PlanetMark

Business Certification

Archwood Limited

YEAR 3

01 October 2022 to 30 September 2023

Measure

Engage

Communicate

Measured carbon EMISSIONS

571.2
tCO_2e measured emissions

Measured emissions equivalent to
505 flights from London to New York

5.5
tCO_2e per employee

Buildings

289.4 tCO_2e

Used enough electricity to power **426** UK homes for one year

Travel

253.4 tCO_2e

Travelled **38** times around the world

Waste

27.2 tCO_2e

Produced waste that weighs the same as **100** London buses

Water

0.3 tCO_2e

33 litres per employee per day

Procurement

0.8 tCO_2e

897 sheets of paper used per day

Homeworking

2.7 tCO_2e

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

Step one.

MEASURE

Measured carbon footprint.
Location BASED

Reporting year:
01 October 2022 to 30 September 2023

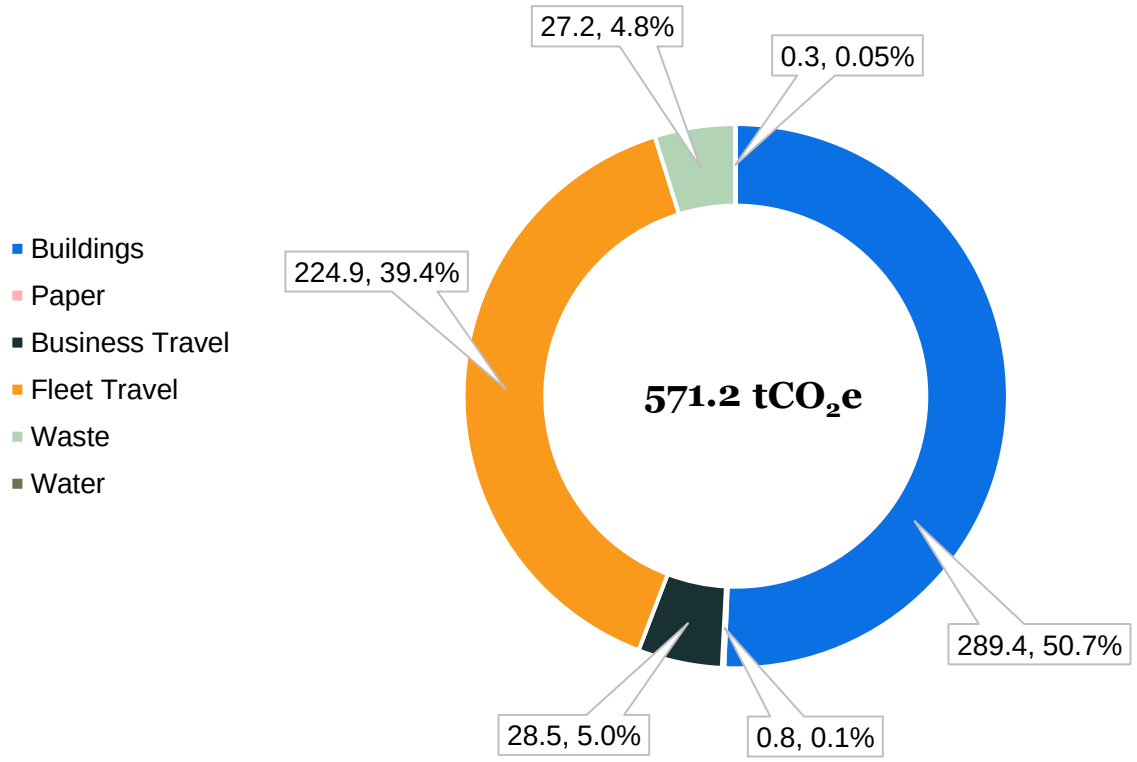
Reporting Boundary:
Chirk and Livingston Sites

Emissions measured:
Electricity, T&D Losses, On-Site Renewables, Water, Fleet, Business Travel, Waste, Paper, Biomass, LPG, Homeworking (not included in total footprint)

Highlights:

Carbon footprint (tCO_2e):	**571.2**
Per employee (tCO_2e):	**5.5**
Next reduction target:	**5%**
Data quality score:	**17 out of 20**

Carbon footprint by emission source for year ending 2023, 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).

Measured carbon footprint.
Market *BASED*

Reporting year:
01 October 2022 to 30 September 2023

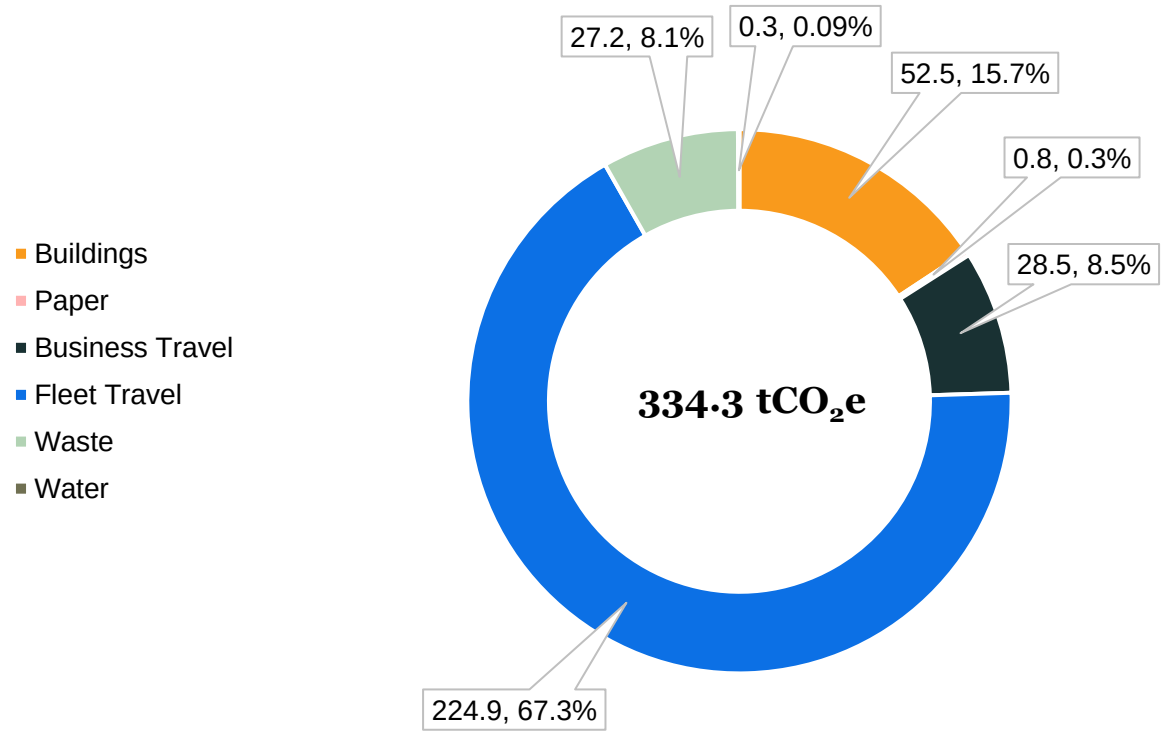
Reporting Boundary:
Chirk and Livingston Sites

Emissions measured:
Electricity, T&D Losses, On-Site Renewables, Water, Fleet, Business Travel, Waste, Paper, Biomass, LPG, Homeworking (not included in total footprint)

Highlights:

Carbon footprint (tCO_2e):	**334.3**
Per employee (tCO_2e):	**3.2**
Next reduction target:	**5%**
Data quality score:	**17 out of 20**

Carbon footprint by emission source for year ending 2023, 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).

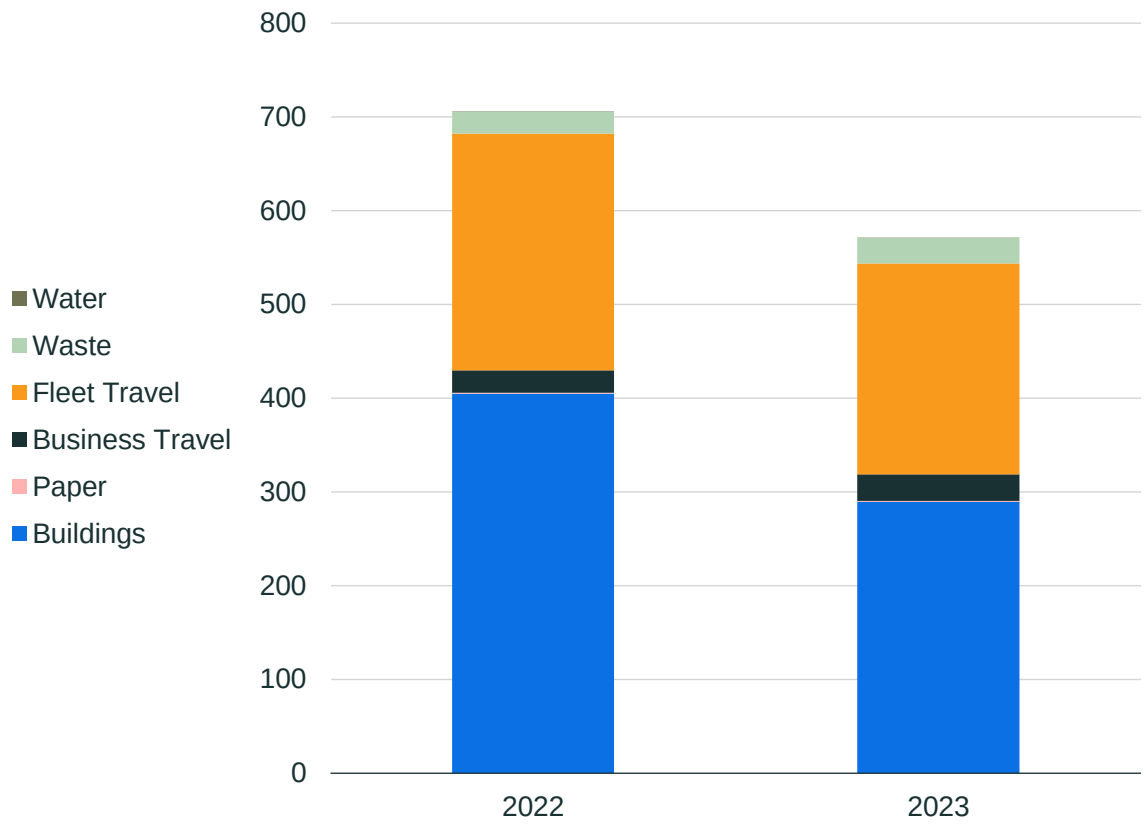
Measured carbon footprint.

Yearly COMPARISON

Archwood Limited's year-over-year measured carbon footprint fell by 19.1% in YE2023. This was predominantly driven by emissions falls in the company's two largest emissions categories – Buildings and Fleet Travel. YE2023 also saw emissions from Business Travel and Waste increase by 19.2% and 15.7% respectively.

Source Category	2022	2023
Buildings	404.6	289.4
Paper	1.0	0.8
Business Travel	23.9	28.5
Fleet Travel	252.8	224.9
Waste	23.5	27.2
Water	0.3	0.3
Total	**706.0**	**571.2**

Carbon footprint by emission source for year ending 2022 and 2023, tCO_2e



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

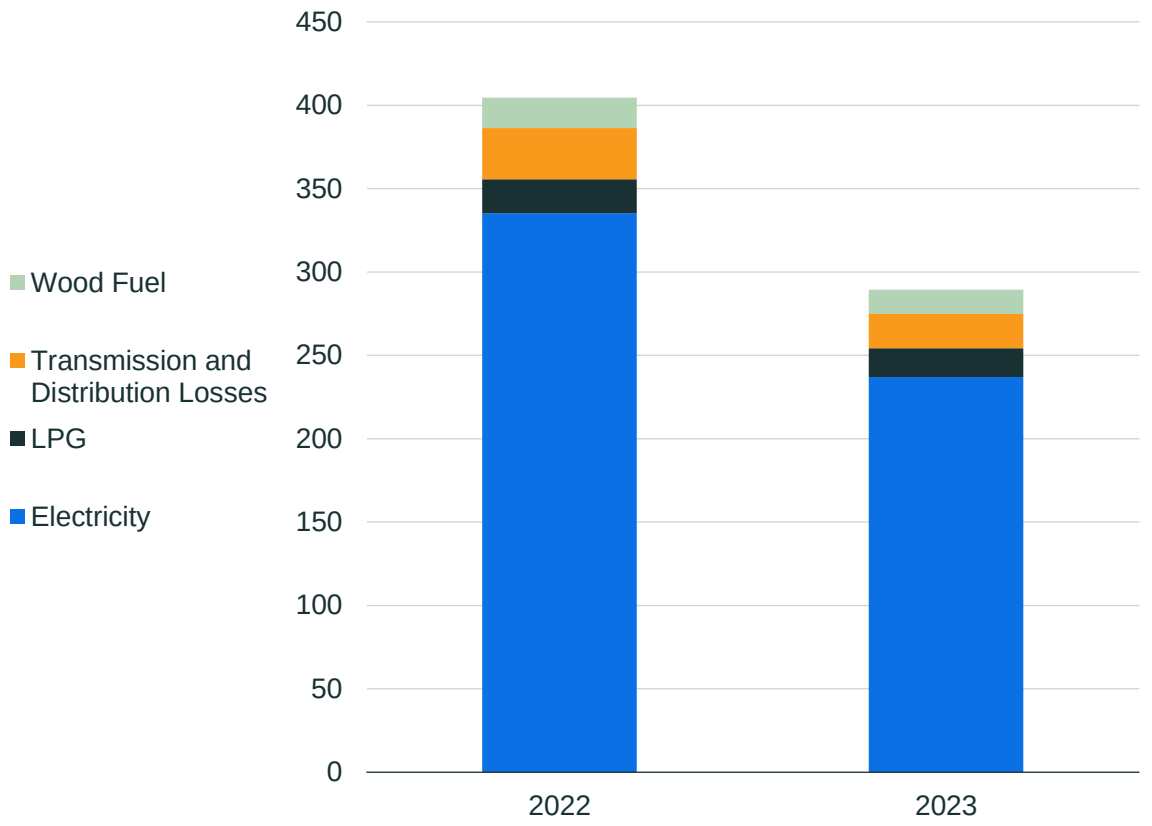
Carbon footprint.

BUILDINGS

Emissions from Electricity remained by far the most significant contributor to Archwood Limited's Building-related emissions (81.9%), despite a reduction (29.3%) in Electricity emissions between YE2022 and YE2023. LPG and Wood Fuel use (which is used to power the Biomass Boiler) saw decreases in their emissions, of 15.1% and 19.8% respectively.

Buildings	2022	2023
Electricity	335.2	236.9
LPG	20.5	17.4
Transmission and Distribution Losses	30.7	20.5
Wood Fuel	18.3	14.7
Total	**404.6**	**289.4**

Buildings emissions for year ending 2022 and 2023, tCO_2e



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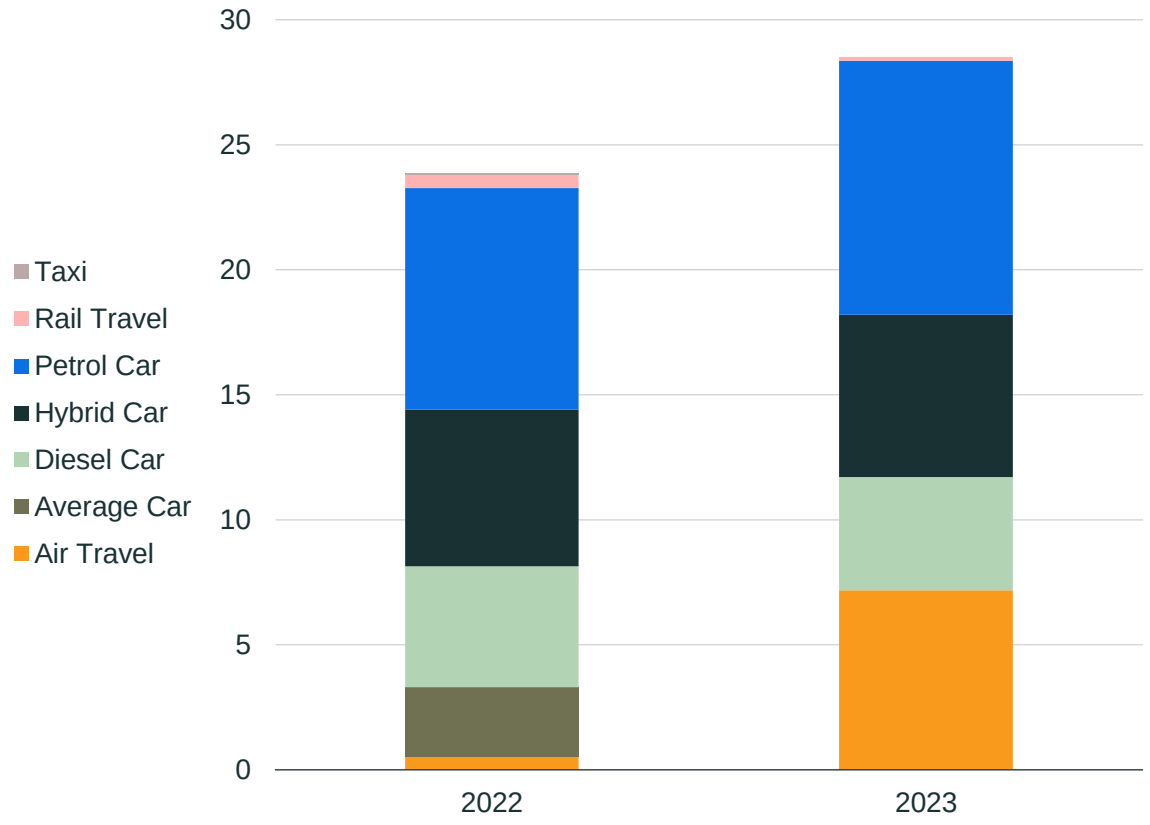
Carbon footprint.
Business TRAVEL

Business Travel-related emissions made up 5.0% of Archwood Limited's measured carbon footprint in YE2023. Of this, emissions from Petrol Cars were the most significant contributor of emissions to this category (35.8%). Although emissions from Air Travel only comprised 25.3% of Business Travel-related emissions, emissions from this source rose significantly when compared to YE2022.

Business Travel	2022	2023
Air Travel	0.5	7.2
Average Car	2.8	-
Diesel Car	4.8	4.5
Hybrid Car	6.3	6.5
Petrol Car	8.8	10.2
Rail Travel	0.5	0.2
Taxi	0.1	-
Total	**23.9**	**28.5**

Business travel emissions for year ending 2022 and 2023, tCO_2e



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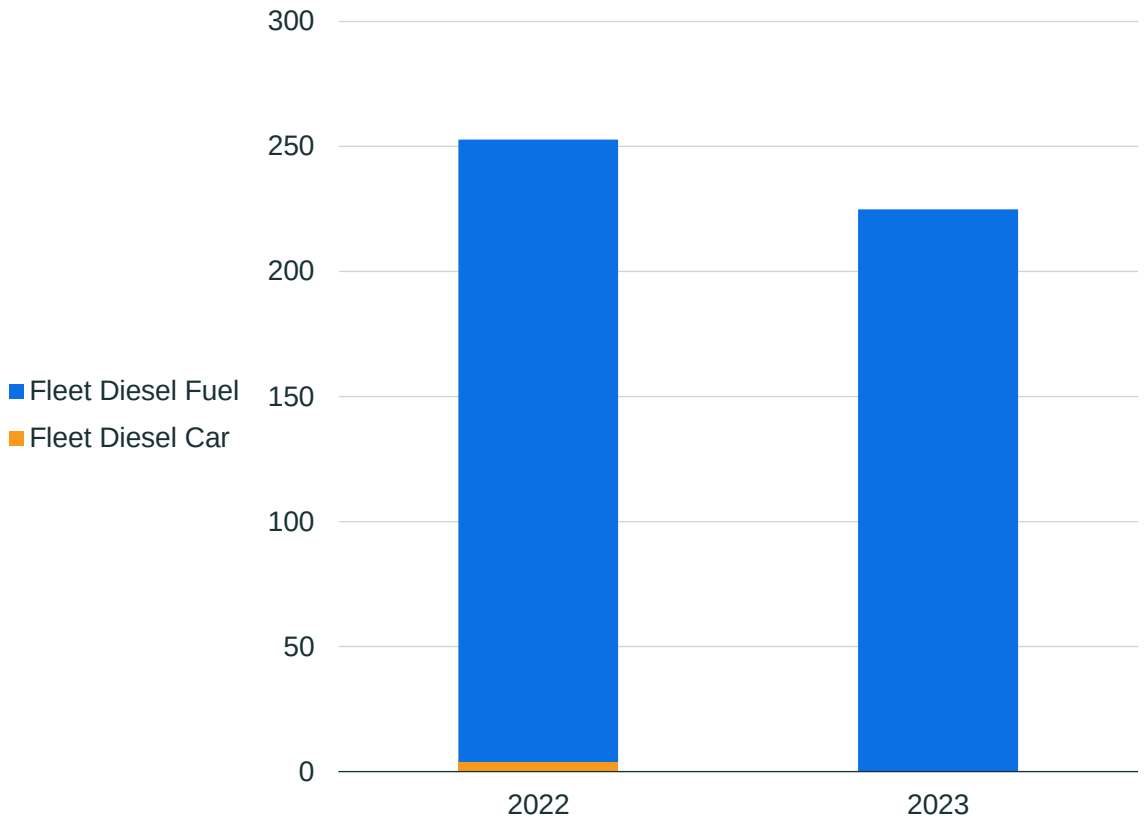
Carbon footprint.

Fleet TRAVEL

The removal of two Fleet Vehicles contributed to an 11.0% emissions reduction in this category during YE2023. All Fleet emissions were related to Diesel Fuel, and emissions from this category were the second largest contributor to Archwood Limited's YE2023 measured carbon footprint.

Fleet Travel	2022	2023
Fleet Diesel Car	3.9	-
Fleet Diesel Fuel	248.9	224.9
Total	**252.8**	**224.9**

Fleet travel emissions for year ending 2022 and 2023, tCO_2e



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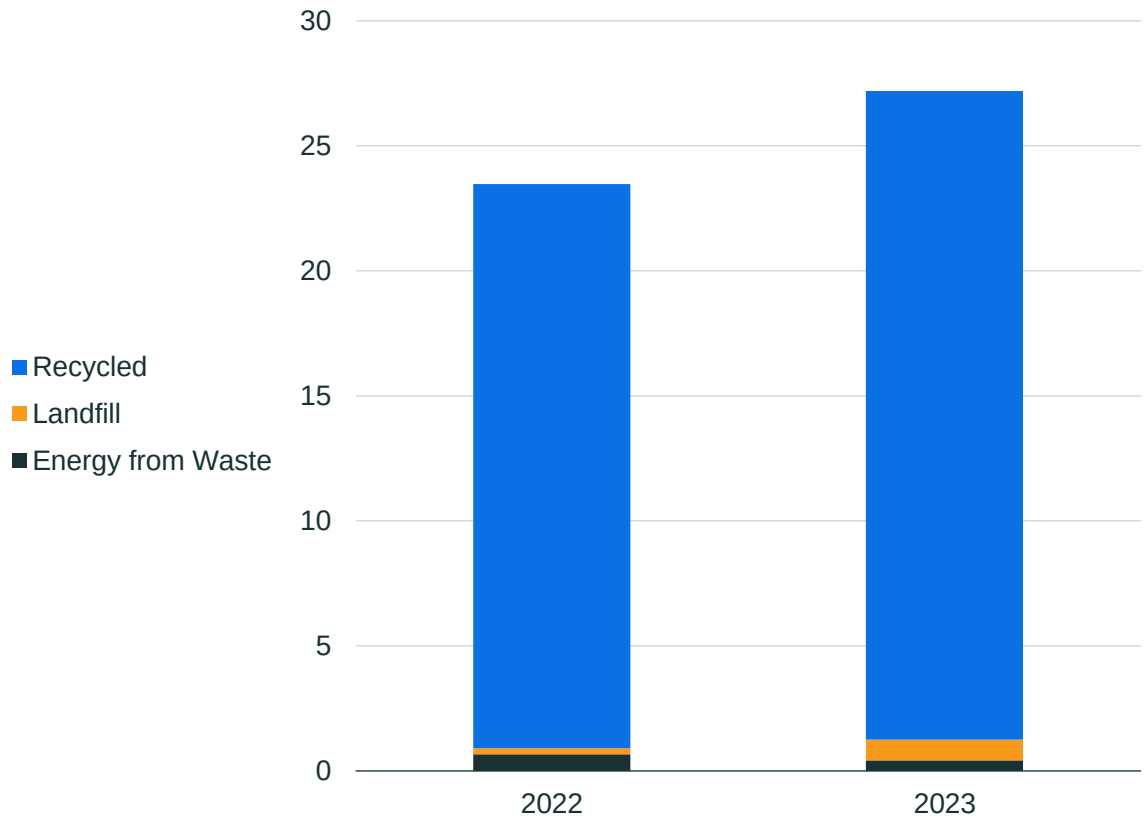
Carbon footprint.

WASTE

As with YE2022, the vast majority (95.2%) of Archwood Limited's Waste-related emissions came from Recycling, with emissions from Landfill and Energy from Waste making up the remainder.

Waste	2022	2023
Energy from Waste	0.7	0.4
Landfill	0.2	0.8
Recycled	22.6	25.9
Total	**23.5**	**27.2**

Waste emissions for year ending 2022 and 2023, tCO_2e



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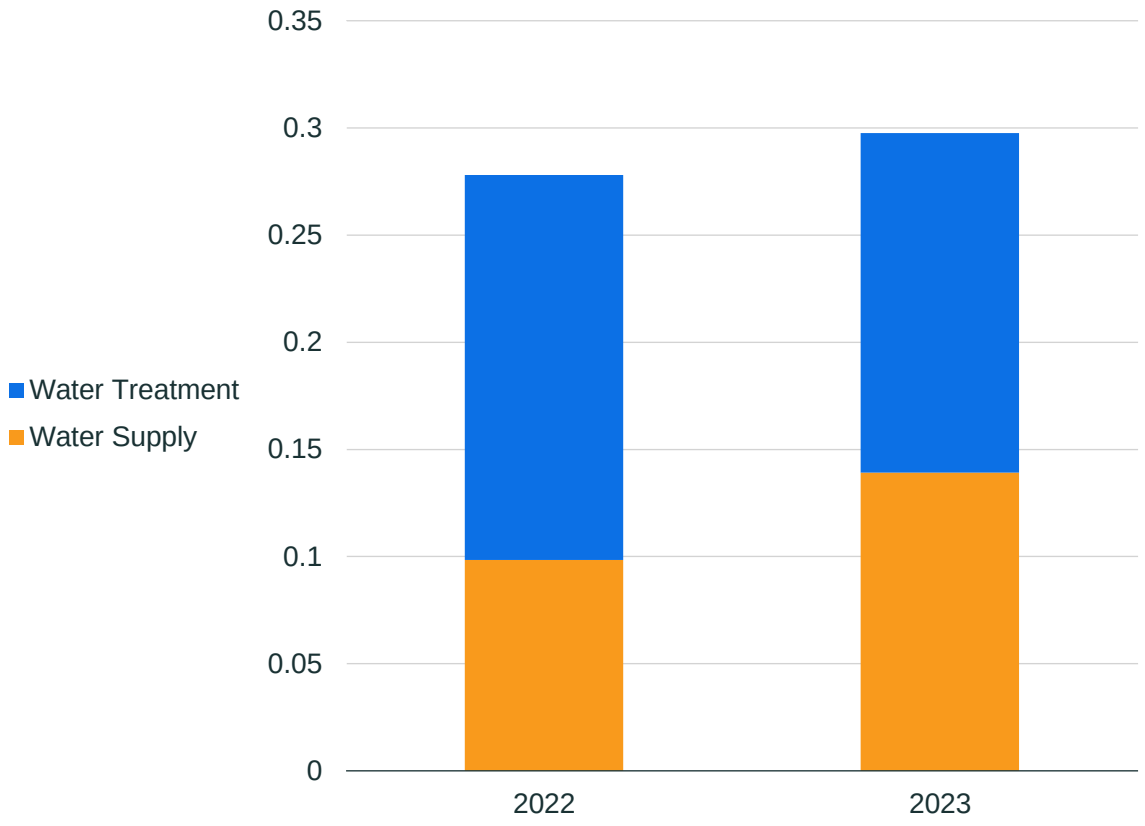
Carbon footprint.

WATER

Water-related emissions consist of Water Supply (or Water Use) and Water Treatment (or Sewerage). Emissions from this category only made up a very small part (0.05%) of Archwood Limited's YE2023 measured carbon footprint.

Water	2022	2023
Water Supply	0.1	0.1
Water Treatment	0.2	0.2
Total	**0.3**	**0.3**

Water emissions for year ending 2022 and 2023, tCO_2e



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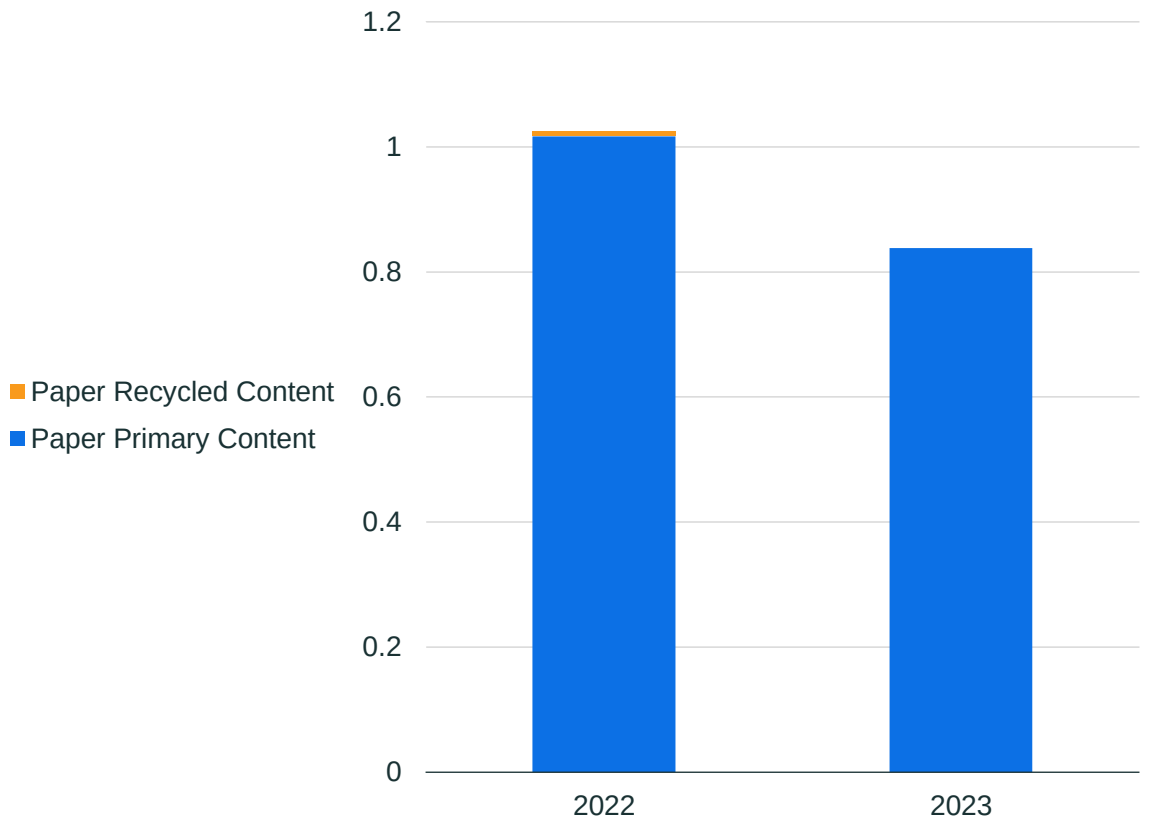
Carbon footprint.

PROCUREMENT

As with Water-related emissions, emissions from Purchased Paper only accounted for a fraction (0.1%) of Archwood Limited's YE2023 measured carbon footprint. Purchasing Paper made from Recycled Content will help lower emissions in this category further in future.

Paper	2022	2023
Paper Primary Content	1.0	0.8
Paper Recycled Content	0.01	-
Total	**1.0**	**0.8**

Procurement emissions for year ending 2022 and 2023, tCO_2e



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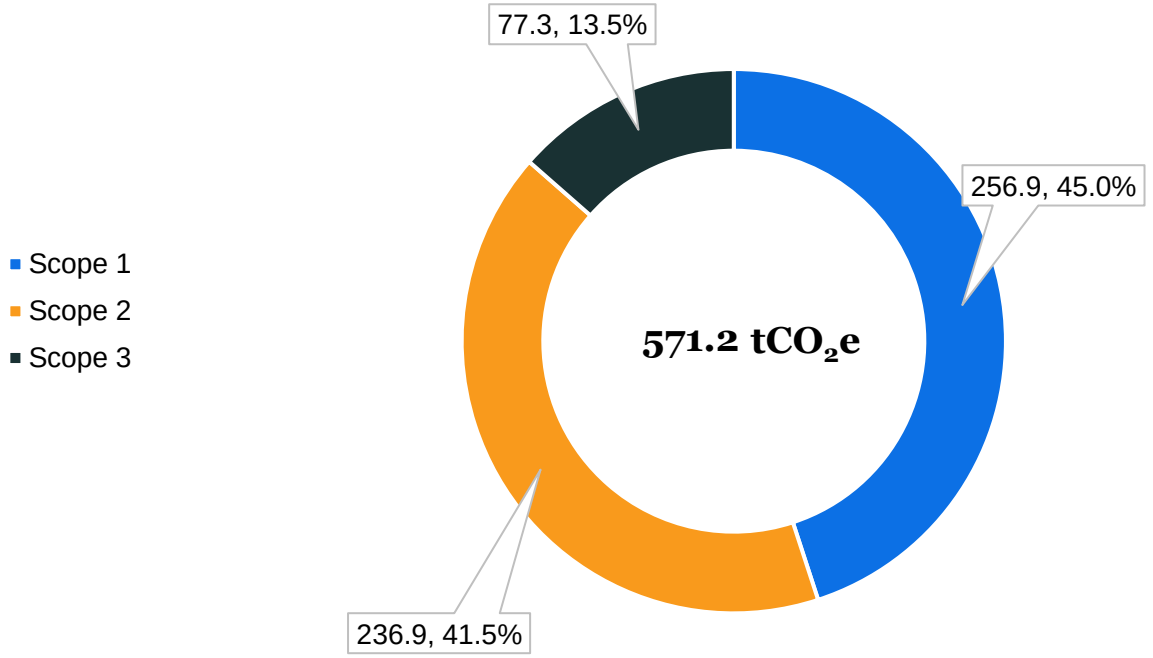
Measured carbon footprint.

BY SCOPE

Scope	tCO_2e	%
Scope 1	256.9	45.0
Scope 2	236.9	41.5
Scope 3	77.3	13.5
Total	**571.2**	**100.0**

Measured carbon emissions by scope for year ending 2023, tCO_2e



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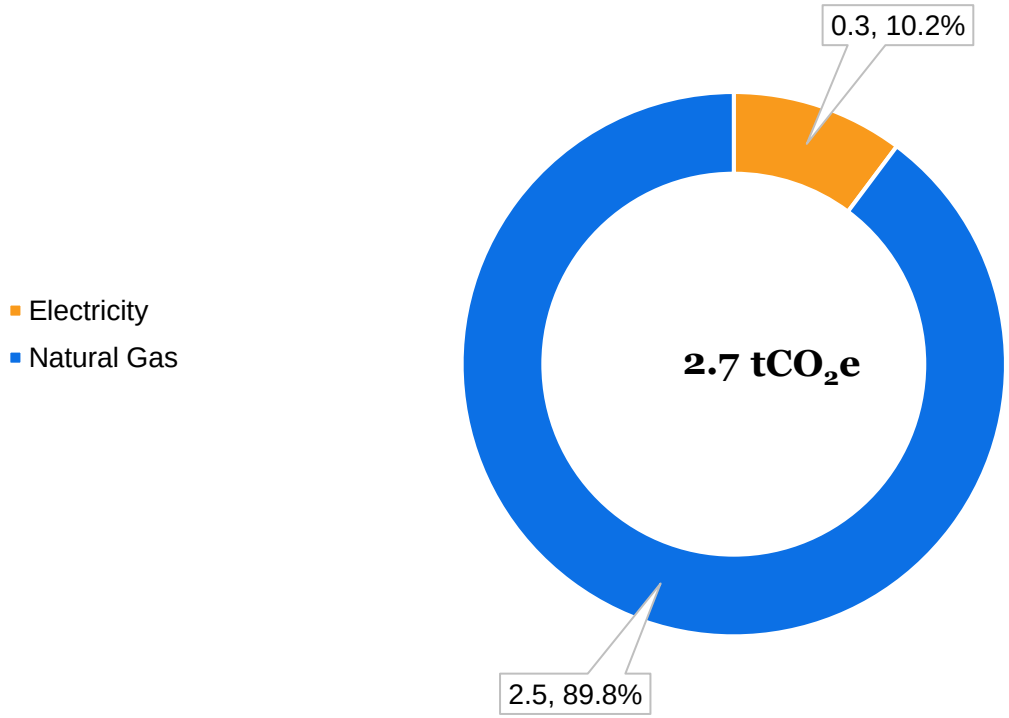
Carbon footprint.

HOME OFFICE

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_2e	%
Electricity	0.3	10.2
Natural Gas	2.5	89.8
Total	**2.7**	**100.0**

Homeworking emissions for year ending 2023, tCO_2e



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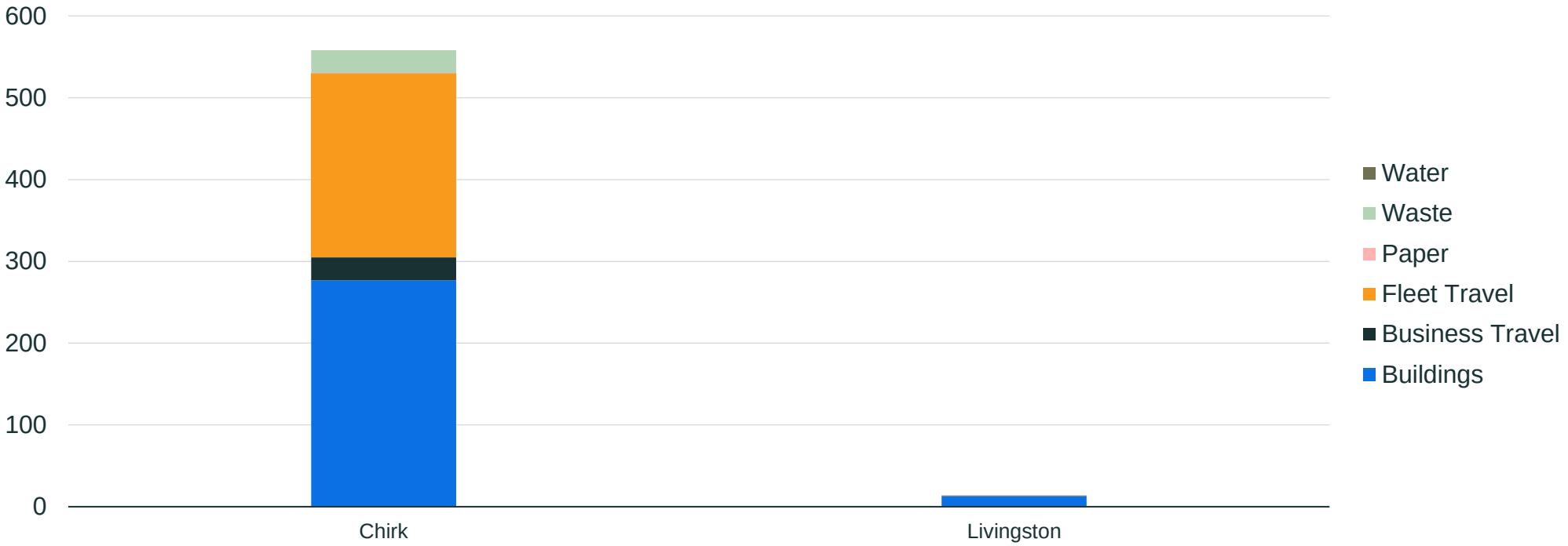
Carbon footprint.

BY LOCATION

Carbon footprint for each location

tCO_2e



Benchmarking Percentage reduction.

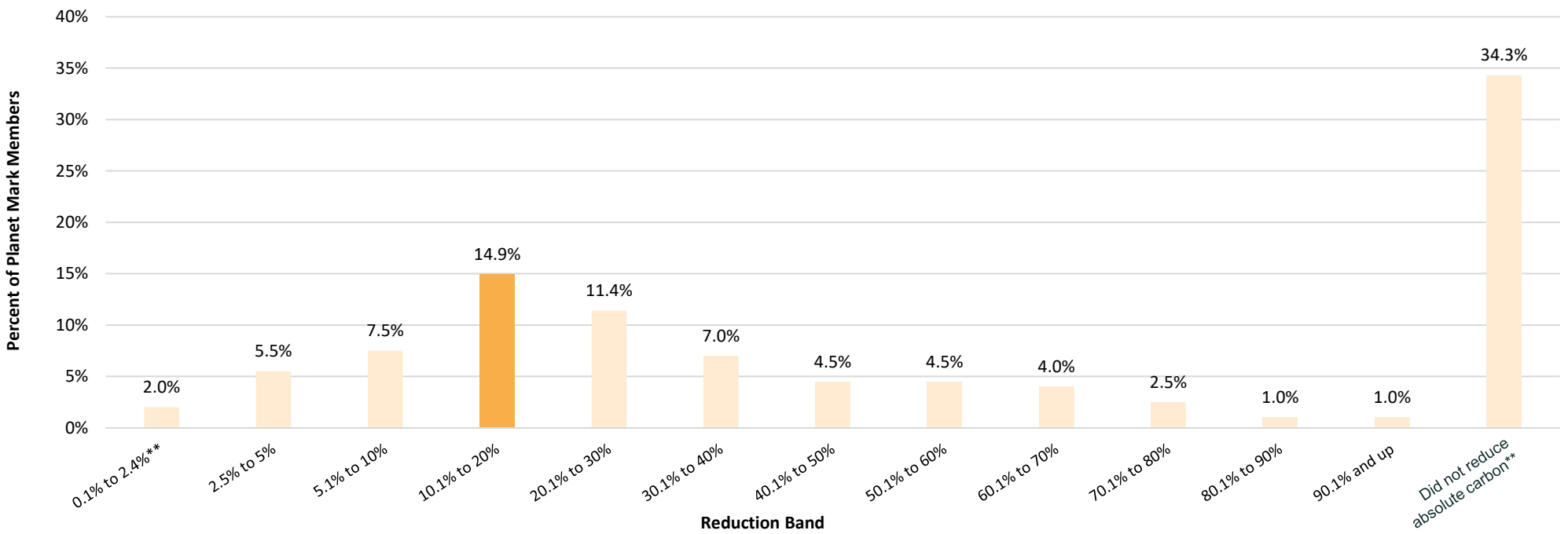
% reduction in absolute carbon by Planet Mark Members (Year 2021)*

Absolute carbon reduction achieved:

-19.1%

Your reduction band is highlighted on the graph.

Archwood Limited reduced its measured carbon by 19.1% from the previous year. 14.9% of Planet Mark Members also achieved a 10.1% to 20% 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.

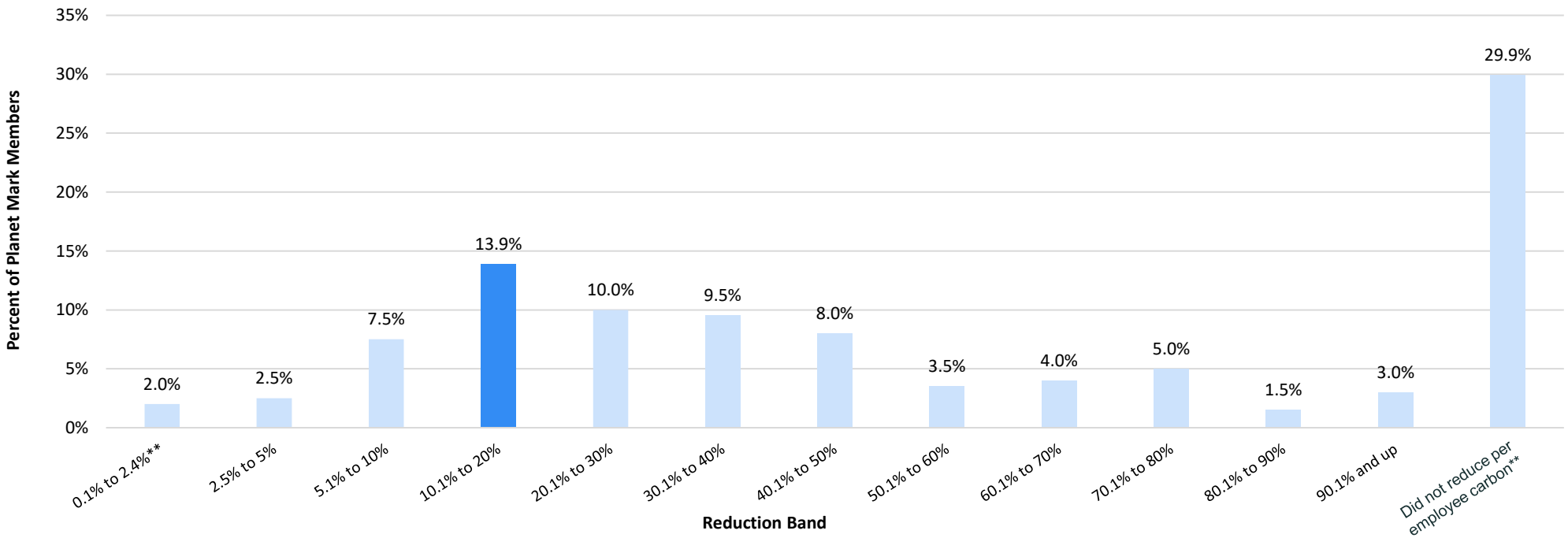
% reduction in carbon per employee by Planet Mark Members (Year 2021)*

Per employee carbon reduction achieved:

-10.9%

Your reduction band is highlighted on the graph.

Archwood Limited reduced its measured carbon per employee by 10.9% from the previous year. 13.9% of Planet Mark Members also achieved a 10.1% to 20% reduction in their measured carbon per employee.



*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.

Measured carbon footprint

571.2 tCO_2e

Carbon reduction target (5%)

28.6 tCO_2e

Carbon reduction per employee (5%)

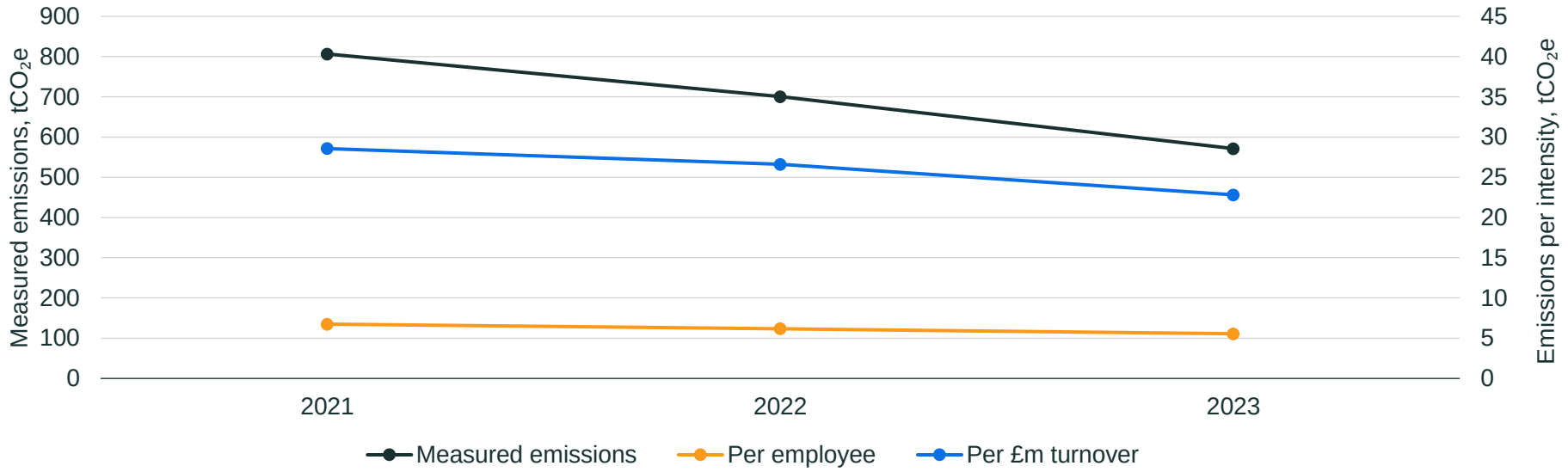
0.3 tCO_2e

Historical Carbon Emissions

Reported carbon emissions year ending 2021 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.

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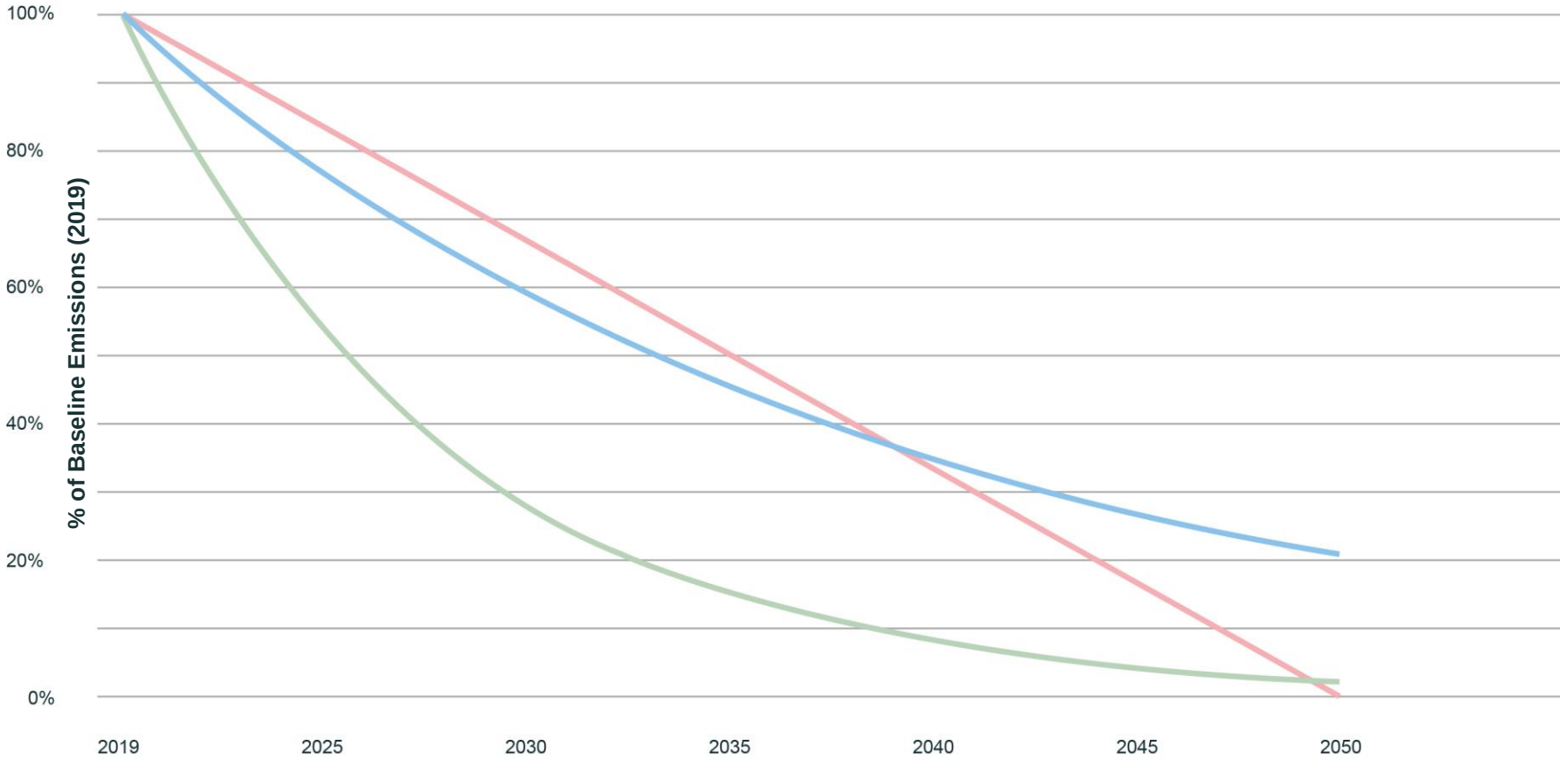
Target setting.

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 Planet Mark Member absolute carbon reduction average over the past 5 years (2018-2022).
- 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
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.

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.

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.

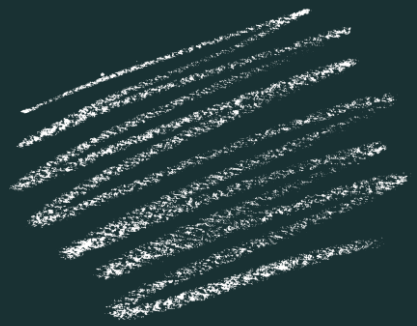
Contributing towards

9 SDGs

SDG alignment.

6 CLEAN WATER AND SANITATION	6.3 - 100% of water treated
9 INDUSTRY, INNOVATION AND INFRASTRUCTURE	9.4 - Reduction in energy use 9.4 - Reduction in electricity use
13 CLIMATE ACTION	13.3 - Reduction in absolute carbon emissions 13.3 - Donation to the Eden Project
7 AFFORDABLE AND CLEAN ENERGY	7.3 - Reduction in energy use 7.3 - Reduction in electricity use 7.2 - 100% of energy demand met by renewable energy
11 SUSTAINABLE CITIES AND COMMUNITIES	11.6 - Measured carbon emissions 11.6 - Reduction in absolute carbon emissions 11.6 - Reduction in travel emissions 11.6 - 98% of waste recycled and composted 11.4 - Donation to the Eden Project
14 LIFE BELOW WATER	14.3 - Reduction in absolute carbon emissions
8 DECENT WORK AND ECONOMIC GROWTH	8.4 - Reduction in absolute carbon emissions
12 RESPONSIBLE CONSUMPTION AND PRODUCTION	12.6 - Measured carbon emissions 12.1 - Reduction in absolute carbon emissions 12.5 - 98% of waste recycled and composted
15 LIFE ON LAND	15.5 - Reduction in absolute carbon emissions 15.2 - Reduction in paper use

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

Sources.

			Current						
			01 October 2021 to 30 September 2022		01 October 2022 to 30 September 2023				
Source	Scope	Unit	Amount	tCO_2e	Amount	tCO_2e	% Change in tCO_2e from previous year	% total carbon footprint	% Change in amounts from previous year
Buildings									
Electricity (location based)	2	kWh	1,733,476.0	335.2	1,595,074.0	236.9	-29%	41%	-8%
Electricity (market based)	2	kWh	1,733,476.0	0	1,595,074.0	0	-	-	-8%
LPG	1	litres	13,145.0	20.5	11,163.0	17.4	-15%	3%	-15%
Transmission and Distribution Losses	3	kWh	1,733,476.0	30.7	1,143,995.0	20.5	-33%	4%	-34%
Wood Fuel	1	kWh	1,736,485.7	18.3	1,365,657.1	14.7	-20%	3%	-21%
Procurement									
Paper Primary Content	3	tonnes	1.1	1.0	0.9	0.8	-18%	0.1%	-17%
Paper Recycled Content	3	tonnes	0.01	0.01	-	-	-	-	-
Travel									
Fleet Diesel Car	1	km	20,227.8	3.9	-	-	-	-	-
Fleet Diesel Fuel	1	litres	97,303.2	248.9	89,521.8	224.9	-10%	39%	-8%
Air Travel	3	passenger.km	5,883.8	0.5	48,055.1	7.2	1262%	1%	717%
Average Car	3	km	16,288.2	2.8	-	-	-	-	-
Diesel Car	3	km	28,297.1	4.8	26,658.8	4.5	-6%	1%	-6%
Hybrid Car	3	km	52,271.5	6.3	54,579.3	6.5	3%	1%	4%
Petrol Car	3	km	51,894.1	8.8	61,977.4	10.2	15%	2%	19%
Rail Travel	3	passenger.km	15,280.6	0.5	4,408.9	0.2	-71%	0.03%	-71%
Taxi	3	km	243.0	0.1	-	-	-	-	-
Waste									
Energy from Waste	3	tonnes	31.2	0.7	19.5	0.4	-37%	0.1%	-37%
Landfill	3	tonnes	0.5	0.2	1.6	0.8	237%	0.1%	203%
Recycled	3	tonnes	1,060.3	22.6	1,219.0	25.9	15%	5%	15%
Water									
Water Supply	3	cubic metres	660.6	0.1	787.7	0.1	41%	0.02%	19%
Water Treatment	3	cubic metres	660.5	0.2	786.9	0.2	-12%	0.03%	19%

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Sources (ii).

			Current						
			01 October 2021 to 30 September 2022		01 October 2022 to 30 September 2023				
Source	**Scope**	**Unit**	**Amount**	**tCO_2e**	**Amount**	**tCO_2e**	**% Change in tCO_2e from previous year**	**% total carbon footprint**	**% Change in amounts from previous year**
				Location Based					
Total		**tCO_2e**		**706.0**		**571.2**	**-19%**		
No. employees		Number		113.5		103			
Total per employee		**tCO_2e**		**6.2**		**5.5**	**-11%**		
Turnover £m		£m		26.3		25.0			
Total per £m		**tCO_2e**		**26.8**		**22.8**	**-15%**		
Total floor space		m^2		15,164.0		15,164.0			
Building emissions per m^2		**tCO_2e**		**0.03**		**0.02**	**-28%**		
				Market Based					
Total		**tCO_2e**		**370.8**		**334.3**	**-10%**		
No. employees		Number		113.5		103			
Total per employee		**tCO_2e**		**3.3**		**3.2**	**-1%**		
Turnover £m		£m		26.3		25.0			
Total per £m		**tCO_2e**		**14.1**		**13.4**	**-5%**		
Total floor space		m^2		15,164.0		15,164.0			
Building emissions per m^2		**tCO_2e**		**0.005**		**0.003**	**-24%**		

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About this report – General.

Company Name	Archwood Limited
Sector	Manufacturing
Reporting Period	01 October 2022 to 30 September 2023
Year Of Certification	3rd
Reporting Boundary	Chirk and Livingston Sites
Emission sources included	Electricity, T&D Losses, On-Site Renewables, Water, Fleet, Business Travel, Waste, Paper, Biomass, LPG, Homeworking (not included in total footprint)
Total FTE Employees (annual average no.)	103
Total Internal Floorspace (m^2)	15,164
Data Collection Lead	Lee Travis, Quality & Sustainability Manager, lee.travis@archwoodgroup.com
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	Hugh Williams, Sustainability Consultant, Planet Mark
Checked by	Jamie Beevor, Head of Technical, Planet Mark Alex Smith, Technical Consultant, Planet Mark Emily Reed, Operations Coordinator, Planet Mark
Date	19 January 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	Primary sources - invoices and report	Actual meter reads	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). 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 your specific electricity supply fuel mix as published on your invoices in the most recent reporting period.	Chirk and Livingston Sites
On-Site Renewables	2	kWh	Primary source - report	Actual meter reads	On-site renewables consumption is included within Electricity in the report. 41% of generation is exported. This generation came form a new installation which was commissioned in October 2022. Feed-in-Tariff is not received. An emissions factor of zero has been applied to location-based and the residual mix for market-based.	Chirk and Livingston Sites
Building Fuel	1	litres	Primary source - report	Actual	Archwood uses LPG and Biomass. Biomass boiler is fed from wood waste by-product from manufacturing and provides all hot water and heating on site.	Chirk and Livingston Sites

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).

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Water Supply & Treatment	3	m^3	Primary sources - invoices and report	Actual meter reads		Chirk and Livingston Sites
Homeworking Energy	3	kWh	Secondary sources - Planet Mark homeworking energy calculation tool and data submission	Estimated	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. Where the business has a physical office, homeworking utility emissions are calculated but not included in the Total Carbon Footprint figure.	Chirk and Livingston Sites
Fleet Vehicles	1	litres	Primary source - fuel report	Actual	None	Chirk and Livingston Sites
Private Vehicles Used for Business	3	km	Primary source - travel report	Actual	None	Chirk and Livingston Sites
Air Travel	3	pkm	Primary source - travel report	Actual	None	Chirk and Livingston Sites

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).

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Rail Travel	3	pkm	Primary source - travel report	Actual	Where only spend data are available, distance has been estimated using £0.55 per mile for national rail and £0.86 per mile for London underground. Calculations based on 2021 analysis of Planet Mark members' rail journeys.	Chirk and Livingston Sites
Waste	3	tonnes	Primary and secondary sources - data submission, supplier report and invoices	Mixed	We have updated our approach to calculating emissions from waste. This change in methodology has led to a reduction in our estimate of the weight of waste arisings based on the number of bin collections and this may result in an apparent reduction in the waste emissions estimate.	Chirk and Livingston Sites
Procurement - Paper	3	tonnes	Secondary source - data submission	Actual	None	Chirk and Livingston 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).	Chirk and Livingston Sites

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).

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	Chirk and Livingston Sites
Floor Area		m²	Secondary source - data submission form	Assumed Actual	None	Chirk and Livingston Sites
Restatement					Last year's carbon footprint has been restated with an updated Biomass energy output for the Chirk site. This is due to the fact the meters used for measurement show Heat kWh rather than Energy kWh. As biomass boilers have a certain degree of energy inefficiency (they are deemed to be 70% efficient by a 2019 Government report: https://assets.publishing.service.gov.uk/media/5d78ee5940f0b61cdf60ac5e/Full_technical_report.pdf), the amount of Energy (kWh) used will be greater than the amount of Heat (kWh) created. Both last year's and this year's figures for Heat (kWh) have therefore been divided by 0.7 to provide a figure for Energy (kWh) used in this process.	Chirk Site

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.

	Previous Year	01 October 2022 to 30 September 2023	Definition
Relevance of boundary	4	4	Boundary accurately reflects the entire business carbon footprint for the studied period. (eg 95% of organisational activity included)
Data completeness	4	4	12 months of data provided for all sources.
Transparency	3	3	Majority disclosure of assumptions and/or some original evidence provided.
Data accuracy	4	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	**18 out of 20**	**17 out of 20**	

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

- Provide invoices where possible for all Utilities;
- Report weight of Waste, rather than number of bin empties, for more accurate results;
- Measure amount of Wood used in combustion process for more accurate footprint.

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

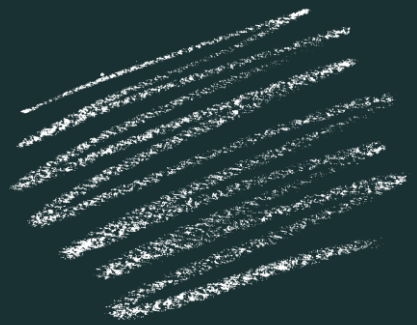
Choose travel management companies, airlines, taxi companies, couriers and other providers that are Planet Mark certified, and look for clear progress on improving fuel efficiency and pursuing credible, sustainable solutions for travel.

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.

THANK YOU

Get in touch

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