

Business Certification

Bowmer & Kirkland

YEAR 15

01 September 2021 to 31 August 2022







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_2e



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Total carbon footprint Yearly Comparison نقت المحمد ال

Office & Construction Sites

YE2021

Source Category	tCO ₂ e	%
Electricity	1,618.6	9.2%
Natural Gas	424.5	25.4%
T&D Losses	143.2	2.4%
Freight	15.5	0.8%
Paper	52.7	0.3%
Business Travel	296.2	1.7%
Commuting	1,689.7	7.4%
Fleet Travel	1,305.2	42.3%
Waste	7,419.6	0.6%
Water	107.0	0.1%
Diesel/Gas Oil	4,450.8	9.6%
Total	17,522.9	100.0%

YE2022

Source Category	tCO ₂ e	%
Electricity	1,023.7	9.6%
Natural Gas	309.9	2.9%
T&D Losses	94.1	0.9%
Freight	112.5	1.1%
Paper	24.9	0.2%
Business Travel	598.9	5.6%
Commuting	778.4	7.3%
Fleet Travel	1,084.4	10.2%
Waste	122.2	1.2%
Water	25.0	0.2%
Diesel/Gas Oil	6,439.4	60.7%
Biodiesel HVO	1.4	0.0%
Total	10,614.9	100.0%



Total carbon EMISSIONS Office Sites





Step one. MEASURE





Total carbon footprint. Location *BASED*

Office Sites

Reporting year: 01 September 2021 to 31 August 2022

Reporting Boundary:

Office Sites: Heage offices, services and workshop; Chester-Le-Street; Rainton Bridge; Glasgow; Manchester; Reading; RWK House and Theale.

Emissions measured:

Electricity, T&D Losses, Onsite renewables, Natural Gas, Other Fuels, Water, Waste, Fleet, Business Travel, Commuting, Paper.

Highlights:

Carbon footprint (tCO_2e) :**2,871.5**Per employee (tCO_2e) :**3.6**Next reduction target:**5%**Data quality score:**15 out of 20**

Bowmer & Kirkland's market-based footprint for their office sites is 3144.1 tCO2e, however this report is based on location-based figures.

Carbon footprint by emission source for year ending 2022, tCO_2e



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).



Total carbon footprint. Yearly *COMPARISON* Office Sites

Year-on-year comparison was normalised to exclude emissions from paper, as last year the paper purchase data was split by site, so only the office paper was included in this report. However, this year's paper hasn't been split by site, so it is not possible to only report the office paper here, and thus comparing paper purchased in YE2022 vs YE2021 would not be comparing like-for-like.

Offices	2021	2022
Electricity	287.6	219.3
Natural Gas	89.3	25.6
Transmission and Distribution Losses	25.5	20.5
Freight	15.5	
Paper	44.2	
Business Travel	296.2	598.9
Commuting	1689.7	778.4
Fleet Travel	1305.2	1,084.4
Waste	7.7	5.1
Water	18.8	1.8
Total	3,779.8	2,734.1

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 2021 and 2022, $tCO_{2}e$

Water





Carbon footprint. Office Sites

Buildings emissions for year ending 2021 and 2022, tCO₂e

Buildings	2021	2022
Electricity	287.6	219.3
Natural Gas	89.3	25.6
Transmission and Distribution Losses	25.5	20.5
Total	402.4	265.4



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

As observed travel emissions are increasing after Covid pandemic restrictions are lifted.

Business Travel	2021	2022
Diesel Fuel	202.6	267.6
Ferry	0.02	0.01
Petrol Fuel	84.2	287.9
Rail Travel	9.5	23.1
Air Travel	-	7.8
Electric Car	-	12.4
Total	296.2	598.9

Business travel emissions for year ending 2021 and 2022, tCO2e



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

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Carbon footprint. Fleet TRAVEL

Office Sites

Fleet Travel	2021	2022
Fleet Diesel Fuel	607.5	514.1
Fleet Petrol Fuel	697.7	562.4
Fleet Electric Car	-	7.9
Total	1,305.2	1,084.4

Fleet travel emissions for year ending 2021 and 2022, tCO₂e



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



Carbon footprint. WASTE

Office Sites

Waste	2021	2022
Landfill	6.3	4.4
Recycled	1.5	0.7
Total	7.7	5.1

Waste emissions for year ending 2021 and 2022, tCO₂e



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

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Carbon footprint. WATER

Office Sites

Water	2021	2022
Water Supply	6.7	0.7
Water Treatment	12.2	1.2
Total	18.8	1.8

Water emissions for year ending 2021 and 2022, tCO₂e



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**

Notes:

• Total Year-on-year comparison was normalised to exclude emissions from paper, as last year the paper purchase data was split by site, so only the office paper was included in this report. However, this year's paper hasn't been split by site, so it is not possible to only report the office paper here, and thus comparing paper purchased in YE2022 vs YE2021 would not be comparing like-for-like.

Paper	2021	2022
Paper Primary Content	43.8	24.9
Paper Recycled Content	0.4	-
Total	44.2	24.9

Procurement emissions for year ending 2021 and 2022, tCO2e



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

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Carbon footprint. Courier FREIGHT Office Sites

Notes:

• Year-on-year comparison has been normalised to exclude freight emissions from the comparison as the methodology by which freight is measured has changed significantly, meaning the freight emissions reported in 2021 were not like-for-like with those in 2022. Freight emissions are still included in the 2022 total footprint.

Freight	2021	2022
Freight HGV	15.5	112.5
Total	15.5	112.5

Courier freight emissions for year ending 2021 and 2022, tCO2e

Freight



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



Carbon footprint.

COMMUTMG Office Sites

Commuting	2021	2022
Commuting Bus	0.7	5.0
Commuting Diesel Car	898.5	423.2
Commuting EV	28.7	-
Commuting PHEV	98.6	11.4
Commuting Petrol Car	653.7	287.9
Commuting Rail	9.5	19.2
Commuting Walking	0	0
Commuting Average Car	-	9.2
Commuting Bike	-	0
Commuting Electric Car	-	1.2
Commuting Hybrid Car	-	14.7
Commuting Van	-	6.6
Total	1,689.7	778.4

Commuting emissions for year ending 2021 and 2022, tCO₂e



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

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Total carbon footprint. *BY SCOPE*

Office Sites

Scope	tCO ₂ e	%
Scope 1	1,102.1	38.4
Scope 2	226.6	7.9
Scope 3	1,542.8	53.7
Total	2,871.5	100.0

Total carbon emissions by scope for year ending 2022, tCO₂e



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



Carbon footprint. *BY LOCATION* **Office Sites**





Benchmarking Percentage reduction.

% reduction in total carbon by holders of the Planet Mark (Year 2020)





Benchmarking Percentage reduction.

% reduction in total carbon per employee by holders of the Planet Mark (Year 2020)





Looking ahead. Targets for next year.







Total carbon EMISSIONS

Construction Sites





Total carbon footprint. Location BASED Construction Sites

Reporting year:

01 September 2021 to 31 August 2022

Reporting Boundary:

Construction Sites: BKBS; Key Property Solutions; East Midlands; North East; North Midlands; North West; Scotland; West Midlands; Southern Region.

Emissions measured:

Electricity, T&D Losses, Natural Gas, Site Fuel, Water, Waste.

Highlights:

Carbon footprint (tCO_2e) :**7,743.4**Per employee (tCO_2e) :**9.6**Next reduction target:**5%**Data quality score:**15 out of 20**

Bowmer & Kirkland's market-based footprint for their construction sites is 8,389.6 tCO2e, however this report is based on location-based figures.

Carbon footprint by emission source for year ending 2022, tCO₂e



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).



Total carbon footprint. Yearly COMPARISON

Construction Sites

Emissions Sources	2021	2022
Electricity	1,330.9	766.6
Diesel/Gas Oil	4,450.8	6,342.6
Natural Gas	335.2	280.6
Transmission and Distribution Losses	117.8	70.1
Biodiesel HVO -		1.4
Waste	7,411.9	117.1
Water	88.1	22.2
Total	13,734.7	7,600.6

Carbon footprint by emission source for year ending 2021 and 2022, $t\mathrm{CO}_2\mathrm{e}$



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



Carbon footprint.

Construction Sites

Sites 2021 2022 Electricity 1,330.90 766.6 Diesel/Gas Oil 4,450.80 6342.6 Natural Gas 335.2 280.6 **Transmission and Distribution Losses** 117.8 70.1 **Biodiesel HVO** 1.4 _ Total 6,234.70 7,461.20



Buildings emissions for year ending 2021 and 2022, tCO2e

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



Carbon footprint. WASTE

Construction Sites

Notes:

• Due to a change in methodology regarding how construction waste is categorised, there has been a significant reduction in associated waste emissions on the construction sites despite similar tonnage of waste being reported.

Waste	2021	2022
Landfill	7,310.3	21.1
Recycled	101.6	96.1
Total	7,411.9	117.1

Waste emissions for year ending 2021 and 2022, tCO2e



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

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Carbon footprint. WATER

Construction Sites

Water	2021	2022
Water Supply	31.2	7.9
Water Treatment	57.0	14.4
Total	88.1	22.2

Water emissions for year ending 2021 and 2022, tCO₂e



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

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Total carbon footprint. *BY SCOPE*

Construction Sites

Scope	tCO ₂ e	%
Scope 1	6,725.1	86.8
Scope 2	804.4	10.4
Scope 3	214.0	2.8
Total	7,743.4	100.0

Total carbon emissions by scope for year ending 2022, tCO₂e

Scope 1Scope 2

Scope 3





Carbon footprint. *BY LOCATION* **Construction Sites**

Carbon footprint for each location 3000 Waste 2500 tCO₂e Water 2000 Diesel/Gas Oil tCO₂e 1500 Biodiesel HVO 1000 T&D Losses 500 Electricity 0 Southern Region Construction Sites West Midlands Construction Sites ^{B&K Buildings Services} Key Property Solutions North East Construction Sites Scotland Construction Sites North West Region East Midlands North Midlands Natural Gas Site



Benchmarking Percentage reduction.

Construction Sites

% reduction in total carbon by holders of the Planet Mark (Year 2020)



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*Please note - a significant portion of this reduction comes from changes in waste emission factors



Benchmarking Percentage reduction.

Construction Sites

% reduction in total carbon per employee by holders of the Planet Mark (Year 2020)





Looking ahead. Targets for next year.



Construction Sites

Total carbon footprint 7,743.4 tCO₂e Total carbon reduction (5%) **387.2 tCO₂e**





Target setting.

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





Step two. EMGAGE



Workshops.

Our engagement experts will help unlock your employees' passion to innovate and take ownership of their environmental impacts.

Together, we celebrate every commitment and champion every success, providing positive reassurance to help you drive change from within.

Workshop	Description
Sustainability Energiser	A 1 hour session for everyone in the business. It raises awareness about sustainability, the business case for acting on climate change and the carbon footprint of the company. Includes brainstorm session inviting participants to come up with solutions.
Sustainability Plan Workshop	A 3 hour session which lifts the lid on operational carbon emissions, supporting a brainstorming sessions 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.
Business Sustainability Essentials Training	A 3 hour session covering the basics of business sustainability and the role your employees can adopt in driving change from within. Offered as both public and private event.
Stakeholder Engagement Workshop	A 30min-1 hour session, focussing on the member's sustainability journey to date, ambitions ahead with the view to encourage their suppliers/customers to join. Q&As, networking opportunity.



The Eden Project

At Planet Mark, we recognise 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. We are proud to donate funds to support the Eden Project.

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.



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Cool Earth PARMERSHIP

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.
- We have protected one acre of Peruvian rainforest in your company name.





Step three. COMMMTATE



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, and energy.

By measuring and reducing your carbon footprint with the Planet Mark, you can directly and measurably contribute to up to 9 SDGs addressing 18 SDG targets.



9 SDGs





SDG alignment.



Office Sites



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, and energy.

By measuring and reducing your carbon footprint with the Planet Mark, you can directly and measurably contribute to up to 9 SDGs addressing 18 SDG targets.

Contributing towards

9 SDGs





SDG alignment.



Construction Sites





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 <u>website</u> 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 <u>Solutions</u> to offer. If you want further stakeholder engagement support, browse our list of workshops <u>here</u> or just get in touch to discuss.



Data Report.







			Current							
			01 September 2020 to	31 August 2021	01 September 2021 to 31 August 2022					
Source	Scope	Unit	Amount	tCO ₂ e	Amount	tCO₂e	tCO₂e normalised	% Change in tCO ₂ e from previous year	% total carbon footprint	% Change in amounts from previous year
Buildings										
Electricity (location based)	2	kWh	1,354,693.5	287.6	1,134,259.0	219.3	219.3	-24%	8%	-16%
Electricity (market based)	2	kWh	-	-	1,157,170.0	492.0	492.0	-	-	-
Natural Gas	1	kWh	487,499.0	89.3	140,069.0	25.6	25.6	-71%	1%	-71%
Transmission and Distribution Losses	3	kWh	1,354,693.5	25.5	1,157,170.0	20.5	20.5	-20%	1%	-15%
Procurement										
Freight HGV	3	km	-	-	126,291.0	112.5	0.0) –	4%	-
Freight HGV	3	tonne.km	143,981.0	15.5	-	-	0.0	-	-	-
Paper Primary Content	3	tonnes	47.7	43.8	27.1	24.9	0.0	-100%	1%	-43%
Paper Recycled Content	3	tonnes	0.5	0.4	-	-	0.0	-	-	-
Travel										
Fleet Petrol Fuel	1	litres	318,052.3	697.7	260,157.7	562.4	562.4	-19%	20%	-18%
Fleet Diesel Fuel	1	litres	241,824.7	607.5	201,002.2	514.1	514.1	-15%	18%	-17%
Fleet Electric Car	2	km	-	-	161,351.2	7.2	7.2	-	0.3%	-
Air Travel	3	passenger.km	-	-	62,552.0	7.8	7.8	-	0.3%	-
Fleet Electric Car	3	km	-	-	161,351.2	0.7	0.7	· _	0.02%	-
Ferry	3	passenger.km	148.1	0.02	389.5	0.01	0.01	-56%	0.01%	163%
Electric Car	3	km	-	-	241,055.6	12.4	12.4		0.4%	-
Diesel Fuel	3	litres	80,628.5	202.6	104,630.9	267.6	267.6	32%	9%	30%
Commuting Walking	3	km	1,586.4	0	7,828.6	0	0.0	-	0.0%	393%
Commuting Van	3	km	· -	-	28,571.4	6.6	6.6	-	0.2%	-
Commuting Rail	3	passenger.km	272,075.5	9.5	544,137.1	19.2	19.2	102%	1%	100%
Commuting Petrol Car	3	km	3,750,152.0	653.7	1,688,480.0	287.9	287.9	-56%	10%	-55%
Commuting PHEV	3	km	1,017,387.8	98.6	122,228.6	11.4	11.4	-88%	0.4%	-88%
Commuting Hybrid Car	3	km	· · · -	-	122,228,6	14.7	14.7	-	1%	-
Commuting Electric Car	3	km	-	-	24,000.0	1.2	1.2	-	0.04%	-
Commuting EV	3	km	523,923.8	28.7	-	-	0.0	-	-	-
Commuting Diesel Car	3	km	5.334.567.3	898.5	2.477.417.1	423.2	423.2	-53%	15%	-54%
Commuting Bus	3	passenger.km	7,139.0	0.7	52,114.3	5.0	5.0	589%	0.2%	630%
Commuting Bike	3	km	, <u>-</u>	-	10.285.7	0	0.0	-	0.0%	-
Commuting Average Car	3	km	-	-	41,142,9	9.2	9.2	-	0.3%	-
Petrol Fuel	3	litres	38.367.0	84.2	133,176.0	287.9	287.9	242%	10%	247%
Rail Travel	3	passenger.km	266.708.9	9.5	652.085.6	23.1	23.1	144%	1%	144%
Waste					,,					
Landfill	3	tonnes	14.0	6.3	9.5	4.4	4.4	-29%	0.2%	-32%
Recycled	3	tonnes	69.4	1.5	32.0	0.7	0.7	-54%	0.02%	-54%
Water										
Water Supply	3	cubic metres	44 699 0	67	4 383 1	0.7	0.7	-90%	0.02%	-90%
Water Treatment	3	cubic metres	44 699 0	12.2	4 383 1	12	12	-90%	0.04%	-90%
			Location	Based	1,00011				0.0170	0070
Total		tCO_e	Location	3,779.8		2,871.5	2,734 1	-28%		
No employees		Number		880		804	804	2070		
Total per employee		tCO_e		43		36	3.4	-21%		
Total floor space		m ²		14 728 0		14 728 0	14 728	21/0		
Building emissions per m ²		tCO_e		0.03		0.02		-34%		
Dunuing emissions per m-		10020		0.03		0.02	0.02	-34 /0		

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

About this report – General. Office Sites

Company Name	Bowmer & Kirkland
Sector	Construction
Reporting Period	01 September 2021 to 31 August 2022
Year Of Certification	15th
Reporting Boundary	Office Sites: Heage offices, services and workshop; Chester-Le-Street; Rainton Bridge; Glasgow; Manchester; Reading; RWK House and Theale.
Emission sources included	Electricity, T&D Losses, Onsite renewables, Natural Gas, Other Fuels, Water, Waste, Fleet, Business Travel, Commuting, Paper.
Total FTE Employees (annual average no.)	804
Total Internal Floorspace (m ²)	14,728
Data Collection Lead	Daniel Birkinshaw, daniel.birkinshaw@bandk.co.uk, Sustainability Manager
Significant reporting changes	Due to the nature of construction work, some sites closed and some opened during the reporting period.
Baseline Conversion Factor	BEIS 2021
Current Conversion Factor	BEIS 2022
Methodology	We follow the GHG Protocol for Corporate Emission Reporting and The National TOMs Framework for Social Value Reporting. Refer to Planet Mark Code of Practice for detailed information on the methodology and standards used in the preparation of this report
Community Project	Contributions to the Eden Project and to Cool Earth's Asháninka community rainforest project have been made as part of Planet Mark Certification
Prepared by	Ruari Phipps, Sustainability Consultant, Planet Mark
Checked by	Jamie Beevor, Head of Technical, Planet Mark Rima Trofimovaite, Head of Measurement, Planet Mark
Date	2 February 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 - landlord report	Actual meter reads	Your scope 2 electricity emissions are reported in two ways; one is using the location-based method and the other the market-based method. Location-based electricity emissions have been calculated using carbon emission factors for average UK national grid electricity and 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 Apr 2021 to Mar2022 or the residual fuel mix 2021/22 where no information on your specific supplier fuel mix was available. With office sites data deriving from the master tracker utilities tabs. Adair Street has taken the values within the "£" column due to the member confirming these are the consumption values. The sites have been included against the data as per the evidence submission. For these office sites, the residual mix has been placed as the energy supplier.	All sites.
Natural Gas	1	kWh	Primary source - landlord report	Actual meter reads	With office sites data deriving from the master tracker utilities tabs. Adair Street has taken the values within the "£" column due to the member confirming these are the consumption values. The sites have been included against the data as per the evidence submission.	All sites.
Onsite renewables	2	kWh	Secindary source - email	Actual meter reads	An email of the onsite solar power output value at Heage was used as evidence.	All sites.
Water Supply & Treatment	atment 3 m³ Primary source - landlord Actual me		Actual meter reads	Both office sites and construction sites' water has been included following guidance from the member. With office sites data deriving from the master tracker utilities tabs. Adair Street has taken the values within the "£" column due to the member confirming these are the consumption values. The sites have been included against the data as per the evidence submission. Wastewater and treatment have been deemed to be equal to water consumption.	All sites.	

About this report – Caveats (ii). 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 - expense claims	Actual	"Non-fleet" vehicles have been placed under business travel from the evidence file, with mileage being taken. When not stated, the size of the car has been deemed average and relevant to the fuel provided. Travel has been placed under "all sites", this is because they had been classified by regions or sites which we do not feature elsewhere in the analysis, such as "Holdings". As we cannot place travel under regions of sites but only consistently named and specific sites, we ask that in future if it would be possible to place all travel under specific sites, such as the travel in relation to New Bailey A3.	All sites.
Air Travel	3	pkm	Primary source - expense claims	Actual	Air travel has been reclassified regarding the categories of domestic, short haul and long haul. The long haul flight featured within the evidence that had been left blank with the to and from provided has been calculated using our air miles calculator. Travel has been placed under "all sites", this is because they had been classified by regions or sites which we do not feature elsewhere in the analysis, such as "Holdings". As we cannot place travel under regions of sites but only consistently named and specific sites, we ask that in future if it would be possible to place all travel under specific sites, such as the travel in relation to New Bailey A3.	All sites.
Fleet Vehicles	1	km	Primary source - expense claims	Actual	Master tracker data has been ignored with data being taken directly from the evidence files themselves. The lorry data has not been deemed a fleet vehicle due to it being an external contractor. Where fleet fuel was unknown for litres within the submission, diesel has been assumed as per the member's guidance. Van data has been confirmed as litres and not miles. Hybrid vans have been deemed as diesel fuel as per member guidance. With fleet vehicles aside from vans in miles, where the type of fuel is unknown for mileage data, an unknown average has been assumed. Electric vehicles have been deemed to be charged on-site in a 50/50 split. Travel has been placed under "all sites", this is because they had been classified by regions or sites which we do not feature elsewhere in the analysis, such as "Holdings". As we cannot place travel under regions of sites but only consistently named and specific sites, we ask that in future if it would be possible to place all travel under specific sites, such as the travel in relation to New Bailey A3.	All sites.

About this report – Caveats (iii). Office Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Rail Travel	3	pkm	Primary source - expense claims	Actual cost, estimated distance	Additional entries regarding rail travel upon the Eurostar have been included and found within the evidence. Travel has been placed under "all sites", this is because they had been classified by regions or sites which we do not feature elsewhere in the analysis, such as "Holdings". As we cannot place travel under regions of sites but only consistently named and specific sites, we ask that in future if it would be possible to place all travel under specific sites, such as the travel in relation to New Bailey A3.	All sites.
Commuting	3	km	Primary source - commuter survey	Actual	It was assumed for the hybrid/plug-in hybrid electric vehicle category that 50% of the miles were driven in a Hybrid, and 50% in a PHEV.	
Waste Landfill	3	tonnes	Secondary source - data submission report	Unverified	For all sites, it was assumed the non-recycled waste went to landfill. Both office sites and construction sites waste have been included following guidance from the member. With office sites data deriving from the master tracker utilities tabs. The sites have been included against the data as per the evidence submission. When a % of waste end location has been provided next to a value, the waste data has been apportioned accordingly.	All sites.
Waste Recycling	3	tonnes	Primary source - supplier report	Actual	With office sites data deriving from the master tracker utilities tabs. The sites have been included against the data as per the evidence submission. When a % of waste end location has been provided next to a value, the waste data has been apportioned accordingly.	All sites.



About this report – Caveats (iv). Office Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Procurement - Paper	3	tonnes	Primary source - invoices	Actual	Paper data was not split up by site this year, therefore, has been reported under all sites, and as such put in the offices, not the construction sites report. Paper data has been taken directly from the evidence files which provides the direct weight of the paper purchased. This has been accompanied by data from the print room and a PDF. The number of sheets used this year is an estimation, the estimation is 500 sheets per ream and 2500 sheets per box taken from the weights evidence file and pdf file. For an actual read, we would ask for the number of sheets to be recorded within the evidence file in future years.	All sites.
Procurement - courier/freight	3	km	Secondary source - data submission report	Assumed Actual	All journeys were used for Bowmer & Kirkland's transport of goods only, so vehicle kilometres were used as opposed to tonne-kilometres.	All sites.
Headcount		no.	Primary source - note from payroll	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).	All sites.
Floor Area		m²	Secondary source - data submission form	Assumed Actual	None	All sites.
Normalisation					The year-on-year comparison was normalised to exclude emissions from paper, as last year the paper purchase data was split by site, so only the office paper was included in this report. However, this year's paper hasn't been split by site, so it is not possible to only report the office paper here, and thus comparing paper purchased in YE2022 vs YE2021 would not be comparing like-for-like. The same can be applied to Electric cars within fleet and business travel, which has been normalised this year due to it being the first year in being recorded.	All sites.

Sources. Construction Sites

			01 September 2020 2021	01 September 2020 to 31 August 2021		01 September 2021 to 31 August 2022				
Source	Scope	Unit	Amount	tCO₂e	Amount	tCO ₂ e	tCO₂e normalised	% Change in tCO₂e from previous year	% total carbon footprint	% Change in amounts from previous year
Buildings										
Biodiesel HVO	1	litres	-	-	38,333.0	1.4	1.4	-	0.02%	-
Diesel Fuel	1	litres	-	-	2,261,336.7	6,102.9	6,006.1	-	79%	-
Electricity (location based)	2	kWh	6,268,148.4	1,330.9	4,159,572.0	804.4	766.6	-42%	10%	-34%
Electricity (market based)	2	kWh	-	-	4,159,572.0	1,450.5	1,393.3	-	-	-
Gas Oil	1	litres	1,613,433.1	4,450.8	121,976.0	336.5	336.5	-92%	4%	-92%
Natural Gas	1	kWh	1,830,108.0	335.2	1,557,632.7	284.3	280.6	-16%	4%	-15%
Transmission and Distribution Losses	3	kWh	6,268,148.4	117.8	4,159,572.0	73.6	70.1	-40%	1%	-34%
Waste										
Landfill	3	tonnes	16,381.9	7,310.3	17,073.5	21.1	21.1	-100%	0.3%	4%
Recycled	3	tonnes	102,720.7	101.6	97,538.1	96.1	96.1	-5%	1%	-5%
Water										
Water Supply	3	cubic metres	209,375.1	31.2	55,282.2	8.2	7.9	-75%	0.1%	-74%
Water Treatment	3	cubic metres	209,375.1	57.0	55,282.2	15.0	14.4	-75%	0.2%	-74%
			Location	Based						
Total		tCO ₂ e		13,734.7		7,743.4	7,600.6	-45%		
No. employees		Number		880		804	804			
Total per employee		tCO ₂ e		15.6		9.6	9.5	-39%		
Total floor space		m²		-		14,728.0	14,728			
Building emissions per m ²		tCO ₂ e		-		0.5	0.5	0%		

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

Construction Sites

Company Name	Bowmer & Kirkland Construction Sites
Sector	Construction
Reporting Period	01 September 2021 to 31 August 2022
Year Of Certification	15th
Reporting Boundary	Construction Sites: BKBS; Key Property Solutions; East Midlands; North East; North Midlands; North West; Scotland; West Midlands; Southern Region.
Emission sources included	Electricity, T&D Losses, Natural Gas, Site Fuel, Water, Waste.
Total FTE Employees (annual average no.)	804
Total Internal Floorspace (m²)	14,728
Data Collection Lead	Daniel Birkinshaw, <u>daniel.birkinshaw@bandk.co.uk</u> , Sustainability Manager
Significant reporting changes	Due to the nature of construction work, some sites closed and some opened during the reporting period.
Baseline Conversion Factor	BEIS 2021
Current Conversion Factor	BEIS 2022
Methodology	We follow the GHG Protocol for Corporate Emission Reporting and The National TOMs Framework for Social Value Reporting. Refer to Planet Mark Code of Practice fo detailed information on the methodology and standards used in the preparation of this report
Community Project	Contributions to the Eden Project and to Cool Earth's Asháninka community rainforest project have been made as part of Planet Mark Certification
Prepared by	Ruari Phipps, Sustainability Consultant, Planet Mark
Checked by	Jamie Beevor, Head of Technical, Planet Mark Rima Trofimovaite, Head of Measurement, Planet Mark
Date	2 February 2023

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 - landlord report	Actual meter reads	Your scope 2 electricity emissions are reported in two ways; one is using the location-based method and the other is the market-based method. Location-based electricity emissions have been calculated using carbon emission factors for average UK national grid electricity and 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 Apr 2021 to Mar2022 or the residual fuel mix 2021/22 where no information on your specific supplier fuel mix was available. The sites have been included against the data as per the evidence submission. For these office sites, the residual mix has been placed as the energy supplier.	All sites.
Natural Gas	1	kWh	Primary source - landlord report	Actual meter reads	The sites have been included against the data as per the evidence submission.	All sites.
Other Fuel	1	litres	Primary source - landlord report	Actual meter reads	Includes HVO fuel, red diesel and diesel. Units provided taken in regards to the fuel consumption.	All sites.
Water Supply & Treatment	3	m³	Primary source - landlord report	Actual meter reads	The sites have been included against the data as per the evidence submission. Wastewater and treatment have been deemed to be equal to water consumption.	All sites.

About this report – Caveats (ii). Construction Sites

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Waste Landfill	3	tonnes	Secondary source - data submission report	Unverified	For all sites, it was assumed the non-recycled waste went to landfill. The sites have been included against the data as per the evidence submission. When a % of waste end location has been provided next to a value, the waste data has been apportioned accordingly.	All sites.
Waste Recycling	3	tonnes	Primary source - supplier report	Actual	The sites have been included against the data as per the evidence submission. When a % of waste end location has been provided next to a value, the waste data has been apportioned accordingly.	All sites.
Headcount		no.	Primary source - note from payroll	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).	All sites.
Floor Area		m²	Secondary source - data submission form	Assumed Actual	None	All sites.
Normalisation					Year-on-year comparison was normalised to exclude YE2022 emissions from Scottish construction sites as they were not reported on in YE2021.	All sites.



About this report. Data Quality.

Data quality score

The data quality score is based on the 'Data Quality Matrix' in the Planet Mark Code of Practice and provides an indication of data assurance when using information in this report in your business.

	01 September 2020 to 31 August 2021	01 September 2021 to 31 August 2022	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	2	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	14 out of 20	15 out of 20	

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

- Label sites consistently across all evidence and spreadsheets, giving each site a unique code to help with identification.
- State how non-recycled waste was processed to avoid the need for assumptions.



Recommendations. APPENDIX

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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 <u>Planet Mark website</u> for companies that are currently engaged on reducing their carbon footprint.



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