

Business Certification

London Pensions Fund Authority (LPFA)

YEAR 5

01 April 2023 to 31 March 2024



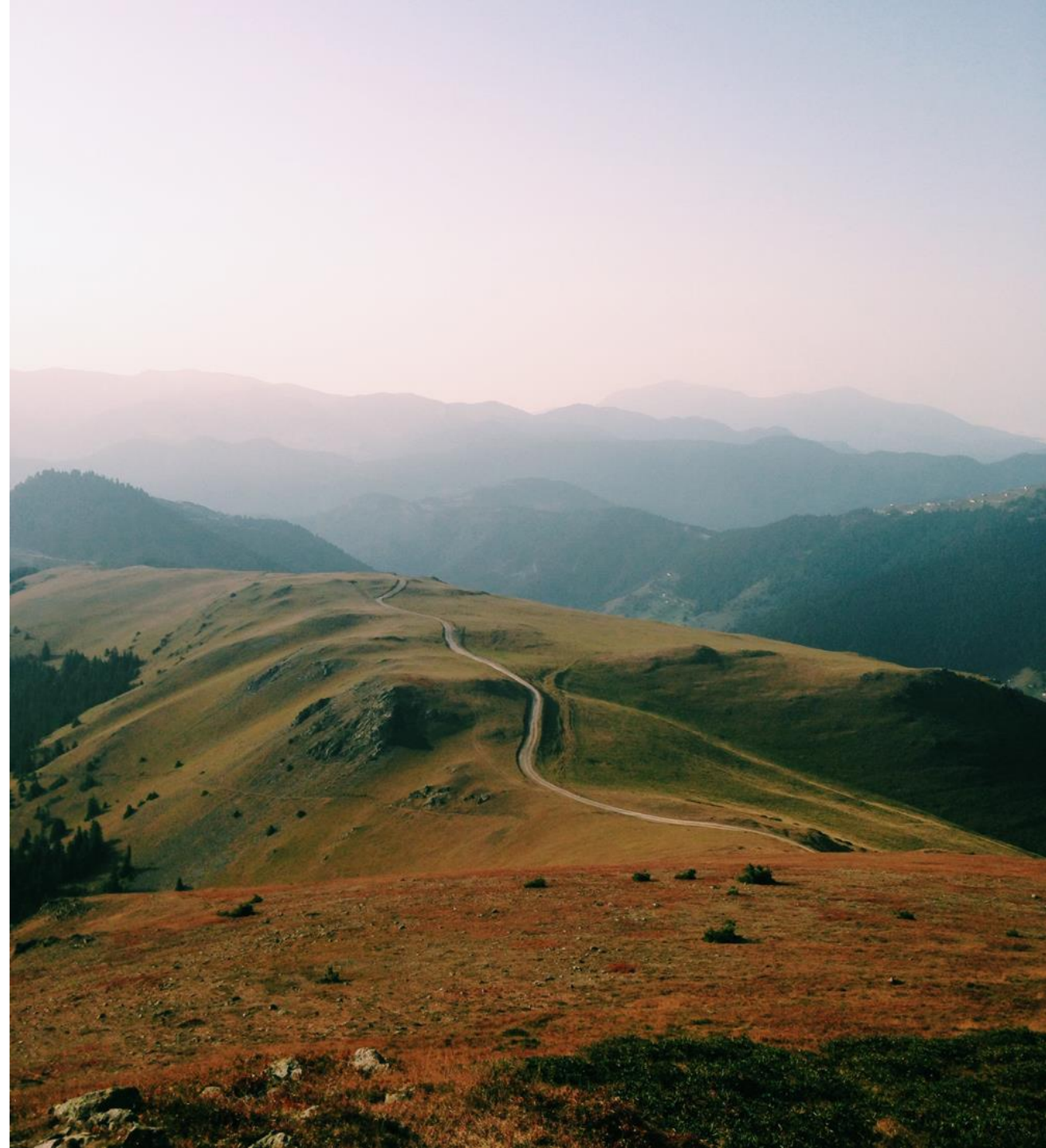
Measure



Engage



Communicate



Executive Summary

Carbon Footprint

London Pensions Fund Authority (LPFA) Group has measured all material Scope 1 & 2 emissions and some core scope 3 emissions that are within easy operational control (cat.3, 5, 6) through Planet Mark's annual Business Certification. The Planet Mark measurement methodology is fully aligned to Greenhouse Gas (GHG) Protocol and all data is verified with evidence provided by London Pensions Fund Authority (LPFA).

Scope 1 Natural Gas emissions account for the largest proportion (51.8%) of the measured market-based carbon footprint, followed by Scope 3 Transmission and Distribution Losses (22.9%).

Overview

Reporting year:

01 April 2023 to 31 March 2024

Reporting Boundary:

L P F A, 169 Union Street, London, SE10LL

Key figures (market-based):

Measured Carbon footprint: tCO₂e): 3.0

Per employee (tCO₂e): 0.2

Data quality (Scope 1 & 2): 12 out of 16

Data quality (Scope 3): 12 out of 16

Measured emissions:

Scope 1: natural gas

Scope 2: Electricity

Scope 3:

Cat. 3. Fuel & energy related activities

Cat. 5. Waste

Cat. 6. Business travel

Planet Mark Certification

London Pensions Fund Authority (LPFA) Group has been certified with The Planet Mark for the year ending March 2024 based on a 29.6% absolute reduction and a 26.3% per employee reduction in market-based scope 1 and 2 emissions compared to the previous year. It is committed to reporting and reducing emissions annually while also engaging its supply chain and improving Scope 3 data quality. This is London Pensions Fund Authority (LPFA) Group's 5th year of business carbon footprint reporting and certification to The Planet Mark.

Comparison to previous year

London Pensions Fund Authority (LPFA) Group's measured market-based footprint in the year ending March 2024 was 3.0 tCO₂e, a decrease of 83.4% from the year ending March 2023. London Pensions Fund

Authority (LPFA) Group is procuring 100% renewables electricity at some sites, which results in lower market-based emissions.

Next Steps: More Scope 3 to uncover.

London Pensions Fund Authority (LPFA) Group has not yet measured a full Scope 3 emissions portfolio and are expecting that once measured, the current proportion (48.2%) is likely to increase. It has been shown that Scope 3 emissions can account for 60-70% of a company's total emissions portfolio but can, on occasions, make up to 99%.

With support from Planet Mark, business operations will be mapped against the 15 categories of Scope 3 to identify the relevant categories still to be included in the Scope 3 footprint. These are expected to be:

- Cat. 1: Purchased Goods & Services
- Cat. 2: Capital Goods
- Cat. 3: Energy related activities
- Cat. 4: Upstream transportation & distribution
- Cat. 7: Employee Commuting



PlanetMark

It's more than a mark



Updates to Planet Mark Business Certification

To ensure that Planet Mark Business Certification is the best first step towards the ultimate goal of reaching net zero, we have made the following improvements to our Certification:

- Members are now required to make an annual 5% reduction in Scope 1 & 2 emissions to recertify (from year 3 onwards). As part of Business Certification, we will continue to measure 'core' Scope 3 emissions sources, but Members will not certify on reductions to core Scope 3 emissions.
- By 2030, Members must identify all material emission sources and measure a full inventory carbon footprint (Scope 1, 2 and extended Scope 3 emissions). Measuring a full organisational boundary is essential to progress on the journey to net zero.
- As per the GHG Protocol it is important to report carbon emissions using both a location-based and market-based methodology, and we will continue to summarise accordingly. We have previously adopted the location-based methodology as the principle display mechanism, however, moving forwards we will switch to showing the market-based methodology as our default. We have done this to ensure that as Members switch to renewable energy contracts, the associated reductions are clearly evidenced.
- Scope 3 data collection is typically found to be more challenging than Scope 1 and 2, therefore, to help understand and develop your measurement journey Members will now receive two separate data quality scores when they achieve Certification: one for Scope 1 & 2 emissions and one for Scope 3 emissions.



Measured carbon *EMISSIONS* Market *BASED*

3.0
tCO₂e measured emissions

Measured emissions equivalent to
3 flights from London to New York

0.2
tCO₂e per employee



Buildings

2.2 tCO₂e

Used enough electricity to power **10** UK homes for one year



Travel

0.6 tCO₂e

Travelled **0.2** times around the world



Waste

N/A



Water

0.04 tCO₂e

22 litres per employee per day



Procurement

0.2 tCO₂e

172 sheets of paper used per day



Homeworking

3.8 tCO₂e

Used enough energy to power **1** UK home for one year

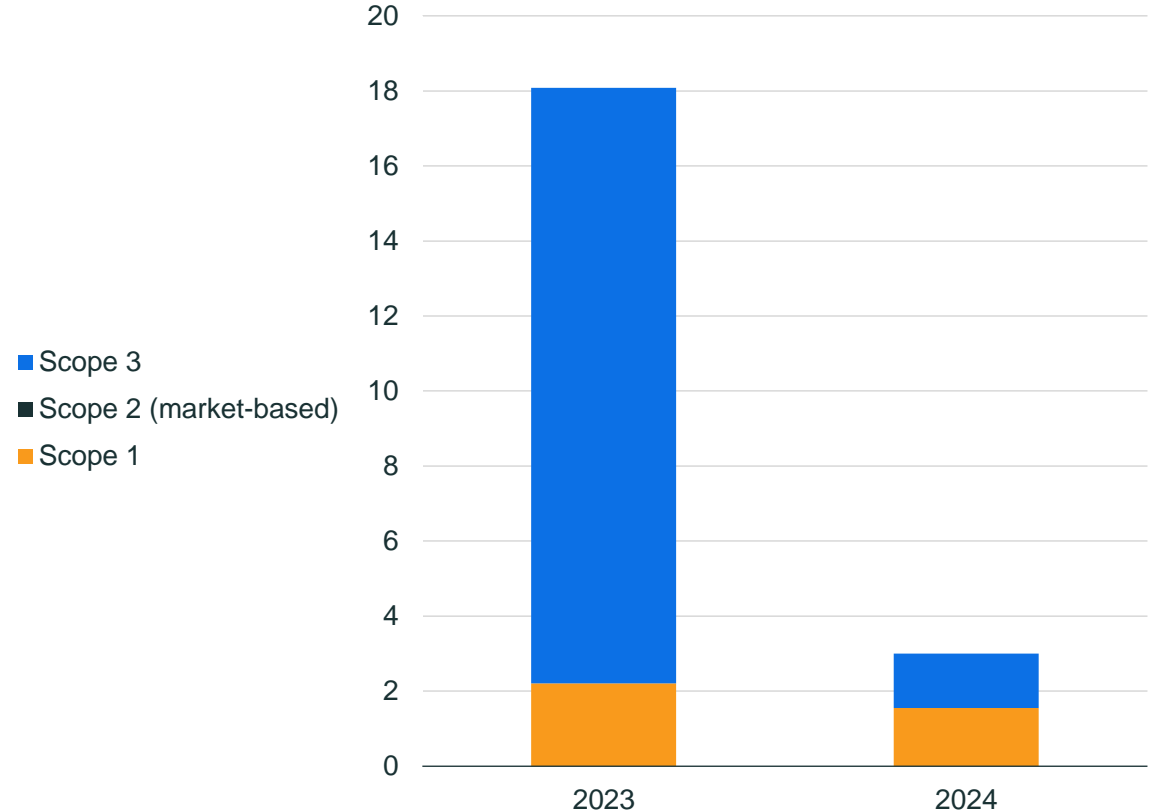


Measured carbon footprint By Scope.

Market *BASED*

Scope	2023	2024
Scope 1	2.2	1.6
Scope 2 (market-based)	0	0
Scope 3	15.9	1.4
Total (market-based)	18.1	3.0

Measured carbon emissions by scope for year ending 2024, tCO₂e



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



Step one.

MEASURE





Measured carbon footprint.

Market *BASED*

Reporting year:

01 April 2023 to 31 March 2024

Reporting Boundary:

L P F A, 169 Union Street, London, SE1 0LL

Emissions measured:

Electricity, T&D Losses, Natural Gas, Water, Business Travel, Paper, Homeworking (not included in total footprint)

Highlights:

Carbon footprint (tCO₂e): **3.0**

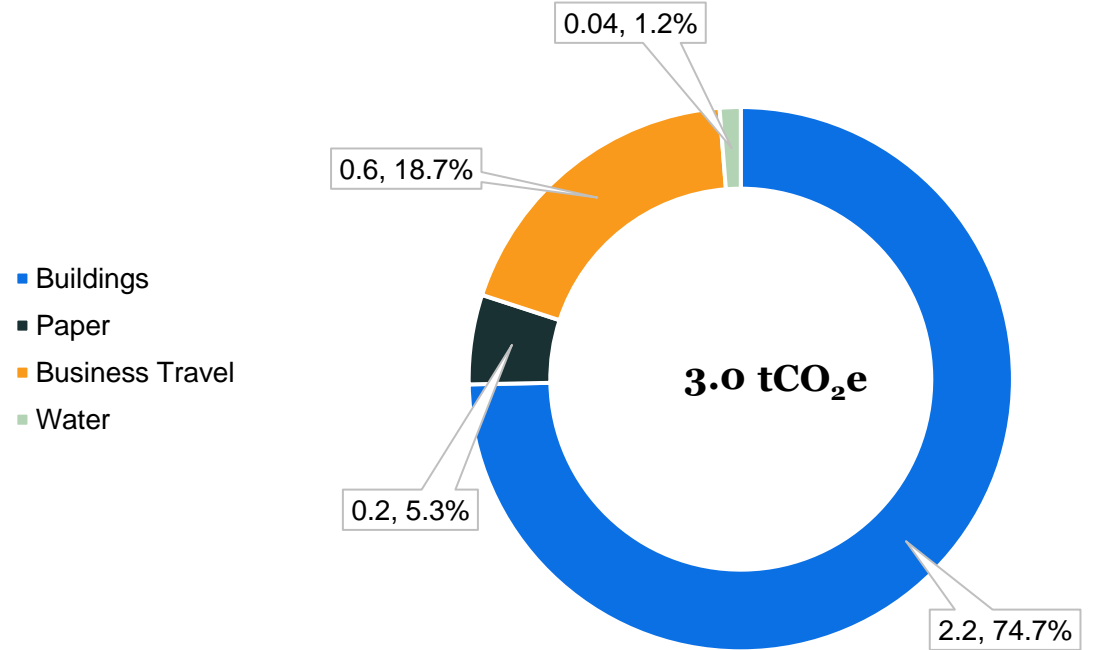
Per employee (tCO₂e): **0.2**

Next reduction target: **5%**

Data quality score Scope 1 & 2: **12 out of 16**

Data quality score Scope 3: **12 out of 16**

Carbon footprint by emission source for year ending 2024, 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).



Measured carbon footprint.

Location *BASED*

Reporting year:

01 April 2023 to 31 March 2024

Reporting Boundary:

L P F A, 169 Union Street, London, SE1 0LL

Emissions measured:

Electricity, T&D Losses, Natural Gas, Water, Business Travel, Paper, Homeworking (not included in total footprint)

Highlights:

Carbon footprint (tCO₂e): **10.9**

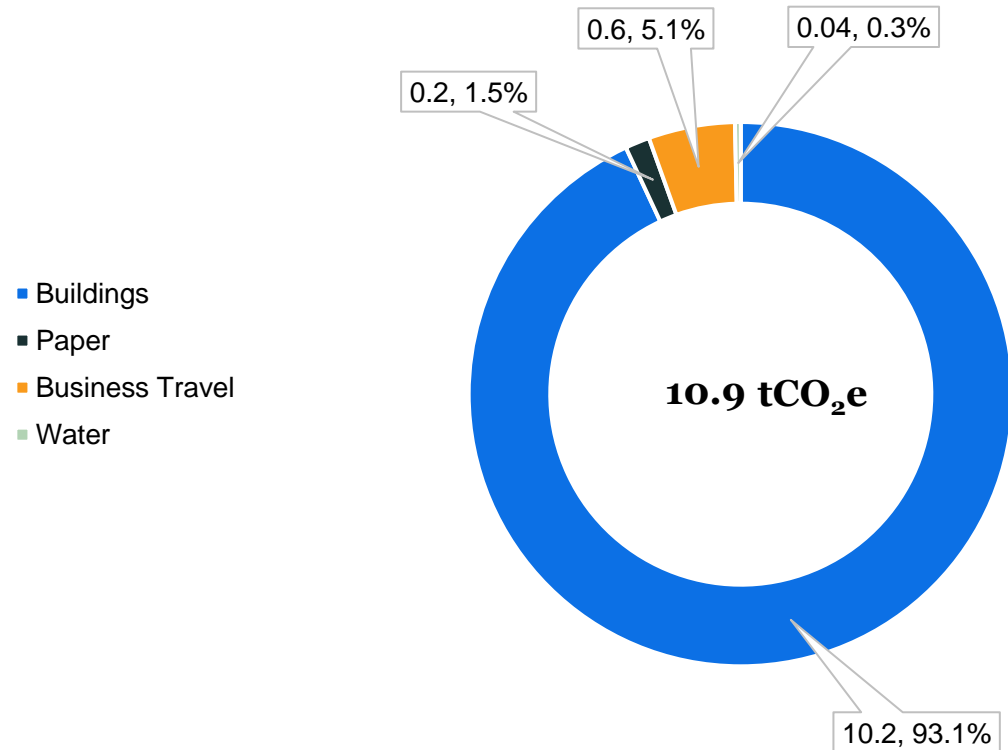
Per employee (tCO₂e): **0.6**

Next reduction target: **5%**

Data quality score Scope 1 & 2: **12 out of 16**

Data quality score Scope 3: **12 out of 16**

Carbon footprint by emission source for year ending 2024, 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).

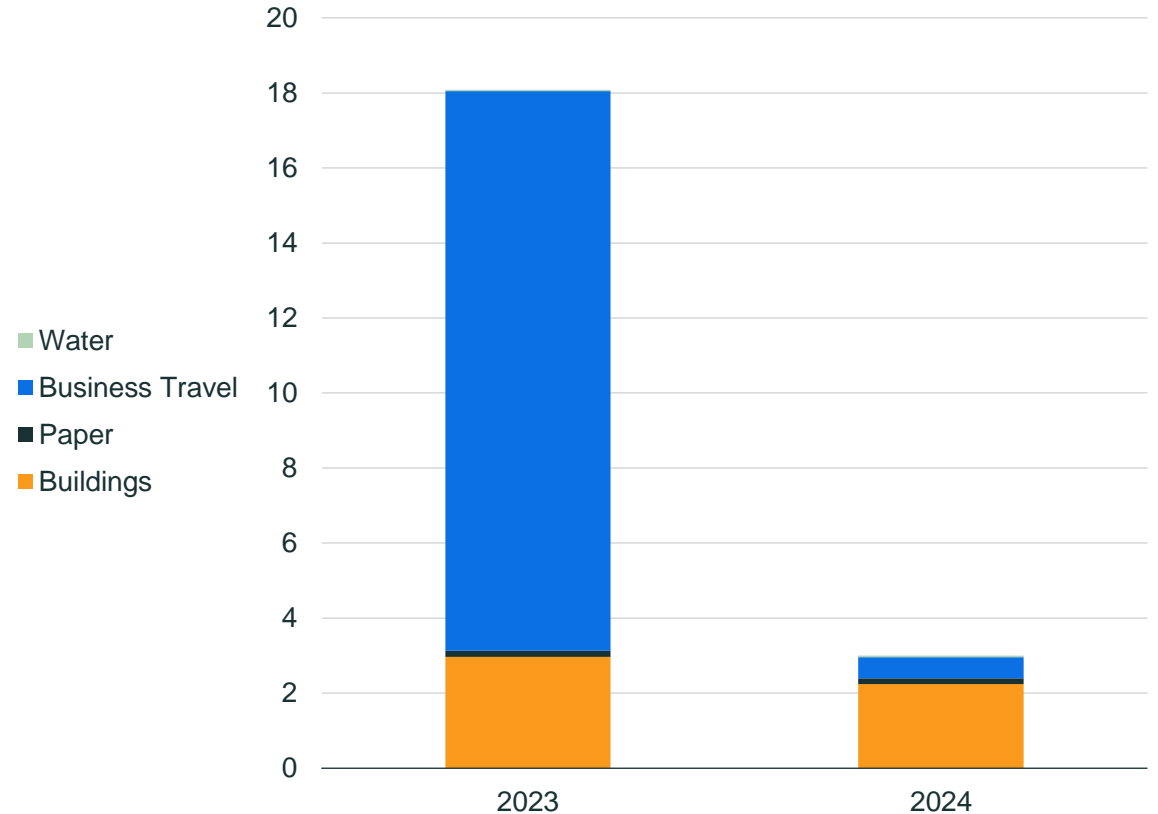


Measured carbon footprint.

Yearly *COMPARISON*

Source Category	2023	2024
Buildings	3.0	2.2
Paper	0.2	0.2
Business Travel	14.9	0.6
Water	0.04	0.04
Total (market-based)	18.1	3.0

Carbon footprint by emission source for year ending 2023 and 2024, tCO₂e



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



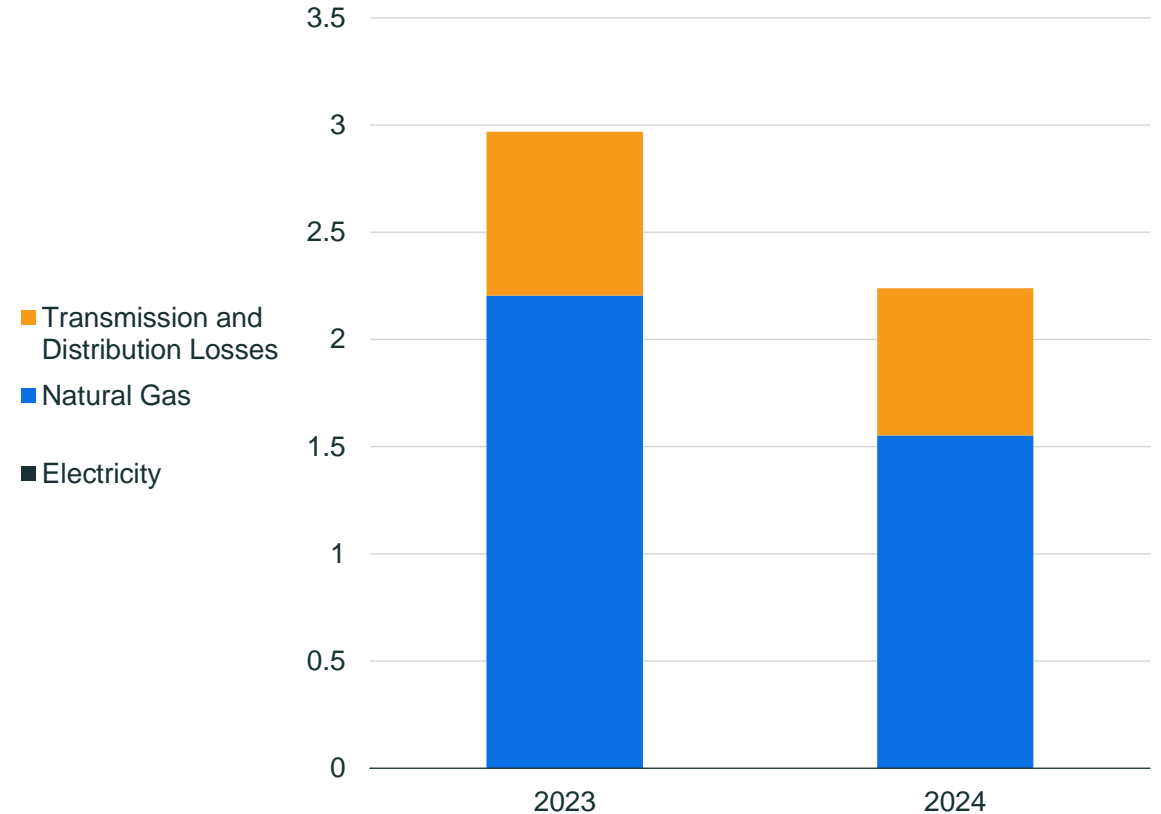
Carbon footprint.

BUILDINGS

Buildings emissions have reduced by 24.6%

Buildings	2023	2024
Electricity	0.0	0.0
Natural Gas	2.2	1.6
Transmission and Distribution Losses	0.8	0.7
Total (market-based)	3.0	2.2

Buildings emissions for year ending 2023 and 2024, tCO₂e



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



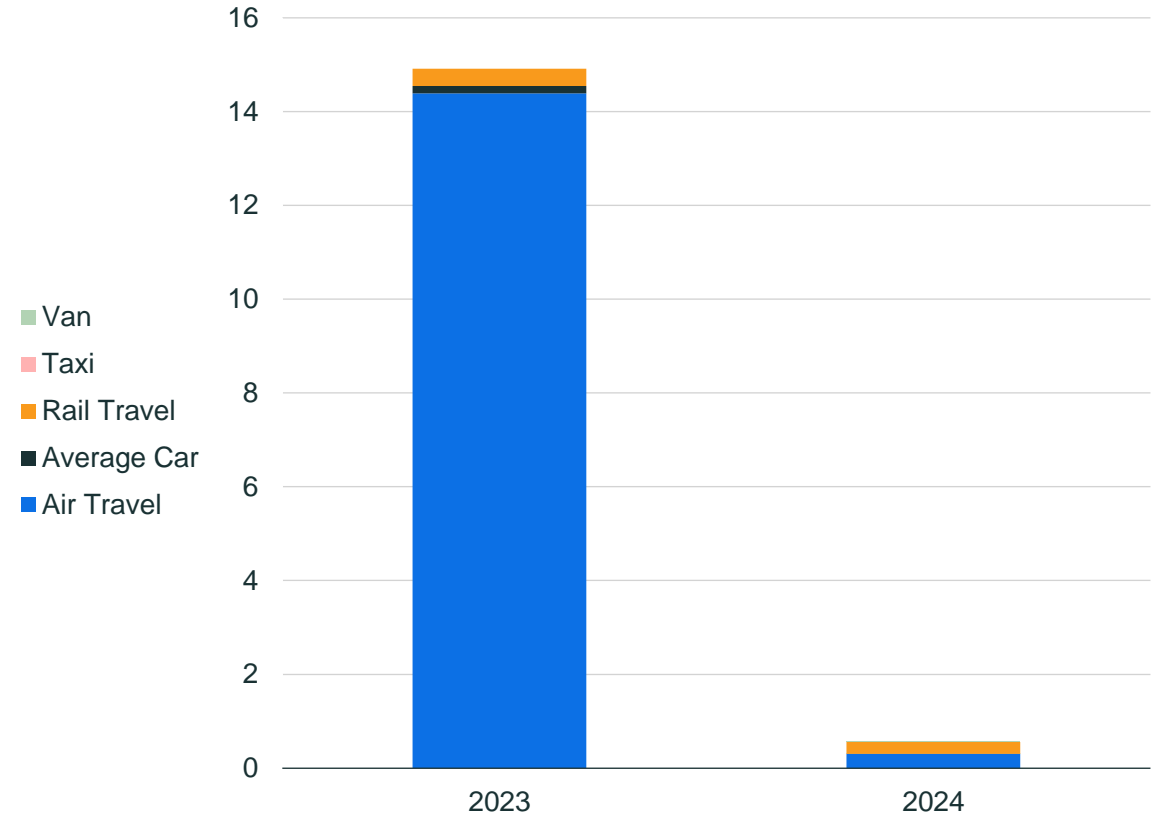
Carbon footprint.

Business TRAVEL

Despite some new modes of transport, business travel emissions have reduced significantly this year, largely due to a huge reduction in air travel.

Business Travel	2023	2024
Air Travel	14.4	0.3
Average Car	0.2	0.001
Rail Travel	0.4	0.2
Taxi	-	0.003
Van	-	0.004
Total	14.9	0.6

Business travel emissions for year ending 2023 and 2024, tCO₂e



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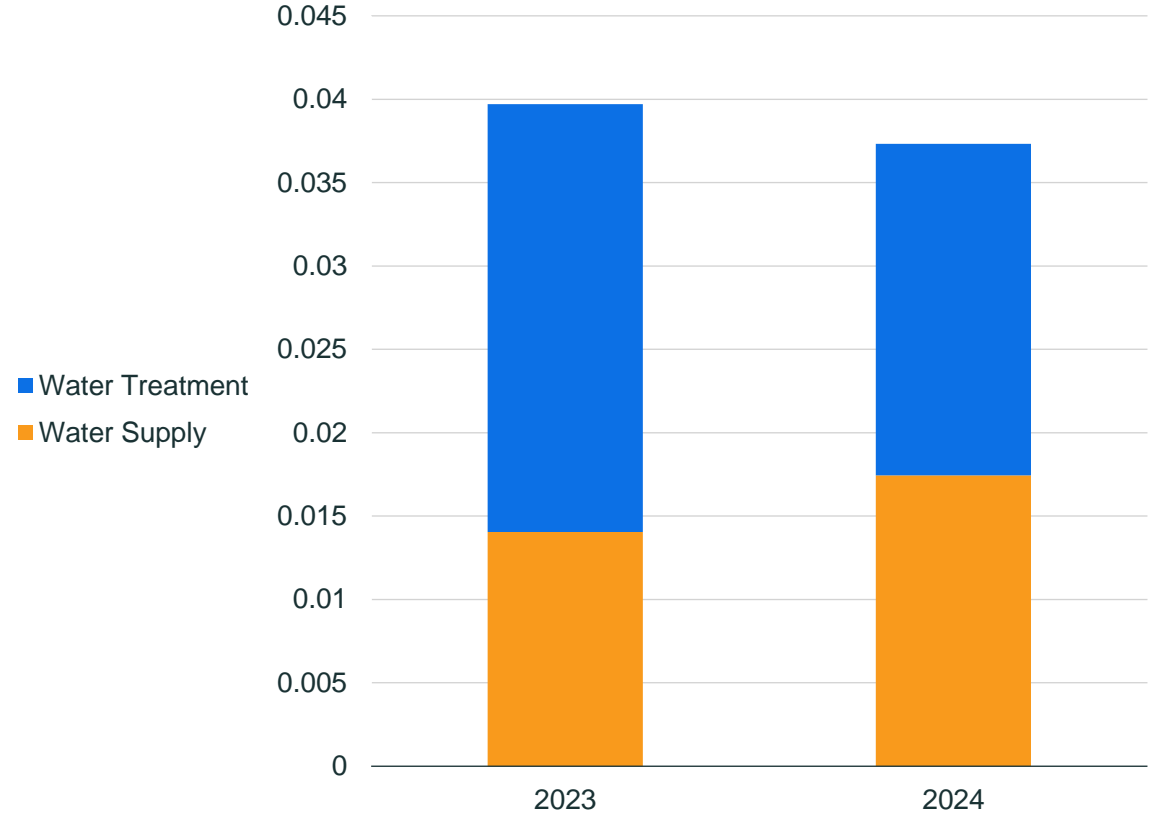
Carbon footprint.

WATER

Water emissions have reduced by 6%

Water	2023	2024
Water Supply	0.01	0.02
Water Treatment	0.03	0.02
Total	0.04	0.04

Water emissions for year ending 2023 and 2024, tCO₂e



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



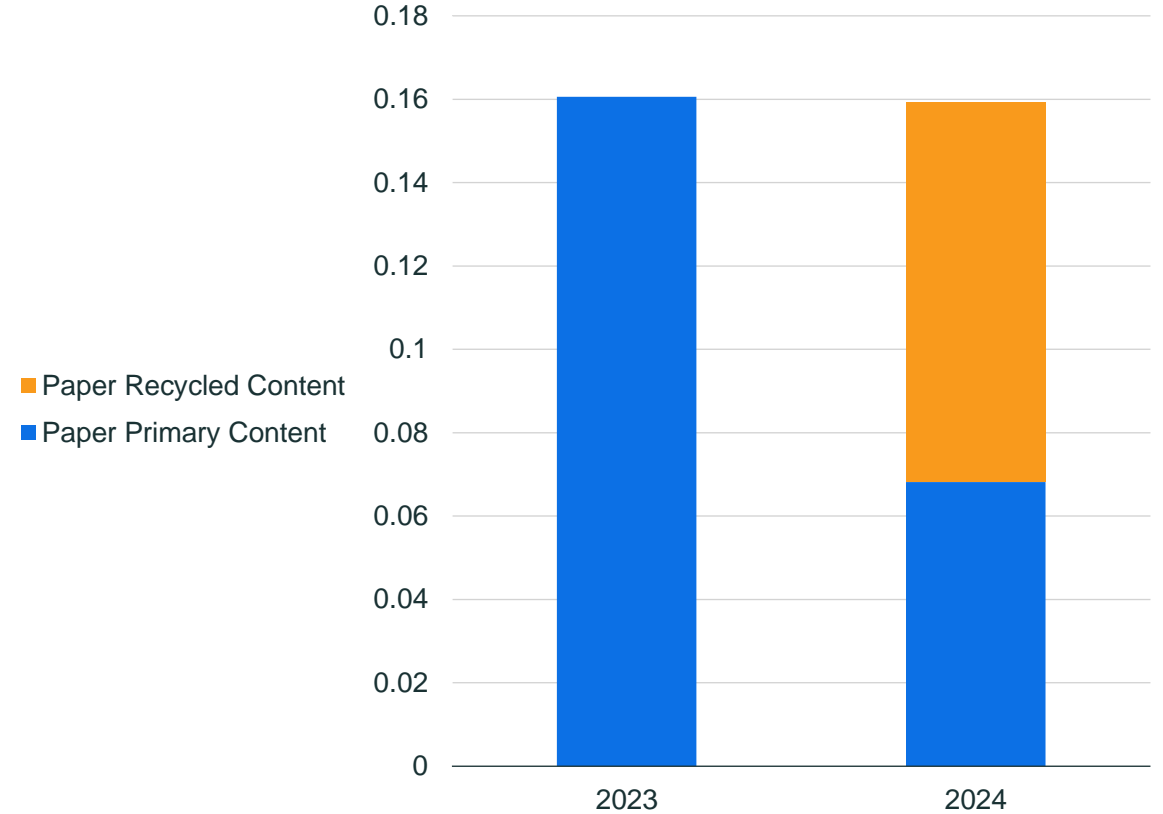
Carbon footprint.

PROCUREMENT

Procurement emissions have reduced by 0.8%

Paper	2023	2024
Paper Primary Content	0.2	0.1
Paper Recycled Content	-	0.1
Total	0.2	0.2

Procurement emissions for year ending 2023 and 2024, tCO₂e



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



Carbon footprint.

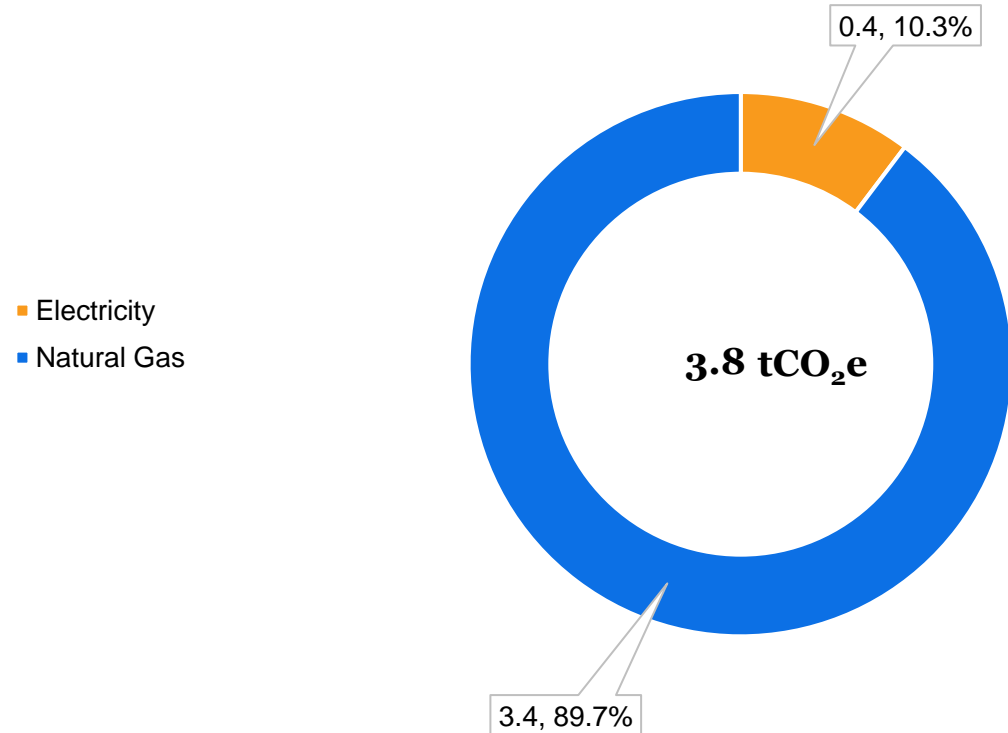
HOME OFFICE

Notes:

Due to the uncertainties surrounding Home Office emissions, and the fact that commuting emissions have not been calculated as part of your footprint, 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 ₂ e	%
Electricity	0.4	10.3
Natural Gas	3.4	89.7
Total	3.8	100.0

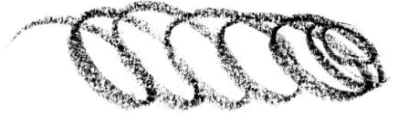
Homeworking emissions for year ending 2024, tCO₂e



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



Looking ahead. Targets for next year.



Measured carbon
footprint
market-based

3.0 tCO₂e



Carbon
reduction target (5%
in scope 1&2)

0.1 tCO₂e



Carbon reduction
per employee (5% in
scope 1&2)

0.0002 tCO₂e



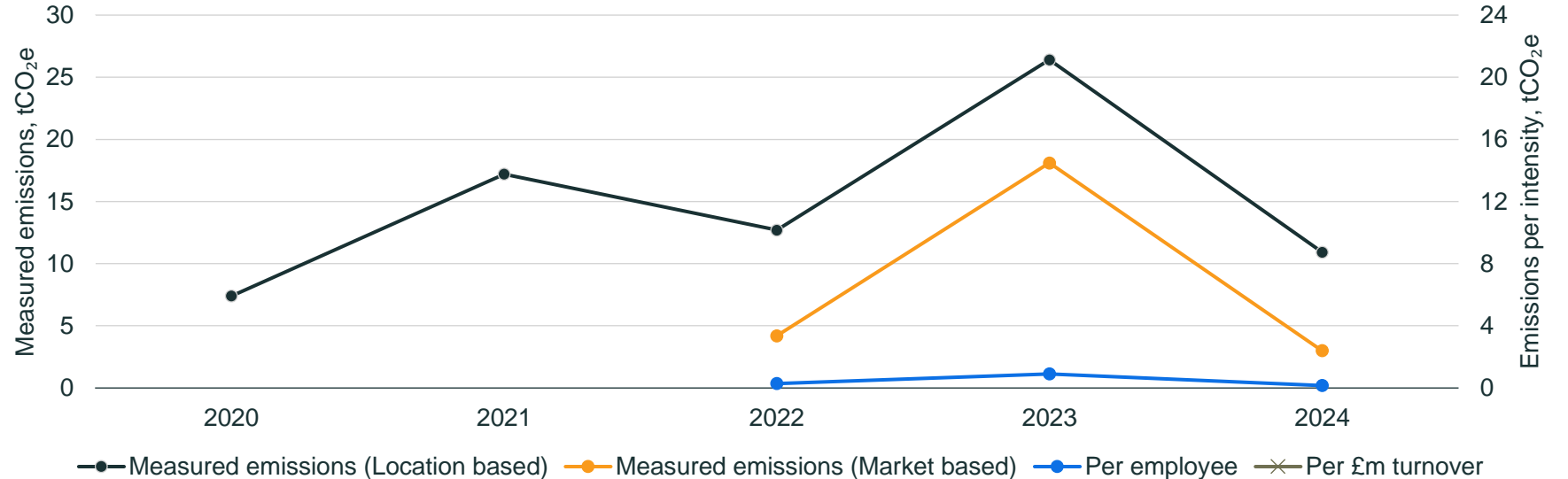


Historical Carbon Emissions

Reported carbon emissions year ending 2020 to 2024

Note:

This graph shows absolute reported carbon emissions for each year the Planet Mark Business Certification was measured using the location-based and market-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.



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.

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
Sustainability Plan Workshop	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.
Net Zero Carbon Essentials	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.
Net Zero Masterclass	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.
Business Sustainability Essentials	A three-hour CPD accredited workshop covering the basics of business sustainability and the role your employees can adopt in driving change from within.
Supplier Engagement workshop	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.



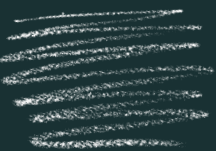
The Eden Project

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.





Step three.

COMMUNICATE





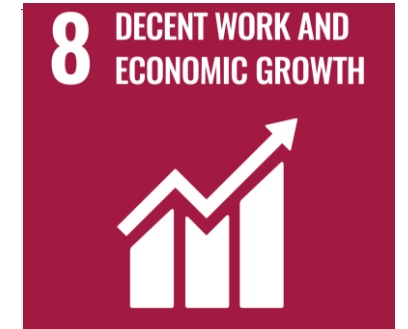
Communicating your international influence.

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.



6.3 - 100% 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



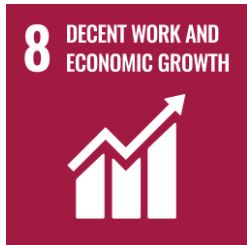
7.3 - Reduction in energy use
7.3 - Reduction in electricity use
7.2 - 100% of energy demand met by renewable energy



11.6 - Measured carbon emissions
11.6 - Reduction in absolute carbon emissions
11.6 - Reduction in travel emissions
11.4 - Donation to the Eden Project



14.3 - Reduction in absolute carbon emissions



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



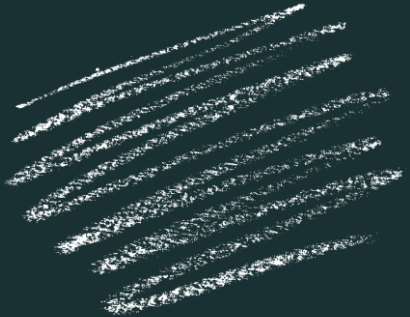
12.6 - Measured carbon emissions
12.1 - Reduction in absolute carbon emissions



15.5 - Reduction in absolute carbon emissions
15.2 - 38% 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 April 2022 to 31 March 2023					01 April 2023 to 31 March 2024				
Source	Scope	Unit	Amount	tCO ₂ e	Amount	tCO ₂ e	% Change in tCO ₂ e from previous year	% total carbon footprint	% Change in amounts from previous year
Buildings									
Electricity (market based)	2	kWh	43,243.6	0	38,294.9	0	-	0.0%	-11%
Electricity (location based)	2	kWh	43,243.6	8.4	38,294.9	7.9	-5%	-	-11%
Natural Gas	1	kWh	12,075.2	2.2	8,486.6	1.6	-30%	52%	-30%
Transmission and Distribution Losses	3	kWh	43,243.6	0.8	38,294.9	0.7	-10%	23%	-11%
Procurement									
Paper Primary Content	3	tonnes	0.2	0.2	0.1	0.1	-58%	2%	-57%
Paper Recycled Content	3	tonnes	-	-	0.1	0.1	-	3%	-
Travel									
Air Travel	3	passenger.km	65,079.9	14.4	2,838.9	0.3	-98%	10%	-96%
Average Car	3	km	896.7	0.2	3.2	0.001	-100%	0.02%	-100%
Rail Travel	3	passenger.km	10,419.8	0.4	7,008.7	0.2	-33%	8%	-33%
Taxi	3	km	-	-	16.1	0.003	-	0.1%	-
Van	3	km	-	-	16.1	0.004	-	0.1%	-
Water									
Water Supply	3	cubic metres	94.3	0.01	98.7	0.02	24%	1%	5%
Water Treatment	3	cubic metres	94.3	0.03	98.7	0.02	-23%	1%	5%
Market Based									
Total		tCO₂e		18.1		3.0	-83%		
No. employees		Number		19.9		19.2			
Total per employee		tCO₂e		0.9		0.2	-83%		
Total floor space		m ²		242.0		242.0			
Building emissions per m²		tCO₂e		0.01		0.01	-25%		
Location Based									
Total		tCO₂e		26.4		10.9	-59%		
No. employees		Number		19.9		19.2			
Total per employee		tCO₂e		1.3		0.6	-57%		
Total floor space		m ²		242.0		242.0			
Building emissions per m²		tCO₂e		0.05		0.04	-10%		

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.

Company Name	London Pensions Fund Authority (LPFA)
Sector	Financial services
Reporting Period	01 April 2023 to 31 March 2024
Year Of Certification	5th
Reporting Boundary	L P F A, 169 Union Street, London, SE1 0LL
Emission sources included	Electricity, T&D Losses, Natural Gas, Water, Business Travel, Paper, Homeworking (not included in total footprint)
Total FTE Employees (annual average no.)	19
Total Internal Floorspace (m²)	242
Data Collection Lead	Monika Takacs-Domingues, monika.takacs-domingues@lpfa.org.uk Facilities and Office Manager
Significant reporting changes	None
Baseline Conversion Factor	BEIS 2022
Current Conversion Factor	DESNZ 2023
Methodology	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.
Community Project	Contributions to the Eden Project have been made as part of Planet Mark Certification.
Prepared by	Annabel Jarvis, Junior Data Analyst, Planet Mark
Checked by	Jamie Beevor, Head of Technical, Planet Mark Alex Smith, Technical Consultant, Planet Mark
Date	26 June 2024



About this report – Caveats (i).

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Electricity	2 and 3	kWh	Secondary source - data submission	Actual and estimated meter reads	<p>The floorspace of the LPFA offices is assumed at 242 square metres so the total usage provided has been adjusted to reflect that.</p> <p>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).</p> <p>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 100% renewables as per your data submission (as no information on your specific supplier fuel mix was available).</p>	L P F A, 169 Union Street, London, SE1 0LL
Natural Gas	1	kWh	Secondary source - data submission	Actual and estimated meter reads	The floorspace of the LPFA offices is assumed at 242 square metres so the total usage provided has been adjusted to reflect that.	L P F A, 169 Union Street, London, SE1 0LL
Water Supply & Treatment	3	m ³	Secondary source - data submission	Actual and estimated meter reads	Floorspace of building is 10,986m ² and LPFA office is 242m ² . Water usage portioned out accordingly and % to sewer has been assumed 100% based off of last year.	L P F A, 169 Union Street, London, SE1 0LL
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>	L P F A, 169 Union Street, London, SE1 0LL

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).



About this report – Caveats (ii).

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Private Vehicles Used for Business	3	km	Secondary source - data submission	Actual	None	L P F A, 169 Union Street, London, SE1 0LL
Air Travel	3	pkm	Secondary source - data submission	Actual	None	L P F A, 169 Union Street, London, SE1 0LL
Rail Travel	3	pkm	Secondary source - data submission	Actual	None	L P F A, 169 Union Street, London, SE1 0LL
Taxi Travel	3	km	Secondary source - data submission	Actual	None	L P F A, 169 Union Street, London, SE1 0LL
Procurement - Paper	3	tonnes	Secondary sources - data submission and invoices	Mixed	None	L P F A, 169 Union Street, London, SE1 0LL
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).	L P F A, 169 Union Street, London, SE1 0LL

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).



About this report – Caveats (iii).

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Turnover		£m	Primary source - note from finance director	Assumed Actual	None	L P F A, 169 Union Street, London, SE1 0LL
Floor Area		m ²	Secondary source - data submission form	Assumed Actual	None	L P F A, 169 Union Street, London, SE1 0LL

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).



About this report.

Data Quality Score for Scope 1&2 emissions.

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.

Definition

Relevance of boundary	3	Boundary accurately reflects the majority of the organisation's scope 1 and 2 carbon footprint for the studied period (e.g. at least 75% of organisational scopes 1 and 2 activity included).
Data completeness	3	12 months of data provided for most sources measured (e.g. at least 75%).
Transparency	3	Majority disclosure of assumptions and/or some original evidence provided (e.g. transparency on the source of at least 75% of data submitted).
Data accuracy	3	Use of primary data sources and minimal estimated data for at least 75% of sources measured.
Consistency	3	Largely consistent or improved methods, boundary and data completeness with supporting evidence of changes made.

Total score 12 out of 16

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

- Please let us know of any apportionment that is required
- Where possible providing evidence to support the data submission



About this report.

Data Quality Score for Scope 3 emissions.

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.

Definition

Relevance of boundary	3	Boundary accurately reflects the majority of the organisation's scope 3 carbon footprint for the studied period (e.g. 75% of material scope 3 categories included).
Data completeness	3	At least 67% of data provided for most categories measured (e.g. at least 75%).
Transparency	3	Majority disclosure of assumptions and/or some original evidence provided (e.g. transparency on the source of at least 75% of data submitted).
Data accuracy	3	Use of actual data for the majority of categories with limited estimated data (e.g. at least 75% actual data).
Consistency	3	Largely consistent or improved methods, boundary and data completeness with supporting evidence of changes made.
Total score	12 out of 16	

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

- Where possible please link all business travel in data submission with the evidence file name



Market-based methodology.

What is market-based carbon footprint measurement?

The market-based method was introduced in 2015 in order to allow companies to reflect the emissions from the electricity that they have specifically chosen to procure or generate on-site, which in most cases will be different from the average emissions of the electricity that is generated by the local grid.*

If you have a green tariff:

Different electricity suppliers (and different tariffs from the same electricity supplier) may have different greenhouse gas emissions attributed to them depending on the mix of generators that they source electricity from, and they have to declare the fuel mix of their electricity supplies to Ofgem on an annual basis.

Your electricity supplier may choose to invest in new renewable generation capacity of its own or contract directly with an existing renewable generator via a mechanism known as a Power Purchase Agreement (PPA). Under a PPA the supplier commits to purchasing electricity produced by the renewable generator for a long period, providing certainty for the generator and a good price for the supplier.

A more common approach to green tariffs is for electricity suppliers to purchase electricity from the wholesale market (which means that it has been generated by a range of sources including fossil fuel generators) and then purchase and retire an equivalent number of certificates known as REGOs (Renewable Energy Guarantees of Origin). This type of green tariff is usually described as being “REGO-backed”. **These REGO-backed green tariffs would be eligible for zero emissions under the market-based method, however we recommend that our members seek out high quality green tariffs which go beyond minimum standards and actively support the deployment of additional, new renewables generation capacity.**

If your electricity supply is not a 100% renewable, then under the market-based approach, we use the emission factor based on the tariff or the supplier’s fuel mix disclosure declaration. In some cases, this will be lower than the grid average emission factor used in the market-based approach. If no tariff or supplier-specific emission factor is available, then an emission factor based on the residual fuel mix is used. This emission factor is higher than the grid average emission factor as the residual fuel mix is made up of all fossil fuel and nuclear generation along with the renewable generation which does not have a retired REGO associated with it. This results in market-based carbon footprint being higher than location-based.

If you have on-site renewables:

If your renewables installation is not supported by the Feed-In Tariff (FiT) or if you retired REGOs equivalent to the amount of electricity consumed from an on-site renewable installation, you are eligible for zero emissions for the generated electricity which you consume on-site under both the market-based and location-based methods. Electricity exported to the grid is excluded and does not contribute to a reduction in emissions.

Planet Mark members with FiT-supported renewables installations (the FiT ran in the UK from April 2010 to March 2019) who have not registered for, claimed and retired REGOs for the generation cannot claim the zero carbon electricity (please refer to Ofgem rules). In this case the average grid emission factor is applied to consumption of on-site renewable generation under the location-based method and the residual fuel mix emission factor is applied under the market-based method. It is possible to register a FiT-supported renewable installation with Ofgem and retire the associated REGOs and in this case a zero emission factor would be applied to consumption of on-site renewable generation in both the location-based and market-based methods.

A REGO (Renewable Energy Guarantees of Origin) is a certificate which is issued by Ofgem to a renewable generator for each MWh (megawatt-hour) of renewable electricity that they produce.

* https://ghgprotocol.org/sites/default/files/standards/Scope%202%20Guidance_Final_Sept26.pdf#page=28



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

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