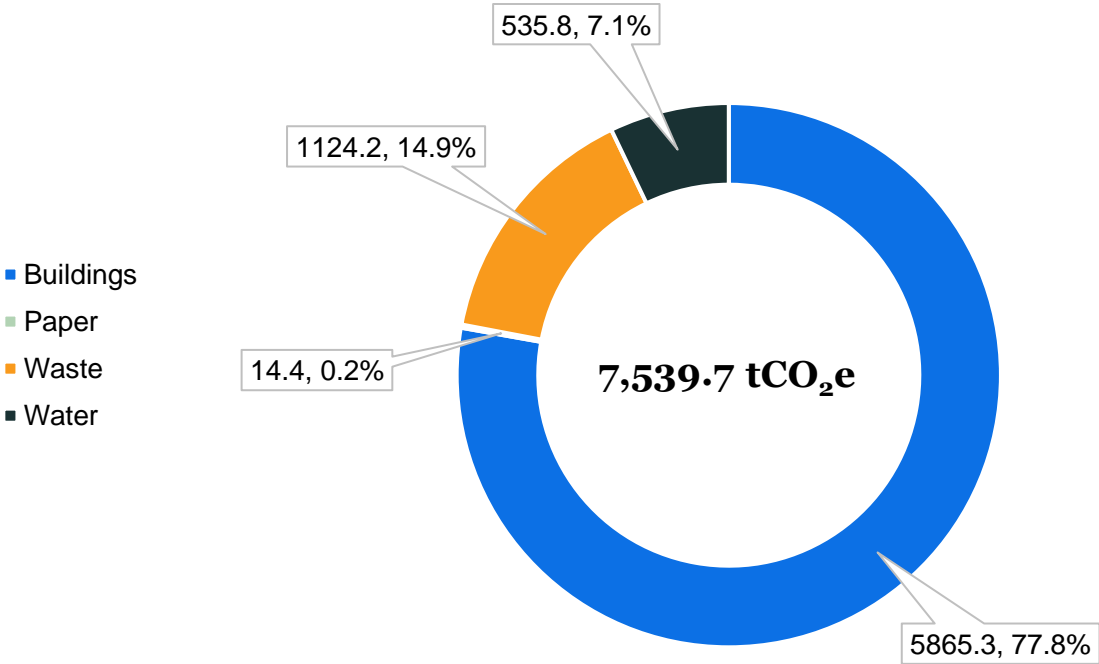
**Emissions measured:**

Electricity, T&D Losses, On-Site Renewables, Natural Gas, Water, Fleet, Business Travel, Waste, Paper, Commuting, Diesel, HVO, Homeworking (not included in total footprint)

**Highlights:**

Carbon footprint (tCO<sub>2</sub>e): **7,539.7**  
Per employee (tCO<sub>2</sub>e): **9.7**  
Next reduction target: **5%**  
Data quality score: **0 out of 20**

Carbon footprint by emission source for year ending 2023, tCO<sub>2</sub>e



Note: Your carbon footprint is reported two ways; one is using the location based method of calculating Scope 2 electricity emissions and the other the market based method. A location-based method reflects the average emissions intensity of grids on which energy consumption occurs (using mostly grid-average emission factor data). A market-based method reflects emissions from electricity that companies have purposefully chosen (or their lack of choice).



# Measured carbon footprint.

Market *BASED*

## Construction Sites

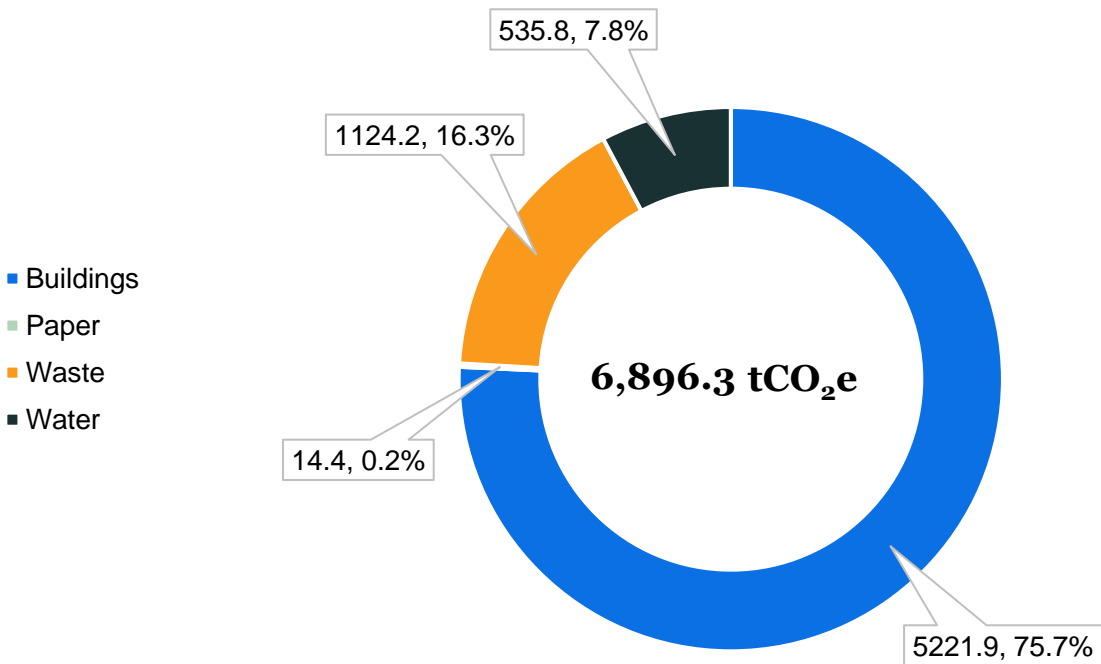
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**Emissions measured:**  
Electricity, T&D Losses, On-Site Renewables, Natural Gas, Water, Fleet, Business Travel, Waste, Paper, Commuting, Diesel, HVO, Homeworking (not included in total footprint)

**Highlights:**  
Carbon footprint (tCO<sub>2</sub>e): **6,896.3**  
Per employee (tCO<sub>2</sub>e): **8.8**  
Next reduction target: **5%**  
Data quality score: **0 out of 20**

Carbon footprint by emission source for year ending 2023, tCO<sub>2</sub>e



Note: Your carbon footprint is reported two ways; one is using the location based method of calculating Scope 2 electricity emissions and the other the market based method. A location-based method reflects the average emissions intensity of grids on which energy consumption occurs (using mostly grid-average emission factor data). A market-based method reflects emissions from electricity that companies have purposefully chosen (or their lack of choice).





# Measured carbon footprint.

## Yearly *COMPARISON*

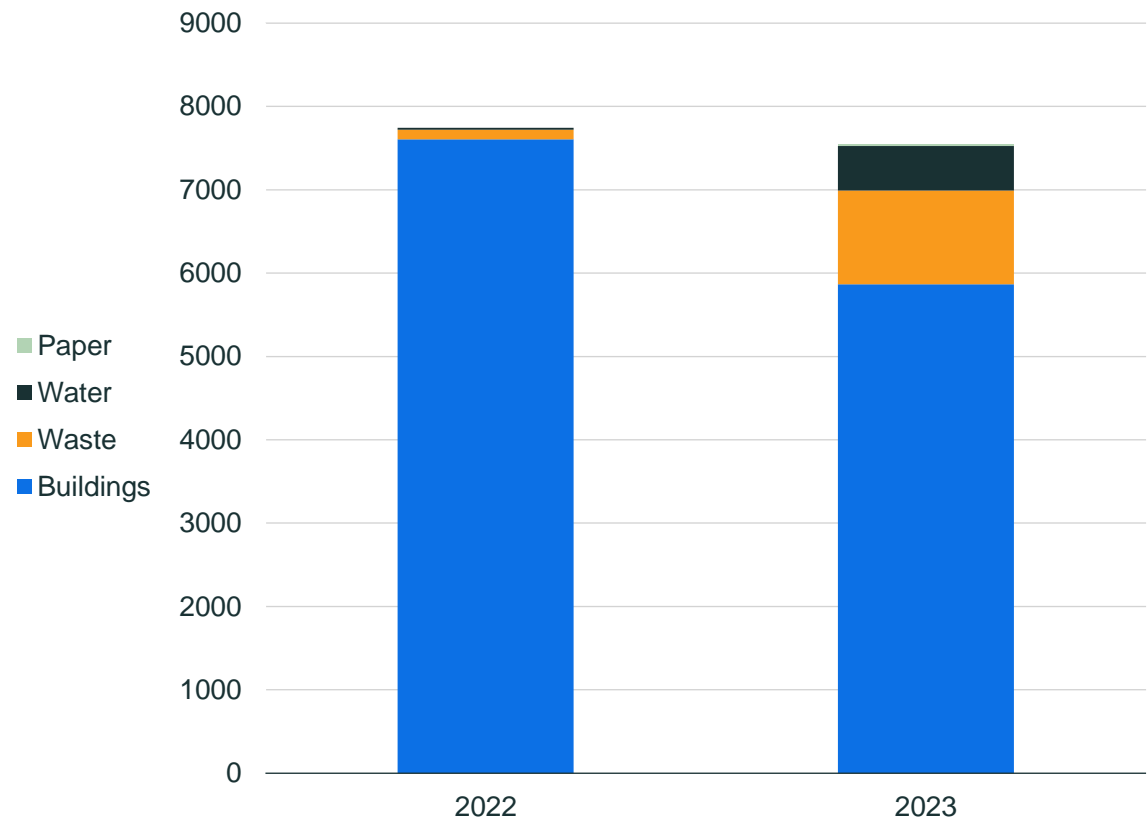
### Construction Sites

Construction sites total carbon emissions have decreased by 2.6% compared to the previous year

Source Category	2022	2023
Buildings	7,603.0	5,865.3
Waste	117.1	1,124.2
Water	23.3	535.8
Paper	-	14.4
Total	7,743.4	7,539.7

All rows and tables are rounded to one decimal place. This may lead to slight discrepancies in totals within the report.

Carbon footprint by emission source for year ending 2022 and 2023, tCO<sub>2</sub>e





# Carbon footprint.

BUILDINGS

## Construction Sites

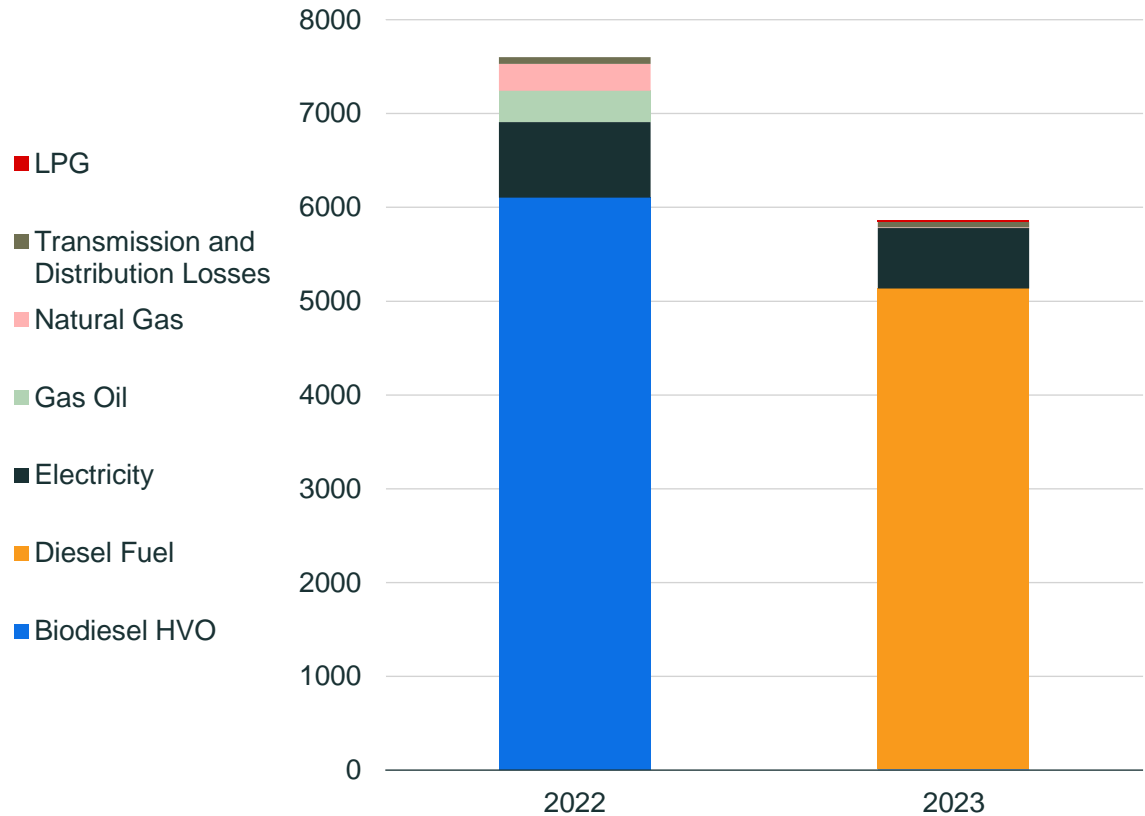
Construction sites building emissions have decreased by 22.8% compared to the previous year

Buildings	2022	2023
Biodiesel HVO	1.4	6.5
Diesel Fuel	6,102.9	5,129.1
Electricity	804.4	643.4
Gas Oil	336.5	-
Natural Gas	284.3	8.9
Transmission and Distribution Losses	73.6	55.7
LPG	-	21.7
Total	7,603.0	5,865.3



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Buildings emissions for year ending 2022 and 2023, tCO<sub>2</sub>e





# Carbon footprint.

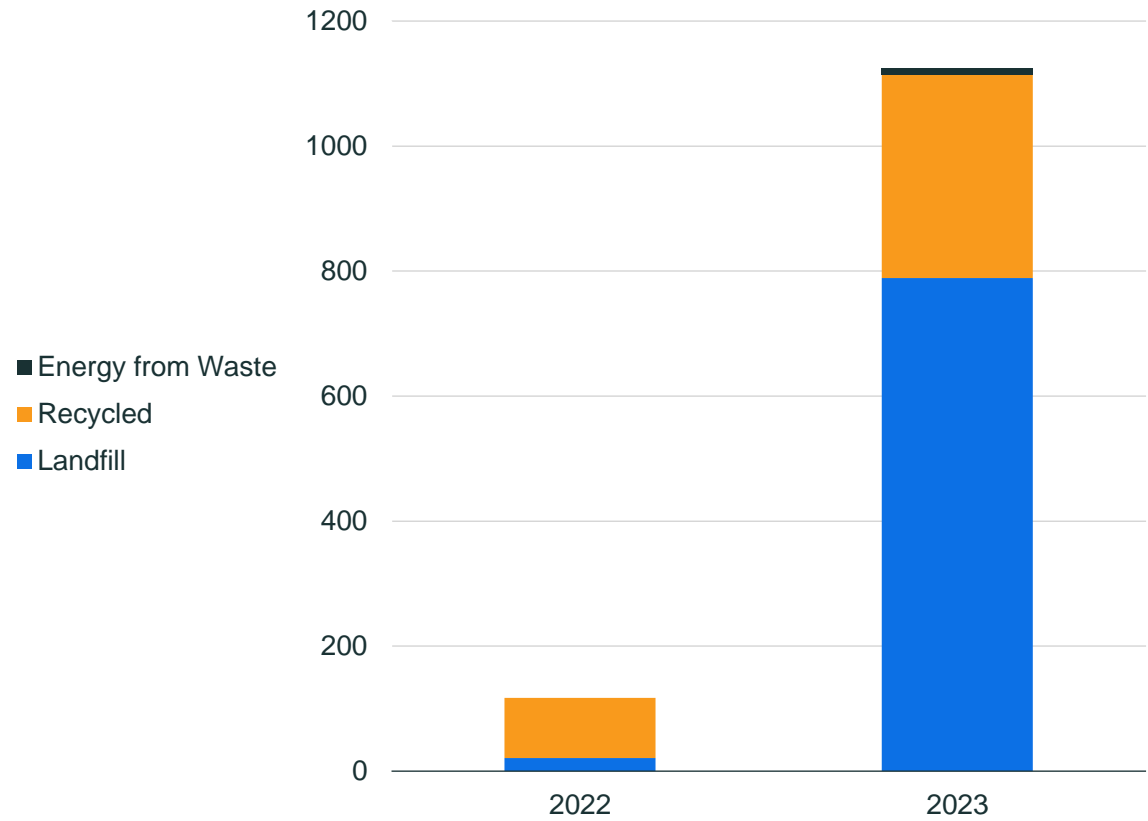
WASTE

## Construction Sites

Construction sites waste emissions have increased significantly by 859% compared to the previous year

Waste	2022	2023
Landfill	21.1	789.0
Recycled	96.1	325.6
Energy from Waste	-	9.6
Total	117.1	1,124.2

Waste emissions for year ending 2022 and 2023, tCO<sub>2</sub>e



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# Carbon footprint.

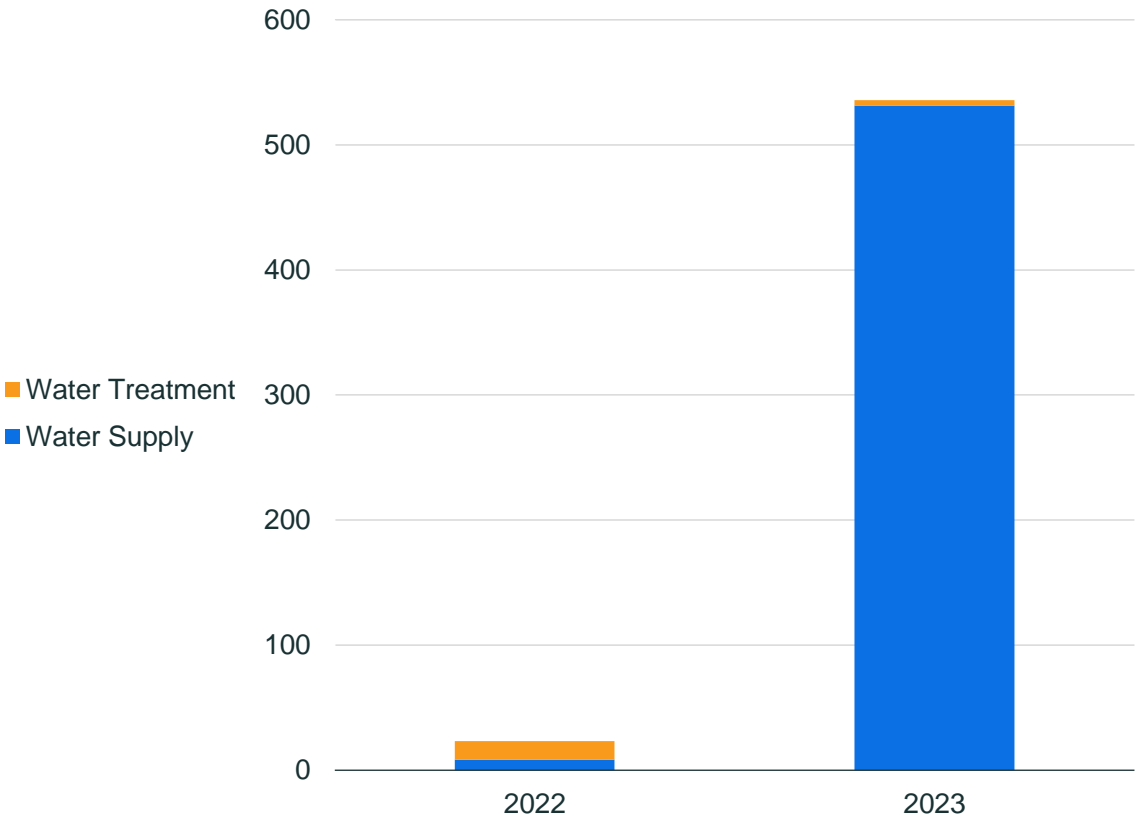
WATER

## Construction Sites

Construction sites water emissions have increased this year by 2200% compared to the previous year. Despite what may appear an alarming increase, water only represents 7.1% of the total construction site footprint.

Water	2022	2023
Water Supply	8.2	531.5
Water Treatment	15.0	4.3
Total	23.3	535.8

Water emissions for year ending 2022 and 2023, tCO<sub>2</sub>e



All rows and tables are rounded to one decimal place. This may lead to slight discrepancies in totals within the report.



# Carbon footprint.

## PROCUREMENT

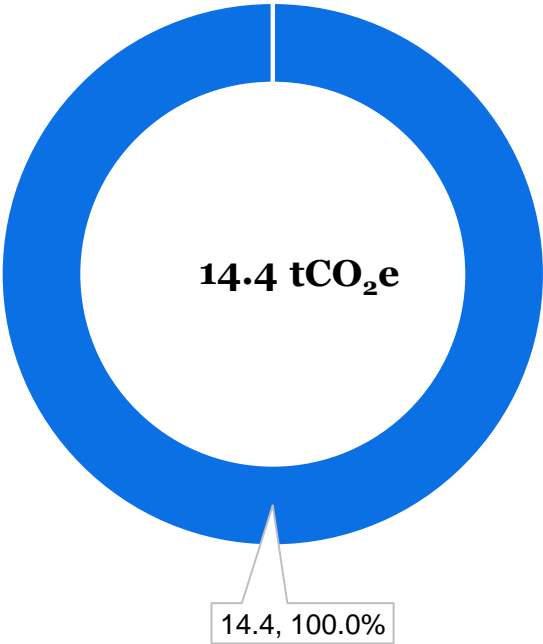
### Construction Sites

Construction sites procurement has increased this year from being paperless in the previous year. Despite this increase, procurement remains an extremely low source of emissions, accounting for just 0.2% of the construction sites footprint.

Paper	tCO <sub>2</sub> e	%
Paper Primary Content	14.4	100.0
Total	14.4	100.0

Procurement emissions for year ending 2023, tCO<sub>2</sub>e

■ Paper Primary Content



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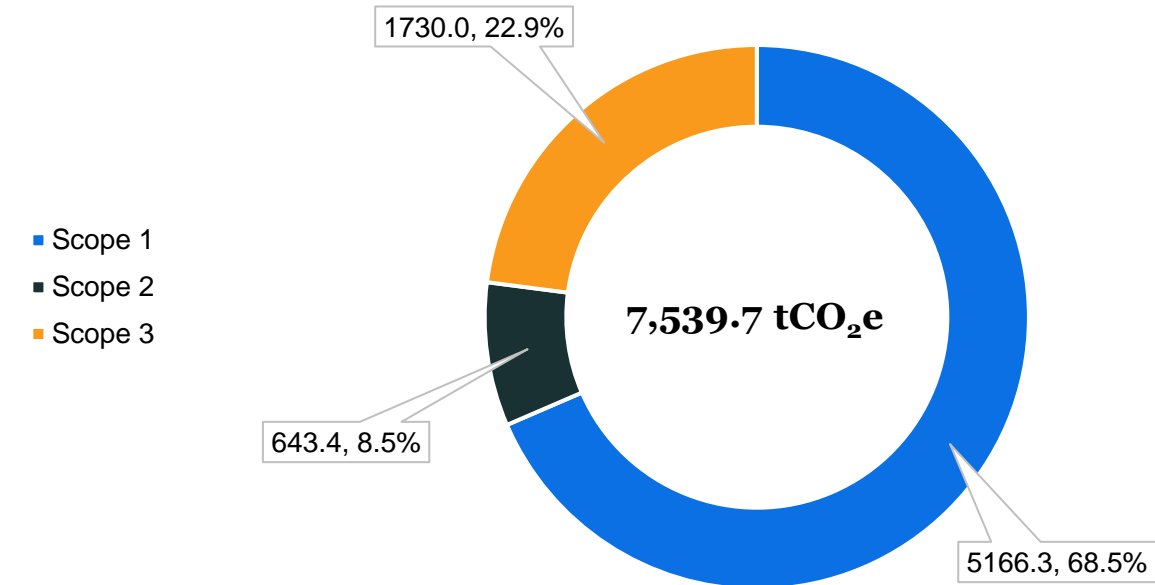
# Measured carbon footprint.

BY SCOPE

## Construction Sites

Scope	tCO <sub>2</sub> e	%
Scope 1	5,166.3	68.5
Scope 2	643.4	8.5
Scope 3	1,730.0	22.9
Total	7,539.7	100.0

Measured carbon emissions by scope for year ending 2023, tCO<sub>2</sub>e



All rows and tables are rounded to one decimal place. This may lead to slight discrepancies in totals within the report.



# Benchmarking Percentage reduction.

## Construction Sites

% reduction in absolute carbon by Planet Mark Members (Year 2021)\*

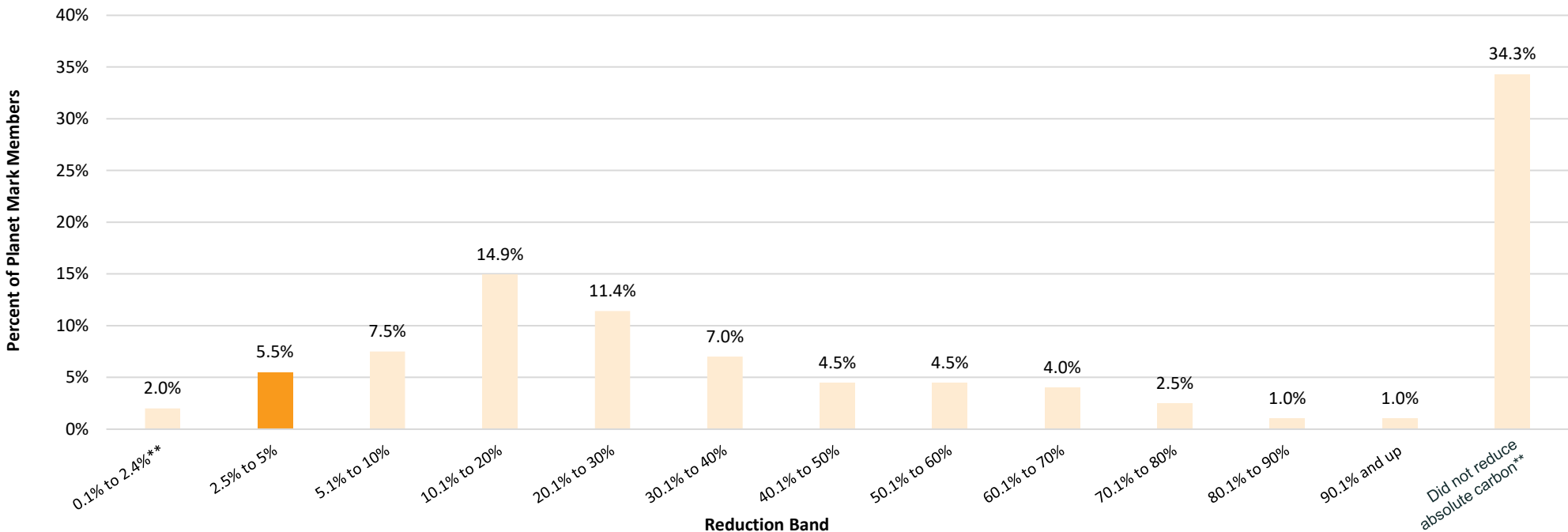
Absolute carbon  
reduction achieved:

**-2.6%**



Your reduction band is  
highlighted on the graph.

Bowmer + Kirkland  
Construction Sites reduced its  
measured carbon by 2.6% from  
the previous year. 5.5% of  
Planet Mark Members also  
achieved a 2.5% to 5%  
reduction in their measured  
carbon.

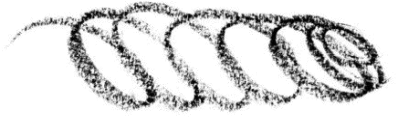


\*The benchmarking data above is based on YE2021 reporting period and a sample of 352 Members. It excludes Members in their first year of carbon measurement as historic comparison is not possible.

\*\*Certified using another qualifying metric.



## Looking ahead. Targets for next year.



### Construction Sites

Measured carbon  
footprint

**7,539.7 tCO<sub>2</sub>e**



Carbon  
reduction target (5%)

**377.0 tCO<sub>2</sub>e**



Carbon reduction  
per employee (5%)

**0.5 tCO<sub>2</sub>e**





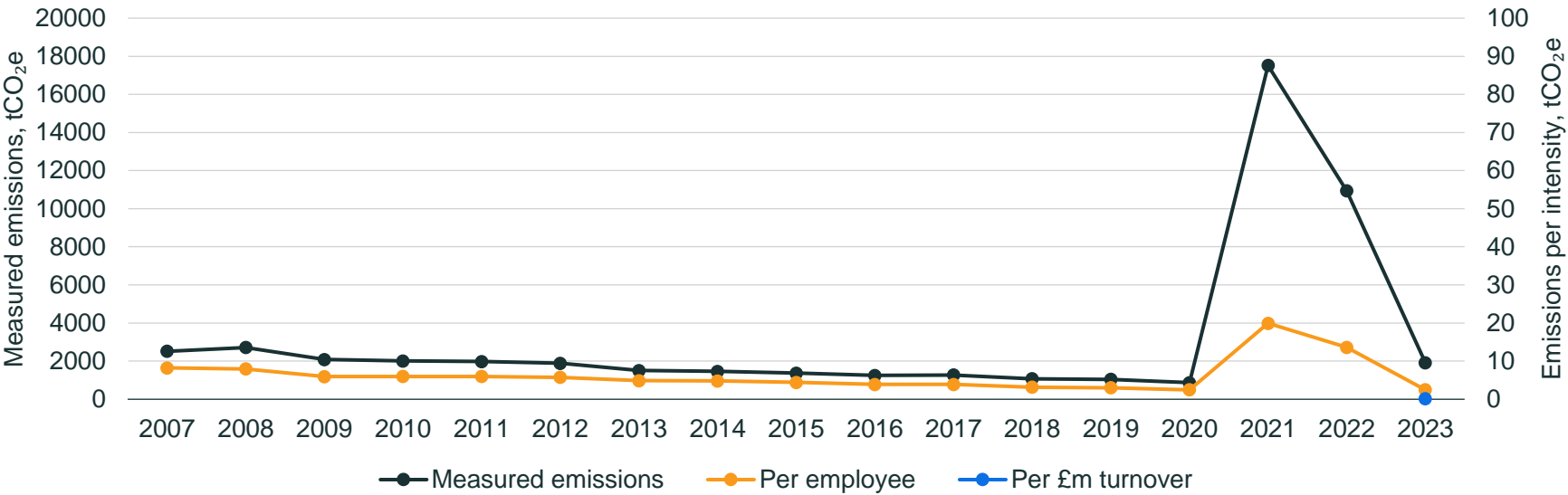


# Historical Carbon Emissions

Reported carbon emissions year ending 2007 to 2023

**Note:**

This graph shows absolute reported carbon emissions for each year the Planet Mark Business Certification was measured using the location-based method. Planet Mark's Business Certification covers scope 1, 2 and some 'core' scope 3 emissions

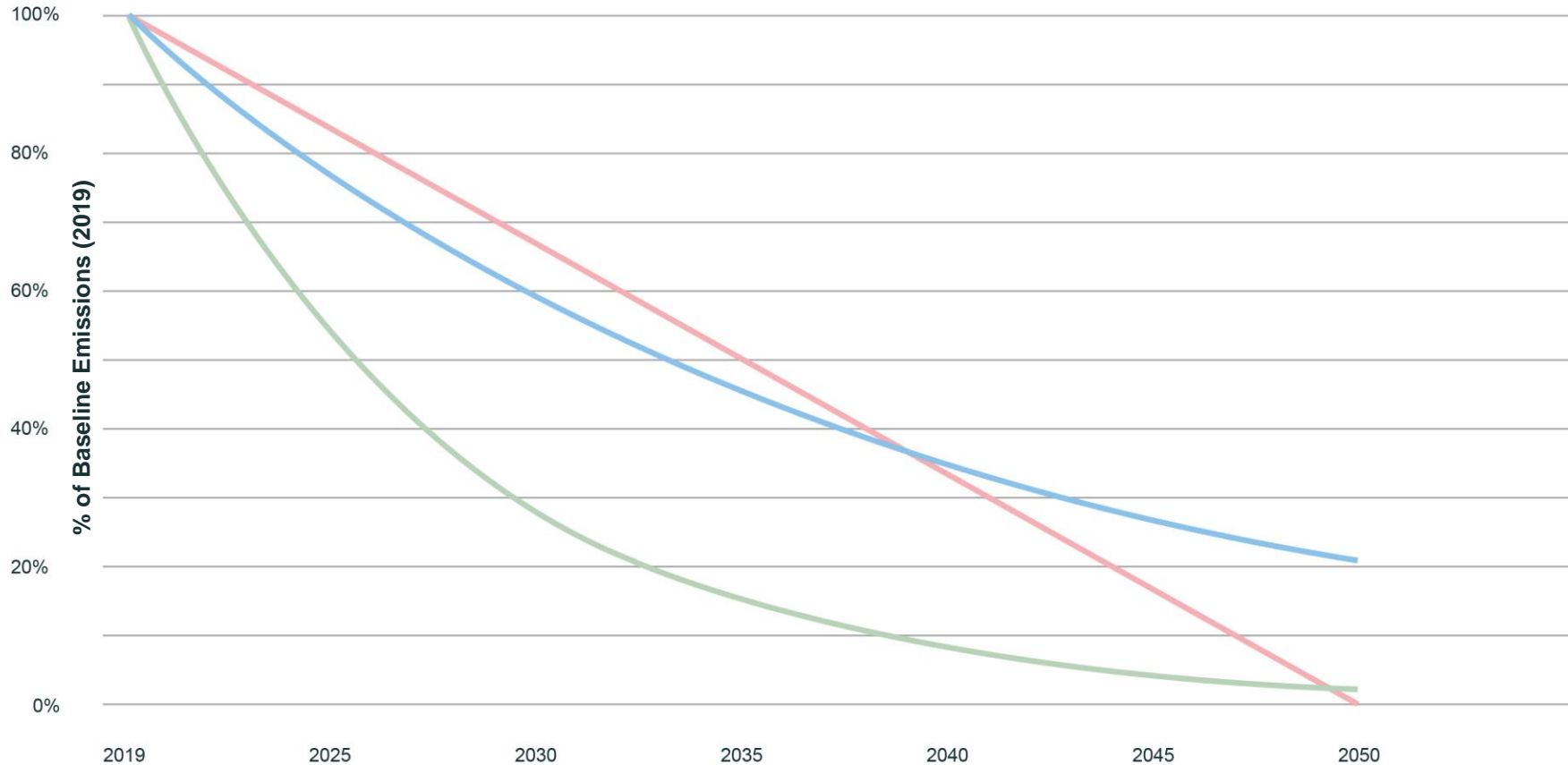


Improvements in data quality and changes to the business reporting boundary may impact the emission sources included in each year's certification. Meaningful comparisons, therefore, may not be possible without normalisation (not shown here). Annual reductions are based on the previous year's emissions (a rolling baseline), with certification awarded based on a minimum normalised reduction requirement or the emissions banking approach.



# Target setting.

## A Decade of Action: Pathways to Net Zero through varying emissions reduction trajectories



**Planet Mark 5% annual reduction**

- 5% year on year reduction is the minimum annual reduction recommended by the Planet Mark.

**Planet Mark 12% annual reduction**

- 12% year on year reduction is based on the mean average reduction achieved by the Planet Mark holders in Ye2019.
- A 12% year on year reduction from a 2019 baseline will set you on track to meet the UK target Net Zero by 2050.

**Net Zero 2050**



# Step two.

## ENGAGE





# Workshops.

At Planet Mark we believe each day is an opportunity to create change. Our engagement experts will help unlock your employees' passion and help embed sustainability within your organisation.

Our workshops seek to inform, inspire and empower participants to become part of your business' net zero journey.

One virtual 1h sustainability workshop is included with your Certification.

Book a call with us [here](#) to explore how we can help upskill, build confidence and participation among your team and wider stakeholders.

Workshop	Description
<b>Sustainability Plan Workshop</b>	A three-hour session which lifts the lid on operational carbon emissions, supporting a brainstorming session to understand impacts and consider actions that can make a material difference. Participants leave with a one-year Sustainability Plan with SMART targets, roles and responsibilities.
<b>Net Zero Carbon Essentials</b>	A three-hour CPD accredited workshop which introduces the fundamentals of net zero carbon and what it means for a business to embark on a Net Zero journey.
<b>Net Zero Masterclass</b>	Designed for senior leaders and board members, this short workshop covers the Net Zero terminology, legislation and frameworks and presents an opportunity for leaders to discuss the company's net zero journey.
<b>Business Sustainability Essentials</b>	A three-hour CPD accredited workshop covering the basics of business sustainability and the role your employees can adopt in driving change from within.
<b>Supplier Engagement workshop</b>	Invite your suppliers to learn about and get involved with your sustainability journey and net zero ambitions. We facilitate and build content particularly around Scope 3 emissions.





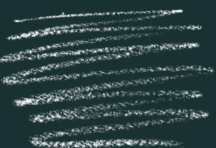
# The Eden Project

## *PARTNERSHIP*

At Planet Mark, we recognise that that we need nature to address the greatest challenges of our time.

The Eden Project, an educational charity, connects us with each other and the living world, exploring how we can work towards a better future.

As part of your certification with the Planet Mark, a number of tickets have been assigned to your organisation so you can visit the Eden Project for free – please get in touch to arrange your Eden Project visit and inspire and encourage positive action.







# Cool Earth

## *PARTNERSHIP*

Protecting our rainforests is one of our best lines of defence against climate change.

- Cool Earth is helping rainforest communities to protect nearly 100,000 hectares of biodiversity rich rainforest across three continents.
- Behind this huge milestone are thousands of families whose futures have been transformed.

# COOL EARTH





# Step three.

## COMMUNICATE





# Communicating your international influence.

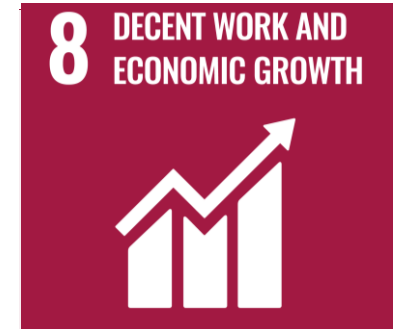
## Office Sites

The Sustainable Development Goals (SDGs), also known as the Global Goals, are a collection of 17 interrelated goals set by the United Nations. They cover a broad range of social and economic development issues. These include poverty, hunger, health, education, climate change, gender, equality, water, sanitation, energy.

By measuring and reducing your carbon footprint with the Planet Mark, you can directly and measurably contribute to up to 9 SDGs addressing 14 SDG targets.

Contributing towards

# 9 SDGs







# SDG alignment.



## Office Sites



6.3 - Reduction in total waste produced  
6.3 - 100% of water treated



9.4 - Reduction in electricity use



13.3 - Reduction in absolute carbon emissions  
13.3 - Donation to the Eden Project



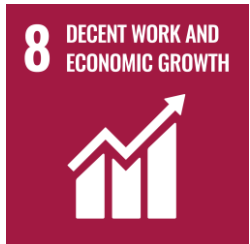
7.3 - Reduction in electricity use  
7.2 - 75% of energy demand met by renewable energy



11.6 - Measured carbon emissions  
11.6 - Reduction in absolute carbon emissions  
11.6 - Reduction in travel emissions  
11.6 - Reduction in total waste produced  
11.6 - 100% of waste recycled and composted  
11.4 - Donation to the Eden Project



14.3 - Reduction in absolute carbon emissions  
14.1 - Reduction in total waste produced



8.4 - Reduction in absolute carbon emissions  
8.4 - Reduction in carbon emissions per intensity



12.6 - Measured carbon emissions  
12.1 - Reduction in absolute carbon emissions  
12.5 - Reduction in total waste produced  
12.5 - 100% of waste recycled and composted



15.5 - Reduction in absolute carbon emissions  
15.2 - Reduction in paper use  
15.2 - 100% of paper FSC/PEFC certified



# Communicating your international influence.

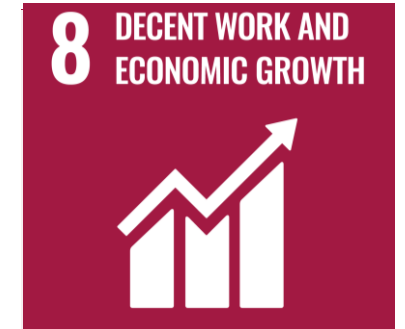
## Construction Sites

The Sustainable Development Goals (SDGs), also known as the Global Goals, are a collection of 17 interrelated goals set by the United Nations. They cover a broad range of social and economic development issues. These include poverty, hunger, health, education, climate change, gender, equality, water, sanitation, energy.

By measuring and reducing your carbon footprint with the Planet Mark, you can directly and measurably contribute to up to 9 SDGs addressing 14 SDG targets.

Contributing towards

# 9 SDGs





# SDG alignment.



## Construction Sites



6.3 - 1% of water treated



9.4 - Reduction in energy use  
9.4 - Reduction in electricity use



13.3 - Reduction in absolute carbon emissions  
13.3 - Donation to the Eden Project



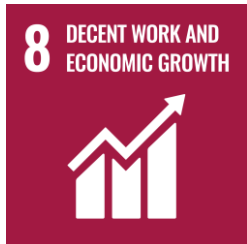
7.3 - Reduction in energy use  
7.3 - Reduction in electricity use  
7.2 - 75% of energy demand met by renewable energy



11.6 - Measured carbon emissions  
11.6 - Reduction in absolute carbon emissions  
11.6 - 89% of waste recycled and composted  
11.4 - Donation to the Eden Project



14.3 - Reduction in absolute carbon emissions



8.4 - Reduction in absolute carbon emissions



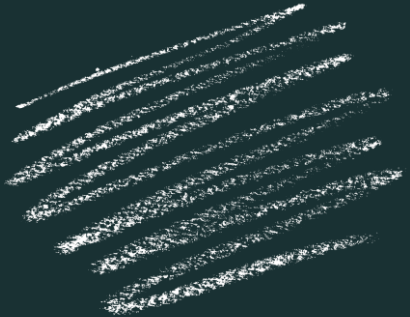
12.6 - Measured carbon emissions  
12.1 - Reduction in absolute carbon emissions  
12.5 - 89% of waste recycled and composted



15.5 - Reduction in absolute carbon emissions  
15.2 - 100% of paper FSC/PEFC certified



# 5 ways to accelerate your sustainability journey.



## 1. Review our recommendations

**Guidance for general best practice:** See the Appendix of this report for recommendations to do with Data Collection & Quality, Building, Waste, Travel, Paper, Staff Engagement and Supplier Engagement.

## 2. Join our online community

**Planet Mark online community platform:** If you haven't already, invite your team to join our exclusive member-only community platform, where you can check out inspirational initiatives to implement in your own organisation and collaborate with other Planet Mark Members. Join [here](#).

## 3. Use our toolkits & resources

**Toolkits & Guides:** Go to our Members Area on our [website](#) and make use of resources available to Planet Mark members.

## 4. Connect with us

**Social media channels:** We're active across social media and would love to help share your sustainability stories across our platform, just connect and tag us please!

## 5. Need more support?

**We can help.** We are here to support on your sustainability journey, no matter where you're at. If you're on a path to net zero, we have a suite of Net Zero [Solutions](#) to offer. If you want further stakeholder engagement support, browse our list of workshops [here](#) or just get in touch to discuss.



# Data Report.

APPENDIX



Current

01 September 2021 to 31 August 2022 01 September 2022 to 31 August 2023

Source	Scope	Unit	Amount	tCO <sub>2</sub> e	Amount	tCO <sub>2</sub> e	% Change in tCO <sub>2</sub> e from previous year	% total carbon footprint	% Change in amounts from previous year
<b>Buildings</b>									
Electricity (location based)	2	kWh	1,134,259.0	219.3	1,111,848.2	230.2	5%	12%	-2%
Electricity (market based)	2	kWh	1,157,170.0	492.0	1,111,848.2	280.0	-43%	-	-4%
Natural Gas	1	kWh	140,069.0	25.6	366,618.9	67.1	162%	3%	162%
Transmission and Distribution Losses	3	kWh	1,157,170.0	20.5	1,086,343.0	19.5	-5%	1%	-6%
<b>Procurement</b>									
Paper Primary Content	3	tonnes	27.1	24.9	11.4	10.4	-58%	1%	-58%
<b>Travel</b>									
Fleet Van	1	km	-	-	25,853.1	6.0	-	0.3%	-
Fleet Petrol Fuel	1	litres	260,157.7	562.4	1,797.7	3.8	-99%	0.2%	-99%
Fleet Petrol Car	1	km	-	-	3,043,321.7	498.8	-	26%	-
Fleet Average Car	1	km	-	-	27,284.8	4.5	-	0.2%	-
Fleet Diesel Car	1	km	-	-	1,462,364.3	248.3	-	13%	-
Fleet Diesel Fuel	1	litres	201,002.2	514.1	18,441.4	46.3	-91%	2%	-91%
Fleet Hybrid Car	1	km	-	-	171,945.5	20.5	-	1%	-
Fleet HGV	1	km	-	-	198,898.5	173.4	-	9%	-
Fleet Electric Car	2	km	161,351.2	7.2	115,412.5	5.6	-22%	0.3%	-28%
Petrol Car	3	km	-	-	1,107,002.3	181.4	-	9%	-
Hybrid Car	3	km	-	-	502,739.8	59.8	-	3%	-
Air Travel	3	passenger.km	62,552.0	7.8	36,008.5	4.6	-42%	0.2%	-42%
Petrol Fuel	3	litres	133,176.0	287.9	-	-	-	-	-
Ferry	3	passenger.km	389.5	0.01	39.9	0.01	-29%	0.01%	-90%
Electric Car	3	km	241,055.6	12.4	401,781.9	22.0	78%	1%	67%
Diesel Fuel	3	litres	104,630.9	267.6	-	-	-	-	-
Diesel Car	3	km	-	-	1,533,574.8	260.4	-	14%	-
Average Car	3	km	-	-	165,832.4	27.6	-	1%	-
Fleet Electric Car	3	km	161,351.2	0.7	115,412.5	0.5	-27%	0.03%	-28%
Rail Travel	3	passenger.km	652,085.6	23.1	652,855.2	23.2	0.2%	1%	0.1%
<b>Waste</b>									
Landfill	3	tonnes	9.5	4.4	-	-	-	-	-
Recycled	3	tonnes	32.0	0.7	21.9	0.5	-32%	0.02%	-32%

All rows and tables are rounded to one decimal place. This may lead to slight discrepancies in totals within the report.

Current

01 September 2021 to 31 August 2022 01 September 2022 to 31 August 2023

Source	Scope	Unit	Amount	tCO <sub>2</sub> e	Amount	tCO <sub>2</sub> e	% Change in tCO <sub>2</sub> e from previous year	% total carbon footprint	% Change in amounts from previous year
<b>Water</b>									
Water Supply	3	cubic metres	4,383.1	0.7	5,127.4	0.9	39%	0.1%	17%
Water Treatment	3	cubic metres	4,383.1	1.2	5,127.4	1.0	-13%	0.1%	17%
<b>Location Based</b>									
<b>Total</b>		<b>tCO<sub>2</sub>e</b>		<b>1,980.6</b>		<b>1,916.4</b>	<b>-3%</b>		
No. employees		Number		804		779.5			
<b>Total per employee</b>		<b>tCO<sub>2</sub>e</b>		<b>2.5</b>		<b>2.5</b>	<b>-0.2%</b>		
Turnover £m		£m		0		12,000.0			
<b>Total per £m</b>		<b>tCO<sub>2</sub>e</b>		<b>0</b>		<b>0.2</b>	<b>0%</b>		
Total floor space		m <sup>2</sup>		14,728.0		18,373.0			
<b>Building emissions per m<sup>2</sup></b>		<b>tCO<sub>2</sub>e</b>		<b>0.02</b>		<b>0.02</b>	<b>-4%</b>		
<b>Market Based</b>									
<b>Total</b>		<b>tCO<sub>2</sub>e</b>		<b>2,253.2</b>		<b>1,966.2</b>	<b>-13%</b>		
No. employees		Number		804		779.5			
<b>Total per employee</b>		<b>tCO<sub>2</sub>e</b>		<b>2.8</b>		<b>2.5</b>	<b>-10%</b>		
Turnover £m		£m		0		12,000.0			
<b>Total per £m</b>		<b>tCO<sub>2</sub>e</b>		<b>0</b>		<b>0.2</b>	<b>0%</b>		
Total floor space		m <sup>2</sup>		14,728.0		18,373.0			
<b>Building emissions per m<sup>2</sup></b>		<b>tCO<sub>2</sub>e</b>		<b>0.04</b>		<b>0.02</b>	<b>-45%</b>		

All rows and tables are rounded to one decimal place. This may lead to slight discrepancies in totals within the report.

Current

01 September 2021 to 31 August 2022 01 September 2022 to 31 August 2023

Source	Scope	Unit	Amount	tCO <sub>2</sub> e	Amount	tCO <sub>2</sub> e	% Change in tCO <sub>2</sub> e from previous year	% total carbon footprint	% Change in amounts from previous year
<b>Buildings</b>									
Biodiesel HVO	1	litres	38,333.0	1.4	181,810.0	6.5	374%	0.1%	374%
Diesel Fuel	1	litres	2,261,336.7	6,102.9	1,928,695.0	5,129.1	-16%	68%	-15%
Electricity (location based)	2	kWh	4,159,572.0	804.4	3,107,156.6	643.4	-20%	9%	-25%
Electricity (market based)	2	kWh	4,159,572.0	1,450.5	3,107,156.6	0	-100%	-	-25%
Gas Oil	1	litres	121,976.0	336.5	-	-	-	-	-
LPG	1	tonnes	-	-	7.4	21.7	-	0.3%	-
Natural Gas	1	kWh	1,557,632.7	284.3	48,907.2	8.9	-97%	0.1%	-97%
Transmission and Distribution Losses	3	kWh	4,159,572.0	73.6	3,107,156.6	55.7	-24%	1%	-25%
<b>Procurement</b>									
Paper Primary Content	3	tonnes	-	-	15.8	14.4	-	0.2%	-
<b>Waste</b>									
Energy from Waste	3	tonnes	-	-	452.9	9.6	-	0.1%	-
Landfill	3	tonnes	17,073.5	21.1	40,425.1	789.0	3646%	10%	137%
Recycled	3	tonnes	97,538.1	96.1	330,590.0	325.6	239%	4%	239%
<b>Water</b>									
Water Supply	3	cubic metres	55,282.2	8.2	3,008,006.3	531.5	6352%	7%	5341%
Water Treatment	3	cubic metres	55,282.2	15.0	21,312.0	4.3	-71%	0.1%	-61%
<b>Location Based</b>									
<b>Total</b>		<b>tCO<sub>2</sub>e</b>		<b>7,743.4</b>		<b>7,539.7</b>	<b>-3%</b>		
No. employees		Number		804		779.5			
<b>Total per employee</b>		<b>tCO<sub>2</sub>e</b>		<b>9.6</b>		<b>9.7</b>	<b>0.4%</b>		
Turnover £m		£m		0		12,000.0			
<b>Total per £m</b>		<b>tCO<sub>2</sub>e</b>		<b>0</b>		<b>0.6</b>	<b>0%</b>		
Total floor space		m <sup>2</sup>		14,728.0		18,373.0			
<b>Building emissions per m<sup>2</sup></b>		<b>tCO<sub>2</sub>e</b>		<b>0.5</b>		<b>0.3</b>	<b>-38%</b>		
<b>Market Based</b>									
<b>Total</b>		<b>tCO<sub>2</sub>e</b>		<b>8,389.6</b>		<b>6,896.3</b>	<b>-18%</b>		
No. employees		Number		804		779.5			
<b>Total per employee</b>		<b>tCO<sub>2</sub>e</b>		<b>10.4</b>		<b>8.8</b>	<b>-15%</b>		
Turnover £m		£m		0		12,000.0			
<b>Total per £m</b>		<b>tCO<sub>2</sub>e</b>		<b>0</b>		<b>0.6</b>	<b>0%</b>		
Total floor space		m <sup>2</sup>		14,728.0		18,373.0			
<b>Building emissions per m<sup>2</sup></b>		<b>tCO<sub>2</sub>e</b>		<b>0.6</b>		<b>0.3</b>	<b>-49%</b>		





# About this report – General. Office Sites

<b>Company Name</b>	Bowmer + Kirkland
<b>Sector</b>	Construction
<b>Reporting Period</b>	01 September 2022 to 31 August 2023
<b>Year Of Certification</b>	16th
<b>Reporting Boundary</b>	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
<b>Emission sources included</b>	Electricity, T&D Losses, On-Site Renewables, Natural Gas, Water, Fleet, Business Travel, Waste, Paper, Commuting, Diesel, HVO, Homeworking (not included in total footprint)
<b>Total FTE Employees (annual average no.)</b>	780
<b>Total Internal Floorspace (m²)</b>	18,373
<b>Data Collection Lead</b>	Daniel Birkinshaw, <a href="mailto:daniel.birkinshaw@bandk.co.uk">daniel.birkinshaw@bandk.co.uk</a> - Sustainability Manager
<b>Significant reporting changes</b>	Due to the nature of construction work, some sites closed, and some opened during the reporting period. BKBS has ceased trading from 2023 onwards and asset is just empty.
<b>Baseline Conversion Factor</b>	BEIS 2022
<b>Current Conversion Factor</b>	DESNZ 2023
<b>Methodology</b>	We follow the GHG Protocol for Corporate Emission Reporting and The National TOMs Framework for Social Value Reporting. Refer to Planet Mark Business Certification Scheme Rules for detailed information on the methodology and standards used in the preparation of this report.
<b>Community Project</b>	Contributions to the Eden Project have been made as part of Planet Mark Certification.
<b>Prepared by</b>	Ashley Whichelow, Sustainability Consulting Manager, Planet Mark
<b>Checked by</b>	Jamie Beevor, Head of Technical, Planet Mark Alex Smith, Sustainability Consultant, Planet Mark Emily Reed, Operations Coordinator, Planet Mark
<b>Date</b>	30 November 2023



# About this report – General. Construction Sites

<b>Company Name</b>	Bowmer + Kirkland Construction Sites
<b>Sector</b>	Construction
<b>Reporting Period</b>	01 September 2022 to 31 August 2023
<b>Year Of Certification</b>	16th
<b>Reporting Boundary</b>	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
<b>Emission sources included</b>	Electricity, T&D Losses, On-Site Renewables, Natural Gas, Water, Fleet, Business Travel, Waste, Paper, Commuting, Diesel, HVO, Homeworking (not included in total footprint)
<b>Total FTE Employees (annual average no.)</b>	780
<b>Total Internal Floorspace (m<sup>2</sup>)</b>	18,373
<b>Data Collection Lead</b>	Daniel Birkinshaw, <a href="mailto:daniel.birkinshaw@bandk.co.uk">daniel.birkinshaw@bandk.co.uk</a> - Sustainability Manager
<b>Significant reporting changes</b>	Due to the nature of construction work, some sites closed and some opened during the reporting period. BKBS has ceased trading from 2023 onwards and asset is just empty.
<b>Baseline Conversion Factor</b>	BEIS 2022
<b>Current Conversion Factor</b>	DESNZ 2023
<b>Methodology</b>	We follow the GHG Protocol for Corporate Emission Reporting and The National TOMs Framework for Social Value Reporting. Refer to Planet Mark Business Certification Scheme Rules for detailed information on the methodology and standards used in the preparation of this report.
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<b>Checked by</b>	Jamie Beevor, Head of Technical, Planet Mark Alex Smith, Sustainability Consultant, Planet Mark Emily Reed, Operations Coordinator, Planet Mark
<b>Date</b>	30 November 2023



# About this report – Caveats (i). Office Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Electricity	2 and 3	kWh	Primary source - report	Actual	Electricity consumption has been adjusted to reflect the evidence provided. It has been assumed that the electricity consumption withing the evidence covers the reporting period and not the project period. Your electricity consumption is shown in the carbon footprint as Purchased Electricity emissions (Scope 2 emissions) and Electricity Transmission and Distribution losses (Scope 3 emissions).	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Electricity	2 and 3	kWh	Primary source - report	Actual	Your scope 2 electricity emissions are reported in two ways: location-based and market-based methods. Location-based electricity emissions have been calculated using carbon emission factors for average national or sub-national grid electricity. Market-based electricity emissions have been calculated using carbon emission factors for your specific electricity supply fuel mix as published on your supplier's website for electricity supplied in the period April 2021 to March 2022 or residual fuel mix 2021/22 (as no information on your specific supplier fuel mix was available). The market-based emissions on the Construction Sites has been caculated based on 100% renewable tariffs, as well as the NES Region - Rainton Bridge site. For the Heage it has been based on TotalEnergies fuel mix. For the remaining sites, it has been considered a Residual Mix.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

Note: unless otherwise stated in the report all electricity emissions are location based (i.e. calculated using carbon emission factors for average UK national grid electricity).  
Do let us know if your electricity is from 100% renewable energy and we will provide dual reporting to show both market based and location based electricity emissions.



# About this report – Caveats (ii). Office Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
On-Site Renewables	2	kWh	Primary source - meter readings	Actual and estimated meter reads with interpolation	On-site renewables consumption is included within Electricity in the report. 0% of generation is exported. Feed-in-Tariff is received and no evidence of retired REGOs was provided. The grid average emission factor has been applied to location-based and the residual mix for market-based. The amount (kWh) has been interpolated to match the reporting period. Please refer to the adjusted data slide(s) for details of interpolation.	Heage HQ & (EM-NM-WM)
Natural Gas	1	kwh	s - bank house, high edge court, lace market studios and fusion students	Actual meter reads	Gas consumption has been adjusted to reflect the evidence provided. It has been assumed that the electricity consumption withing the evidence covers the reporting period and not the project period. The figures disclosed on the evidence have been added under this source. NW Regional Office - Atlas House, Site Services, Key Property Solutions, BKBS, and, Glasgow have no natural gas supply.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Building Fuel	1	litres	Primary source - report	Actual	All sub-contractor fuel has been removed by Bowmer+Kirkland, it has been assumed this is correct. Only Diesel and HVO have been purchased during the reporting period and only for construction sites.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

Note: unless otherwise stated in the report all electricity emissions are location based (i.e. calculated using carbon emission factors for average UK national grid electricity). Do let us know if your electricity is from 100% renewable energy and we will provide dual reporting to show both market based and location based electricity emissions.



# About this report – Caveats (iii). Office Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Water Supply & Treatment	3	m <sup>3</sup>	Primary source - report	Actual	Water consumption has been adjusted to reflect the evidence provided. It has been assumed that the electricity consumption withing the evidence covers the reporting period and not the project period. The water supply figures came from the 'Water report' evidence file. The water treatment amount of the offices have been assumed the same as water supplied. In case of Construction sites, the figures disclosed on the evidence under the 'Total water discharged (m3)' have been added as water treatment.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Homeworking Energy	3	kWh	Secondary sources - Planet Mark homeworking energy calculation tool and data submission	Estimated	<p>UK homeworking energy includes additional electricity and gas consumption as a result of each full-time equivalent employee working from home. We base our estimate of energy consumption due to homeworking on the new BEIS 2022 homeworking emission factors. The annualised BEIS emission factors have been converted into monthly estimates of energy consumption in order to better account for seasonal variations. Our estimates are based on a 40h working week and a 6-month heating season (October to March) and take into account annual leave.</p> <p>Where the business has a physical office, homeworking utility emissions are calculated but not included in the Total Carbon Footprint figure.</p>	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Fleet Vehicles	1, 2 and 3	km and litres	Primary source - fuel report	Actual	It includes the Vans fuel, company cars mileage and litres. It has been assumed 50% of the electric vehicles were charged on site as per the previous analysis.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

Note: unless otherwise stated in the report all electricity emissions are location based (i.e. calculated using carbon emission factors for average UK national grid electricity). Do let us know if your electricity is from 100% renewable energy and we will provide dual reporting to show both market based and location based electricity emissions.



# About this report – Caveats (iv). Office Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Private Vehicles Used for Business	3	km	Primary source - mileage report	Actual	Mileage data has been used over fuel data due to fuel consumption data not being available for all vehicles. The average car emissions factor has been used where fuel type has not been stated.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Air Travel	3	pkm	Primary source - travel report	Actual	Actual distances have been provided by Bowmer+Kirkland, it has been assumed these have been provided by the booking company and these are all correct. All 'Hybrids' and sites outside of the scope of this report have been excluded.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Rail Travel	3	pkm	Primary source - travel report	Actual	Actual distances have been provided by Bowmer+Kirkland, it has been assumed these have been provided by the booking company and these are all correct. All 'Hybrids' and sites outside of the scope of this report have been excluded.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

Note: unless otherwise stated in the report all electricity emissions are location based (i.e. calculated using carbon emission factors for average UK national grid electricity). Do let us know if your electricity is from 100% renewable energy and we will provide dual reporting to show both market based and location based electricity emissions.



# About this report – Caveats (v). Office Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Ferry Travel	3	pkm	Secondary sources - data submission and report	Actual	Only one ferry journey has been taken during the reporting period, distance has been found here <a href="https://www.directferries.co.uk/cowes_southampton_ferry.htm">https://www.directferries.co.uk/cowes_southampton_ferry.htm</a> .	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Waste	3	tonnes	Primary source - report	Actual	Actual waste weights and disposal routes have been provided, and it has been assumed the division between sites and material type identified are correct.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Procurement - Paper	3	tonnes	Secondary sources - data submission and report	Actual	Bowmer+Kirkland have provided actual paper weights, it has been assumed all paper is sustainably sourced and all weights provided by the member are correct even where this information cannot be seen within the evidence provided.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

Note: unless otherwise stated in the report all electricity emissions are location based (i.e. calculated using carbon emission factors for average UK national grid electricity). Do let us know if your electricity is from 100% renewable energy and we will provide dual reporting to show both market based and location based electricity emissions.



# About this report – Caveats (vi). Office Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations, omissions, estimates or extrapolations	Organisational Boundary
Headcount		no.	Primary source - email from HR	Actual	We have used the annual average full-time equivalent employees. Part-time employees are assumed to work 20 hours a week. We assume headcount only includes active employees (i.e. excludes employees on furlough).	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Turnover		£m	Secondary source - data submission form	Assumed Actual	None	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

Note: unless otherwise stated in the report all electricity emissions are location based (i.e. calculated using carbon emission factors for average UK national grid electricity). Do let us know if your electricity is from 100% renewable energy and we will provide dual reporting to show both market based and location based electricity emissions.





# About this report – Caveats (i). Construction Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Electricity	2 and 3	kWh	Primary source - report	Actual	Electricity consumption has been adjusted to reflect the evidence provided. It has been assumed that the electricity consumption withing the evidence covers the reporting period and not the project period. Your electricity consumption is shown in the carbon footprint as Purchased Electricity emissions (Scope 2 emissions) and Electricity Transmission and Distribution losses (Scope 3 emissions).	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Electricity	2 and 3	kWh	Primary source - report	Actual	Your scope 2 electricity emissions are reported in two ways: location-based and market-based methods. Location-based electricity emissions have been calculated using carbon emission factors for average national or sub-national grid electricity. Market-based electricity emissions have been calculated using carbon emission factors for your specific electricity supply fuel mix as published on your supplier's website for electricity supplied in the period April 2021 to March 2022 or residual fuel mix 2021/22 (as no information on your specific supplier fuel mix was available). The market-based emissions on the Construction Sites has been caculated based on 100% renewable tariffs, as well as the NES Region - Rainton Bridge site. For the Heage it has been based on TotalEnergies fuel mix. For the remaining sites, it has been considered a Residual Mix.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

Note: unless otherwise stated in the report all electricity emissions are location based (i.e. calculated using carbon emission factors for average UK national grid electricity).  
Do let us know if your electricity is from 100% renewable energy and we will provide dual reporting to show both market based and location based electricity emissions.



# About this report – Caveats (ii). Construction Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Natural Gas	1	kwh	s - bank house, high edge court, lace market studios and fusion students	Actual meter reads	Gas consumption has been adjusted to reflect the evidence provided. It has been assumed that the electricity consumption withing the evidence covers the reporting period and not the project period. The figures disclosed on the evidence have been added under this source. NW Regional Office - Atlas House, Site Services, Key Property Solutions, BKBS, and, Glasgow have no natural gas supply.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Building Fuel	1	litres	Primary source - report	Actual	All sub-contractor fuel has been removed by Bowmer+Kirkland, it has been assumed this is correct. Only Diesel and HVO have been purchased during the reporting period and only for construction sites.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

Note: unless otherwise stated in the report all electricity emissions are location based (i.e. calculated using carbon emission factors for average UK national grid electricity). Do let us know if your electricity is from 100% renewable energy and we will provide dual reporting to show both market based and location based electricity emissions.



# About this report – Caveats (iii). Construction Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Water Supply & Treatment	3	m <sup>3</sup>	Primary source - report	Actual	Water consumption has been adjusted to reflect the evidence provided. It has been assumed that the electricity consumption withing the evidence covers the reporting period and not the project period. The water supply figures came from the 'Water report' evidence file. The water treatment amount of the offices have been assumed the same as water supplied. In case of Construction sites, the figures disclosed on the evidence under the 'Total water discharged (m3)' have been added as water treatment.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Homeworking Energy	3	kWh	Secondary sources - Planet Mark homeworking energy calculation tool and data submission	Estimated	<p>UK homeworking energy includes additional electricity and gas consumption as a result of each full-time equivalent employee working from home. We base our estimate of energy consumption due to homeworking on the new BEIS 2022 homeworking emission factors. The annualised BEIS emission factors have been converted into monthly estimates of energy consumption in order to better account for seasonal variations. Our estimates are based on a 40h working week and a 6-month heating season (October to March) and take into account annual leave.</p> <p>Where the business has a physical office, homeworking utility emissions are calculated but not included in the Total Carbon Footprint figure.</p>	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Fleet Vehicles	1, 2 and 3	km and litres	Primary source - fuel report	Actual	It includes the Vans fuel, company cars mileage and litres. It has been assumed 50% of the electric vehicles were charged on site as per the previous analysis.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

Note: unless otherwise stated in the report all electricity emissions are location based (i.e. calculated using carbon emission factors for average UK national grid electricity). Do let us know if your electricity is from 100% renewable energy and we will provide dual reporting to show both market based and location based electricity emissions.



# About this report – Caveats (iv). Construction Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Private Vehicles Used for Business	3	km	Primary source - mileage report	Actual	Mileage data has been used over fuel data due to fuel consumption data not being available for all vehicles. The average car emissions factor has been used where fuel type has not been stated.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Air Travel	3	pkm	Primary source - travel report	Actual	Actual distances have been provided by Bowmer+Kirkland, it has been assumed these have been provided by the booking company and these are all correct. All 'Hybrids' and sites outside of the scope of this report have been excluded.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Rail Travel	3	pkm	Primary source - travel report	Actual	Actual distances have been provided by Bowmer+Kirkland, it has been assumed these have been provided by the booking company and these are all correct. All 'Hybrids' and sites outside of the scope of this report have been excluded.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

Note: unless otherwise stated in the report all electricity emissions are location based (i.e. calculated using carbon emission factors for average UK national grid electricity). Do let us know if your electricity is from 100% renewable energy and we will provide dual reporting to show both market based and location based electricity emissions.



# About this report – Caveats (v). Construction Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Ferry Travel	3	pkm	Secondary sources - data submission and report	Actual	Only one ferry journey has been taken during the reporting period, distance has been found here <a href="https://www.directferries.co.uk/cowes_southampton_ferry.htm">https://www.directferries.co.uk/cowes_southampton_ferry.htm</a> .	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Waste	3	tonnes	Primary source - report	Actual	Actual waste weights and disposal routes have been provided, and it has been assumed the division between sites and material type identified are correct.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Procurement - Paper	3	tonnes	Secondary sources - data submission and report	Actual	Bowmer+Kirkland have provided actual paper weights, it has been assumed all paper is sustainably sourced and all weights provided by the member are correct even where this information cannot be seen within the evidence provided.	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

Note: unless otherwise stated in the report all electricity emissions are location based (i.e. calculated using carbon emission factors for average UK national grid electricity). Do let us know if your electricity is from 100% renewable energy and we will provide dual reporting to show both market based and location based electricity emissions.



# About this report – Caveats (vi). Construction Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations, omissions, estimates or extrapolations	Organisational Boundary
Headcount		no.	Primary source - email from HR	Actual	We have used the annual average full-time equivalent employees. Part-time employees are assumed to work 20 hours a week. We assume headcount only includes active employees (i.e. excludes employees on furlough).	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow
Turnover		£m	Secondary source - data submission form	Assumed Actual	None	Heage HQ & (EM-NM-WM), NES Region - Rainton Bridge, NW Regional Office - Atlas House, Southern Region - Arlington House, Construction Sites, Site Services, Key Property Solutions, BKBS and Glasgow

Note: unless otherwise stated in the report all electricity emissions are location based (i.e. calculated using carbon emission factors for average UK national grid electricity). Do let us know if your electricity is from 100% renewable energy and we will provide dual reporting to show both market based and location based electricity emissions.



# About this report.

## Data Quality.

### Data quality score

The data quality score is based on the ‘Data Quality Matrix’ in the Planet Mark Business Certification Scheme Rules and provides an indication of data assurance when using information in this report in your business.

	01 September 2021 to 31 August 2022	01 September 2022 to 31 August 2023	Definition
Relevance of boundary	3	3	Boundary accurately reflects the majority of the business carbon footprint for the studied period.(eg at least 75% of organisational activity included)
Data completeness	3	3	12 months of data provided for most sources.
Transparency	3	3	Majority disclosure of assumptions and/or some original evidence provided.
Data accuracy	3	3	Some use of primary data sources and minimal estimated data.
Consistency	3	3	Largely consistent or improved methods, boundary and data completeness with supporting evidence of changes made.
Total score	15 out of 20	15 out of 20	

**As a way to improve your data quality score for future reports, it is recommended:**

- To label sites consistently across all evidence and spreadsheets, giving each site a unique code to help with identification.
- To ensure all assumptions or intricacies in the data are noted and included as a part of the submission process



Emission Source	Scope	Site	Data Source	Data Accuracy	Date From	Date To	No. of Days	Adjusted Date From	Adjusted Date To	Adjusted No. of Days	Comment
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# Recommendations.

APPENDIX





# Guidance for general best practice.

## Data collection and quality

**Evidence pack:** Collate all relevant invoices in an electronic evidence pack.

**Utilities:** Take readings of all meters on the last day of the month. Investigate the installation of smart meters.

**Headcount:** Ask HR for a table showing monthly full time equivalent headcount for the whole reporting period.

**Fuel:** Introduce fuel cards.

**Travel:** Ask your travel suppliers to provide you with a report detailing mileage and mode of transport so you can accurately add data to your carbon footprint. For non centrally booked travel record mode of travel, destination/origin and distances travelled in expense claim forms.

## Building

**Energy efficiency:** Regular 'energy audits' will help identify where most energy is being used and potential wastage from equipment, lights and heat loss. Investigate the installation of LED, T5 and sensor lighting and the upgrade of heating controls.

## Waste

**Carry out a waste management audit:** To understand what waste you are producing, where it is coming from and what the best route for it would be. Provide plenty of bins for segregating waste correctly and encouraging recycling.

**Engage your waste management supplier** to help you reduce landfill waste and instead increase the proportion that goes to recycling and to energy from waste.



# Guidance for general best practice.

## Water

**Check your meters at night**, or when water is not in use, to monitor leakage.

**Introduce a water use awareness campaign** in communal kitchen areas.

## Travel

**Record all business travel** and promote public transport options for business meetings.

**Arrange safe and fuel efficient driving training** for all drivers. Plan driver routes to finish at their homes.

**Choose fuel efficient vehicles.** Electric or hybrid cars are exempt from various taxes. Subsidies are also available for smallest vehicles. Provide incentives for employees to opt for low carbon cars, and limit choices to those which meet sustainability criteria

**Choose travel management companies**, airlines, taxi companies, couriers and other providers that are Planet Mark certified, and look for clear progress on improving fuel efficiency and pursuing credible, sustainable solutions for travel.

## Paper

**Buy paper from sustainable forests** or recycled content. Ask for FSC or PEFC branded paper as a minimum - ideally with the EU Eco label.

**Choosing recycled content paper**, your carbon emissions from paper use are reduced by 30% but choosing sustainably sourced paper the benefits are more holistic as you support the demand for sustainably managed forests which may otherwise be cut down for a different land use such as agriculture.



# Guidance for general best practice.

## Staff engagement

**Organise annual sustainability workshops.**

Carry out an energy awareness and 'switch off' campaign.

## Supplier engagement

**Explore your possibilities and choose consciously.** Check the [Planet Mark website](#) for companies that are currently engaged on reducing their carbon footprint.



# A BRIGHTER future.



# THANK YOU

## Get in touch

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