

Business Certification

Birmingham County Football Association

YEAR 1

01 January 2021 - 31 December 2021



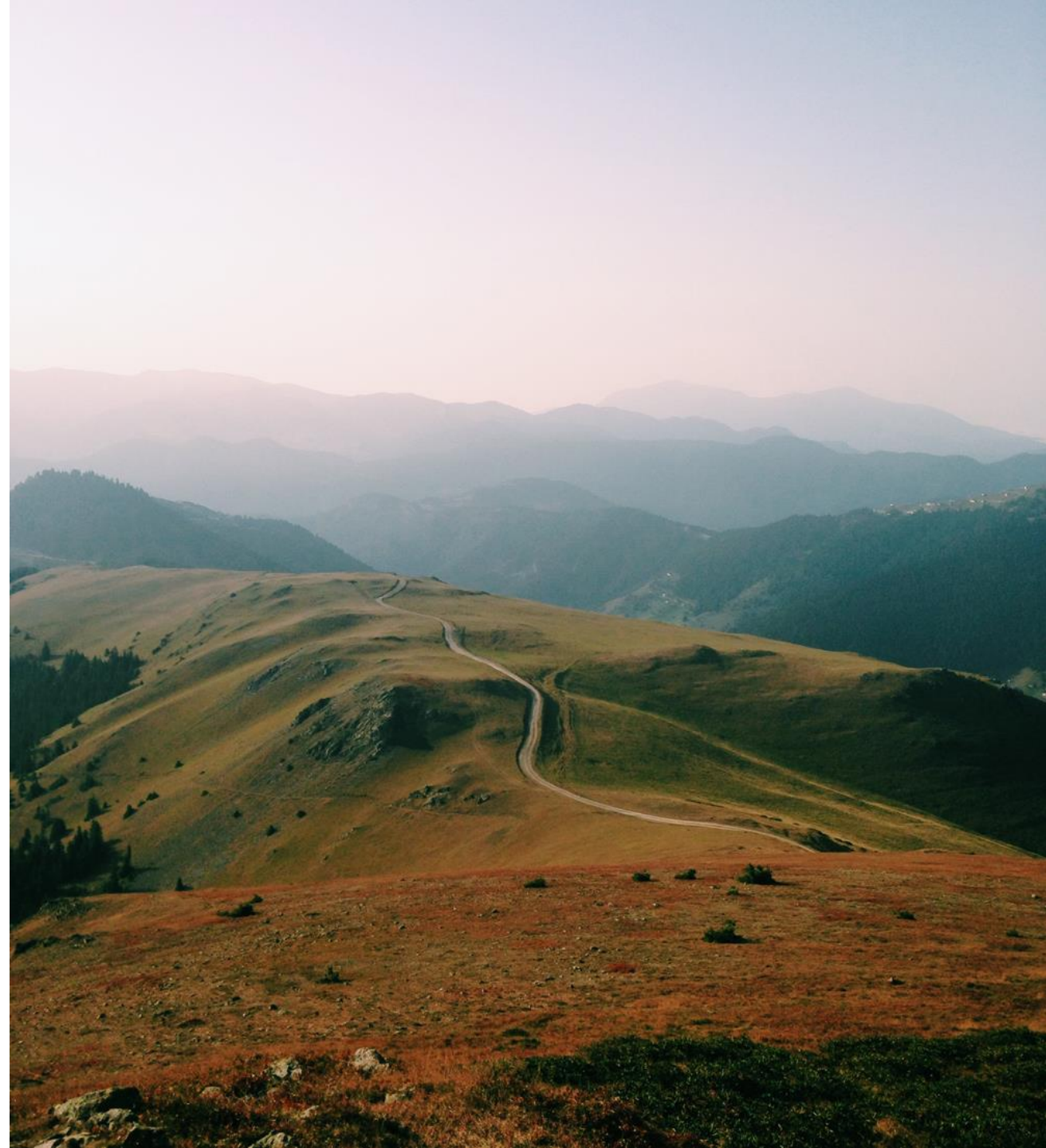
Measure



Engage



Communicate





Total carbon EMISSIONS

81.0
tCO₂e total emissions

Total emissions equivalent to
72 flights from London to New York

3.7
tCO₂e per employee



Buildings
57.9 tCO₂e

Used enough
electricity to power **7**
UK homes for one
year



Travel
21.9 tCO₂e

Travelled **3** times
around the world



Waste
0.6 tCO₂e

Produced waste that
weighs the same as **3**
London buses



Water
0.4 tCO₂e

178 litres per
employee per day



Procurement
0.2 tCO₂e

192 sheets of paper
used per day



Homeworking
2.4 tCO₂e

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



Step one.

MEASURE





Total carbon footprint.

Location *BASED*

Reporting year:

01 January 2021 - 31 December 2021

Reporting Boundary:

Birmingham site (Ray Hall Lane, Great Barr, Birmingham, B43 6JF)

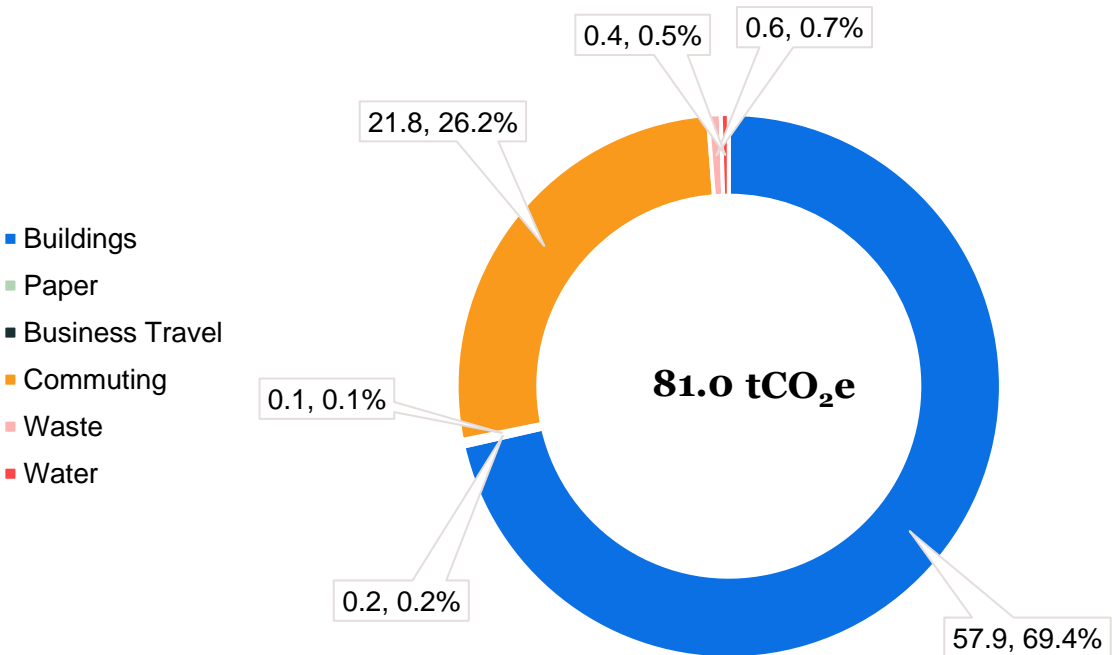
Emissions measured:

Electricity, T&D Losses, Natural Gas, Refrigerants, Other Fuels, Water, Business Travel, Commuting, Waste, Paper, Homeworking (excluded from footprint)

Highlights:

Carbon footprint (tCO₂e): **81.0**
Per employee (tCO₂e): **3.7**
Next reduction target: **5%**
Data quality score: **13 out of 16**

Carbon footprint by emission source for year ending 2021, 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).

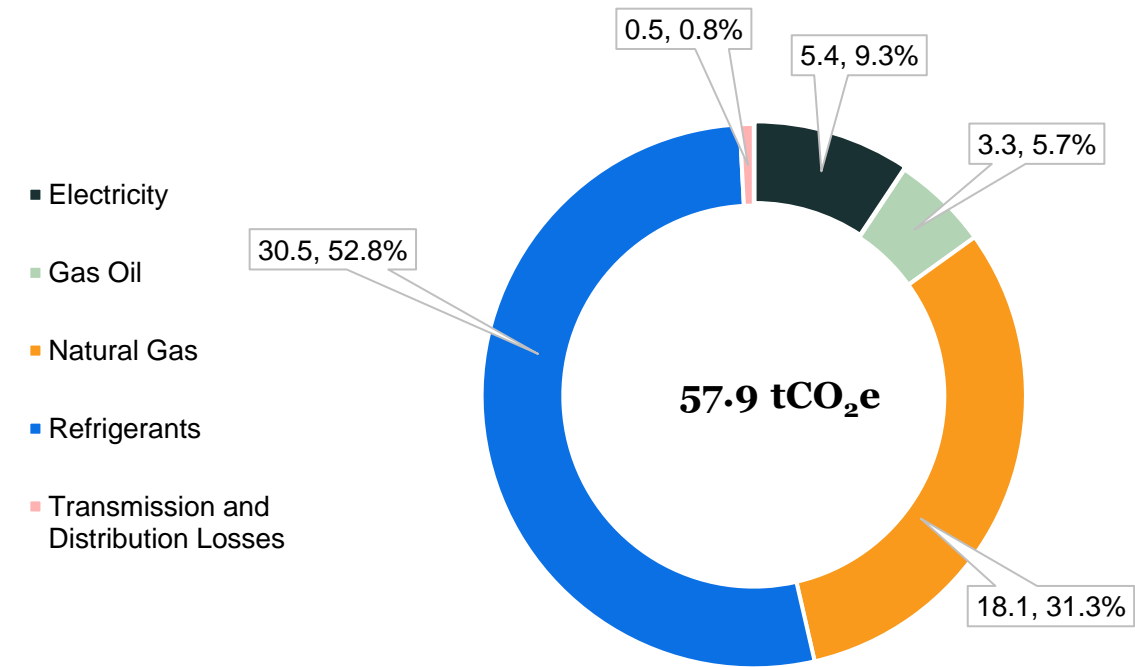


Carbon footprint.

BUILDINGS

Buildings	tCO ₂ e	%
Electricity	5.4	9.3
Gas Oil	3.3	5.7
Natural Gas	18.1	31.3
Refrigerants	30.5	52.8
Transmission and Distribution Losses	0.5	0.8
Total	57.9	100.0

Building emissions for year ending 2021, tCO₂e



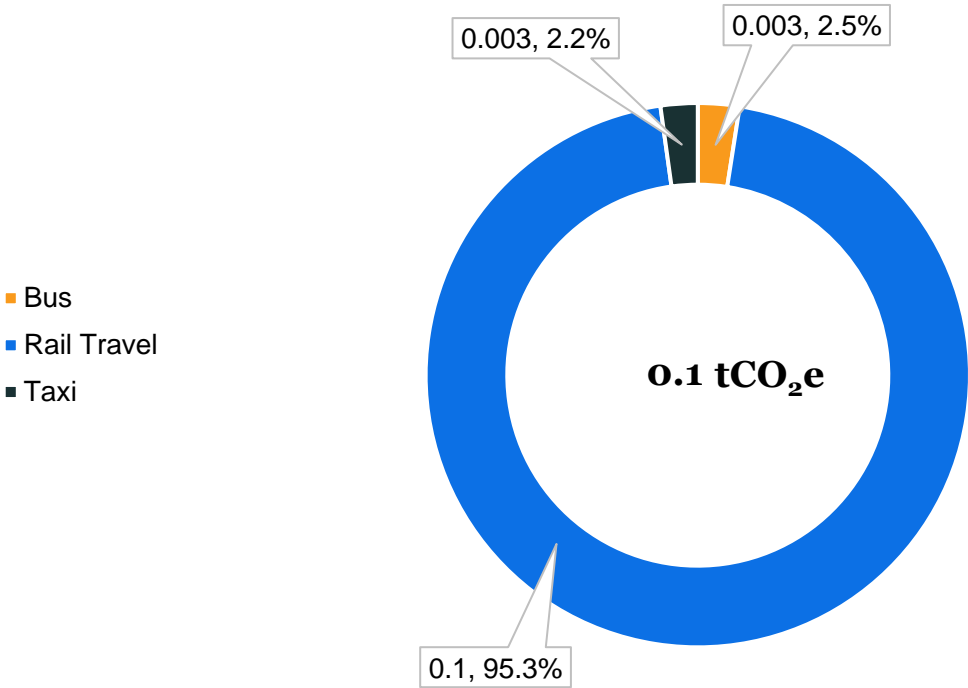


Carbon footprint.

Business TRAVEL

Business Travel	tCO ₂ e	%
Bus	0.003	2.5
Rail Travel	0.1	95.3
Taxi	0.003	2.2
Total	0.1	100.0

Business travel emissions for year ending 2021, tCO₂e



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

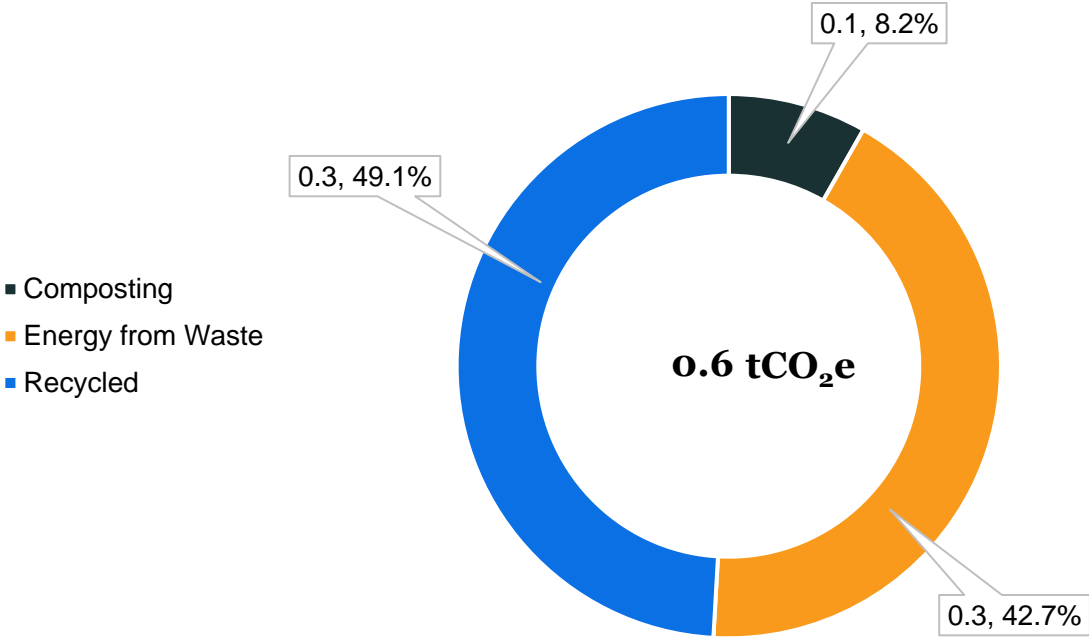



Carbon footprint.

WASTE

Waste	tCO ₂ e	%
Composting	0.1	8.2
Energy from Waste	0.3	42.7
Recycled	0.3	49.1
Total	0.6	100.0

Waste emissions for year ending 2021, tCO₂e



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

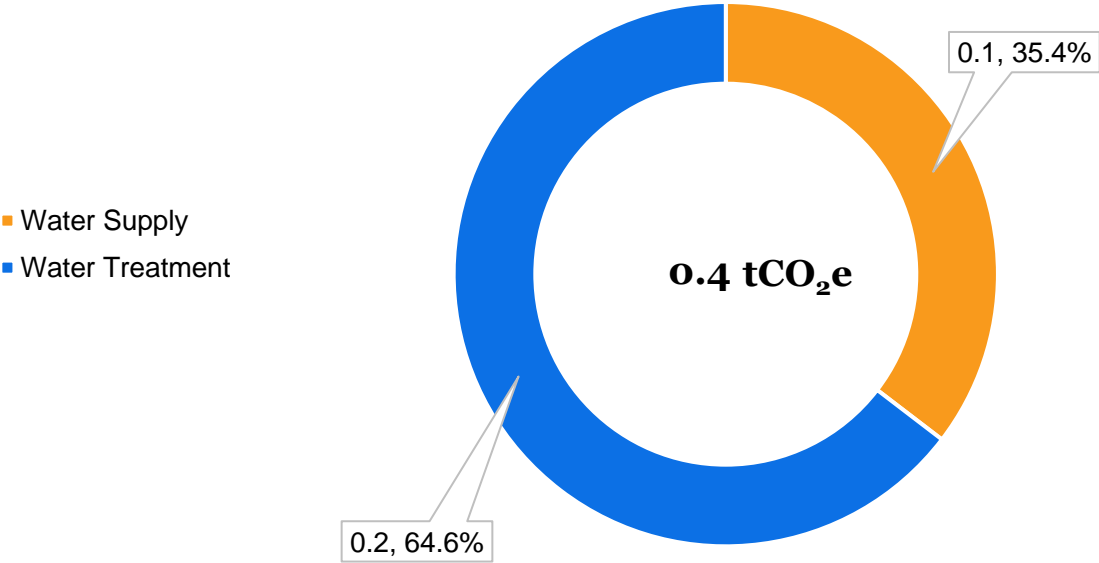


Carbon footprint.

WATER

Water	tCO ₂ e	%
Water Supply	0.1	35.4
Water Treatment	0.2	64.6
Total	0.4	100.0

Water emissions for year ending 2021, tCO₂e



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



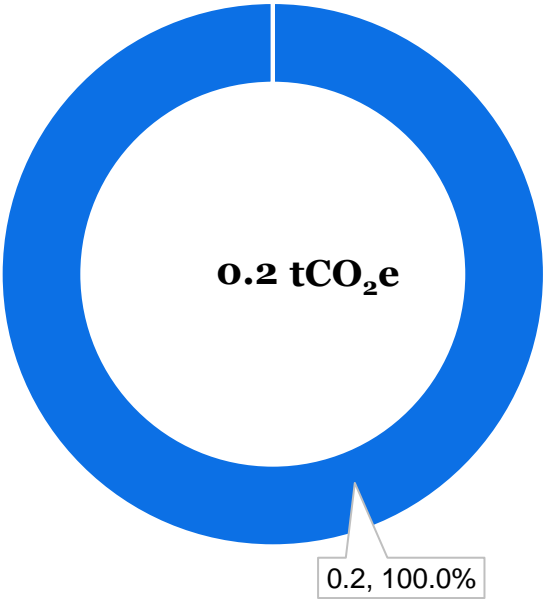
Carbon footprint.

PROCUREMENT

Paper	tCO ₂ e	%
Paper Primary Content	0.2	100.0
Total	0.2	100.0

Procurement emissions for year ending 2021, tCO₂e

■ Paper Primary Content



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

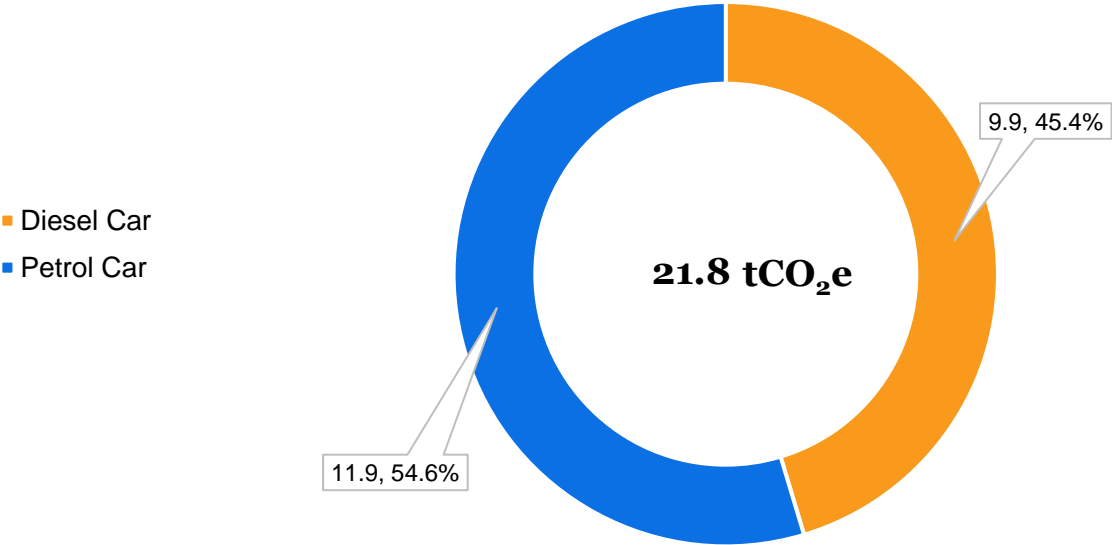


Carbon footprint.

COMMUTING

Commuting	tCO ₂ e	%
Diesel Car	9.9	45.4
Petrol Car	11.9	54.6
Total	21.8	100.0

Commuting emissions for year ending 2021, tCO₂e



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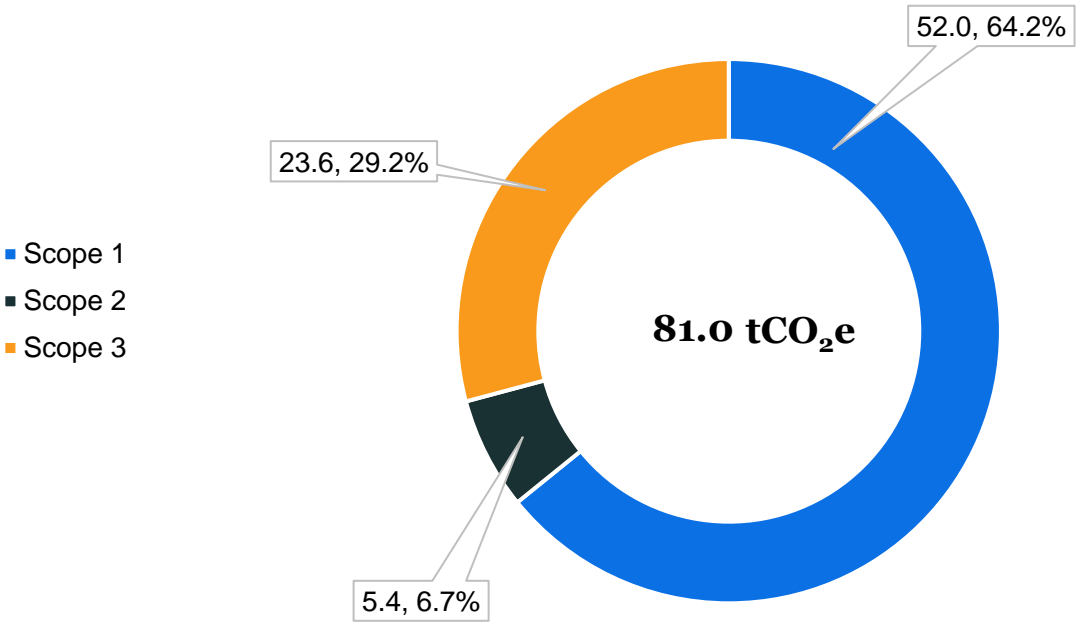


Total carbon footprint.

BY SCOPE

Scope	tCO ₂ e	%
Scope 1	52.0	64.2
Scope 2	5.4	6.7
Scope 3	23.6	29.2
Total	81.0	100.0

Total carbon emissions by scope for year ending 2021, tCO₂e



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

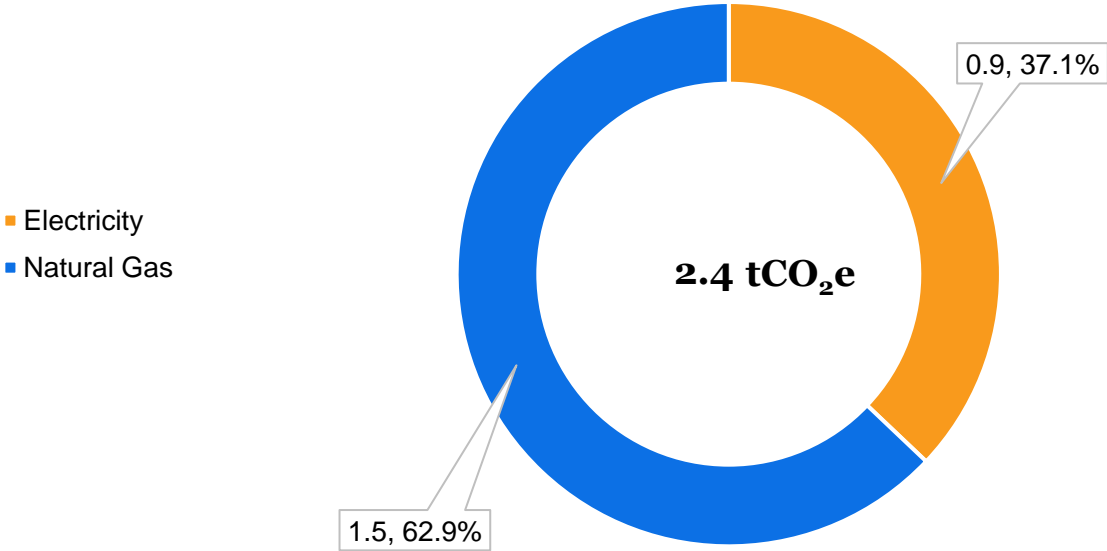


Carbon footprint.

HOME OFFICE

Homeworking	tCO ₂ e	%
Electricity	0.9	37.1
Natural Gas	1.5	62.9
Total	2.4	100.0

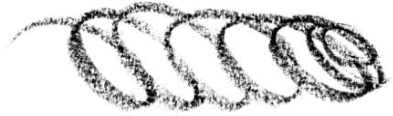
Homeworking emissions for year ending 2021, tCO₂e



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.



Total carbon
footprint
81.0 tCO₂e



Total carbon
reduction (5%)
4.1 tCO₂e



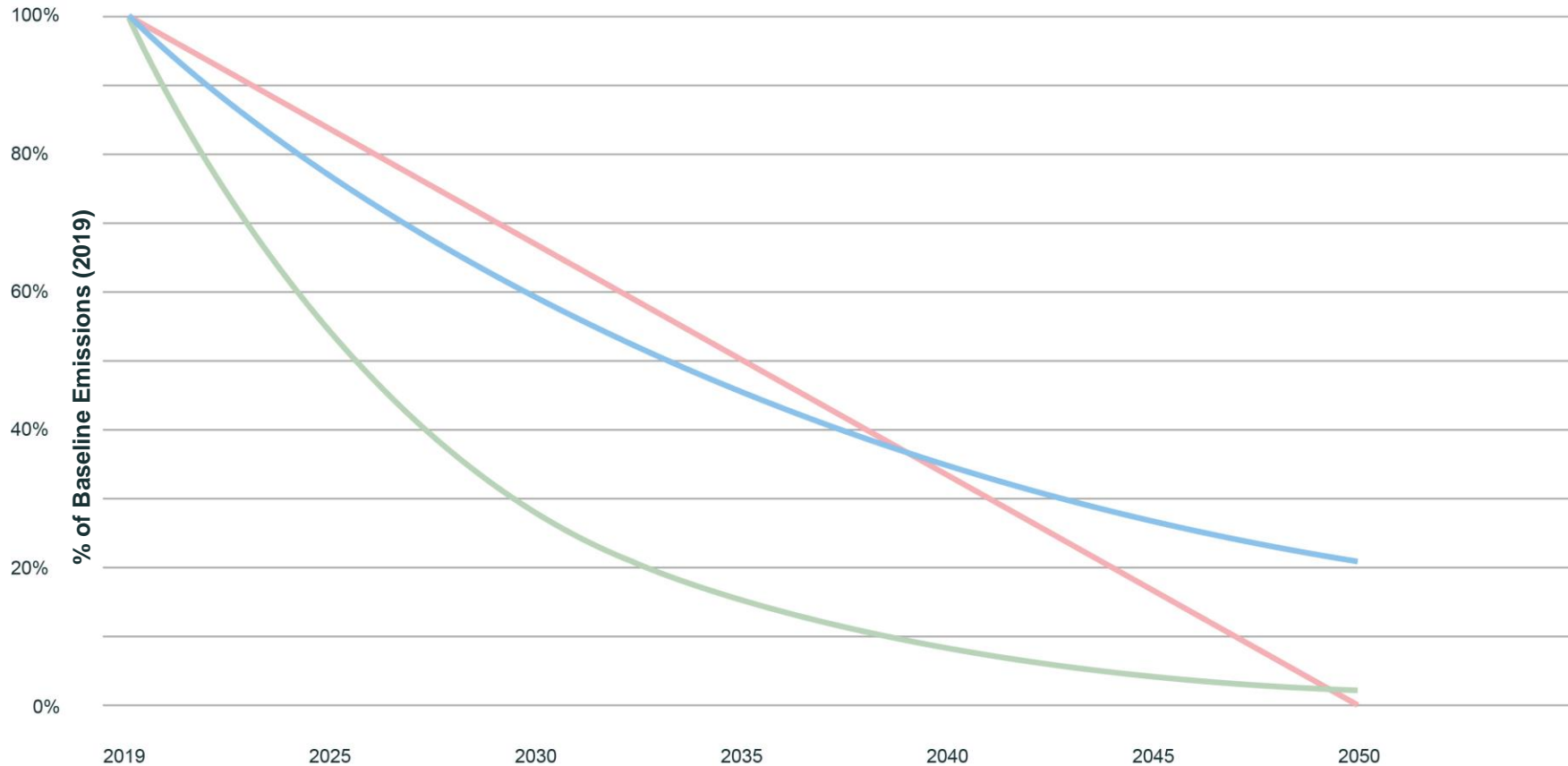
Carbon reduction
per employee (5%)
0.2 tCO₂e





Target setting.

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



Planet Mark 5% annual reduction

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

Planet Mark 12% annual reduction

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

Net Zero 2050



Step two.

ENGAGE

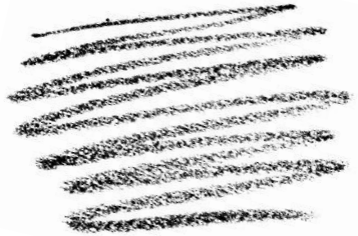




Workshops.

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

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. We contribute 5% of Business Certification fees to the Eden Project.

Planet Mark is a registered charity (No. 1043911) and a company limited by guarantee (No. 02060814). It is a member of the Eden Project, which is a registered charity (No. 1043911) and a company limited by guarantee (No. 02060814).





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





Step three.

COMMUNICATE



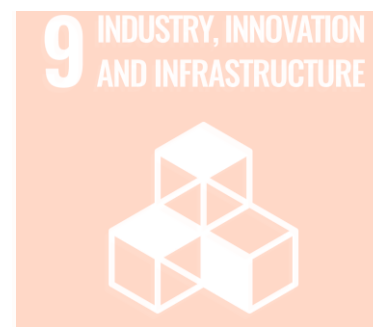
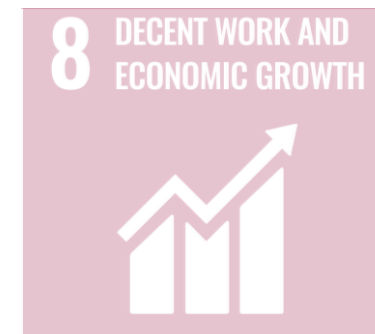
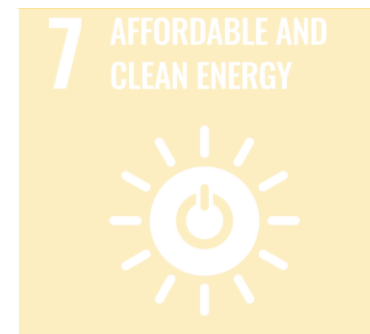
Communicating your international influence.

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 18 SDG targets.

Contributing towards

5 SDGs

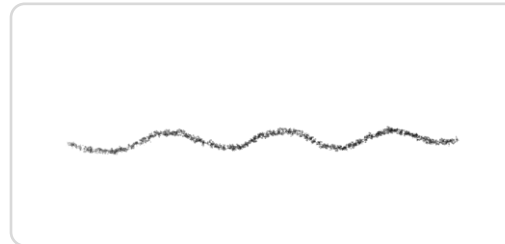
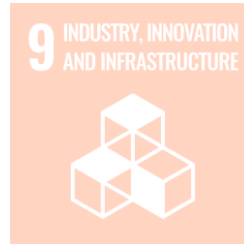




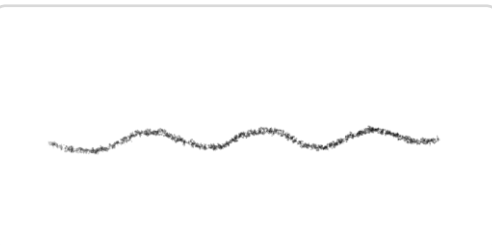
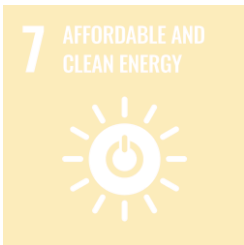
SDG alignment.



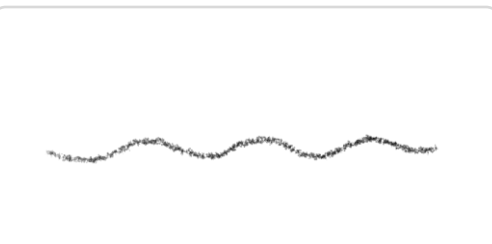
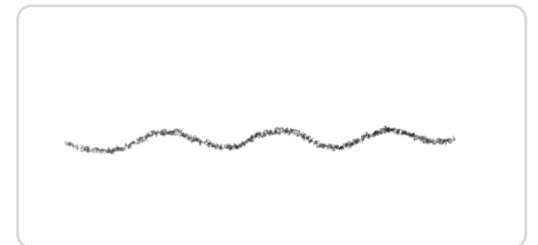
6.3 - 100% of water treated
6.6 - Acre of rainforest protected



13.3 - Acre of rainforest protected, storing 260 tCO₂
13.3 - Donation to the Eden Project



11.6 - Measured carbon emissions
11.6 - 61% of waste recycled and composted
11.4 - Donation to the Eden Project
11.4 - Acre of rainforest protected



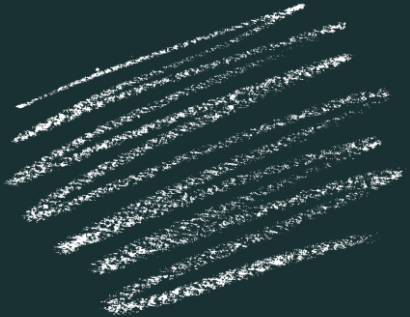
12.6 - Measured carbon emissions
12.5 - 61% of waste recycled and composted



15.2 - Acre of rainforest protected, storing 260 tCO₂



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 all of your staff members to join our online platform, open exclusively to Planet Mark members. A space to learn, share, celebrate and discuss. 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 January 2021 - 31 December 2021					
Source	Scope	Unit	Amount	tCO ₂ e	% total carbon footprint
Buildings					
Electricity (location based)	2	kWh	25,468.1	5.4	7%
Gas Oil	1	litres	1,201.9	3.3	4%
Natural Gas	1	kWh	99,026.8	18.1	22%
Refrigerants	1	kg	15.1	30.5	38%
Transmission and Distribution Losses	3	kWh	25,468.1	0.5	1%
Procurement					
Paper Primary Content	3	tonnes	0.2	0.2	0.3%
Travel					
Bus	3	passenger.km	29.0	0.003	0.004%
Diesel Car	3	km	58,753.4	9.9	12%
Petrol Car	3	km	68,393.2	11.9	15%
Rail Travel	3	passenger.km	3,238.1	0.1	0.1%
Taxi	3	km	12.7	0.003	0.003%
Waste					
Composting	3	tonnes	5.7	0.1	0.1%
Energy from Waste	3	tonnes	12.4	0.3	0.3%
Recycled	3	tonnes	14.3	0.3	0.4%
Water					
Water Supply	3	cubic metres	910.0	0.1	0.2%
Water Treatment	3	cubic metres	910.0	0.2	0.3%
Total		tCO₂e		81.0	
No. employees		Number		22	
Total per employee		tCO₂e		3.7	
Turnover £m		£m		1.0	
Total per £m		tCO₂e		79.2	



About this report – General.

Company Name	Birmingham County Football Association
Sector	Non-Profit
Reporting Period	01 January 2021 - 31 December 2021
Year Of Certification	1st
Reporting Boundary	Birmingham site operations (Ray Hall Lane, Great Barr, Birmingham, B43 6JF)
Emission sources included	Electricity, T&D Losses, Natural Gas, Refrigerants, Other Fuels, Water, Business Travel, Commuting, Waste, Paper, Homeworking (excluded from footprint)
Total FTE Employees (annual average no.)	22
Total Internal Floorspace (m²)	None
Data Collection Lead	Richard Lindsay, Richard.Lindsay@BirminghamFA.com , Business Insights Manager
Significant reporting changes	None
Current Conversion Factor	BEIS 2021
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	Joe Burnett, Data Analyst, Planet Mark
Checked by	Nadia Karagianni, Head of Technical, Planet Mark Rima Trofimovaite, Head of Certification, Planet Mark
Date	11 March 2022



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 source - invoices	Actual meter reads with some extrapolation to match reporting period.	Your electricity consumption is shown in the carbon footprint as Purchased Electricity emissions (Scope 2 emissions) and Electricity Transmission and Distribution losses (Scope 3 emissions). Consumption for the site is made up of readings from two meters. Please see the Adjusted Data slide.	Birmingham site
Natural gas	1	kWh	Primary source - invoices	Actual and estimated meter reads	None	Birmingham site
Building Fuel	1	litres	Secondary source - Planet Mark Data Submission document	Estimated	Birmingham County FA noted in their data submission document that the Groundsman spends approximately £60 on Gas Oil/Red Diesel per month. Consumption for the year has been calculated by taking an average of the quarterly prices of UK Gas Oil in 2021 (59.9p per litre) and estimating the litres used per month.	Birmingham site
Refrigerant top up	1	kg	Primary source - aircon service documentation	Actual	None	Birmingham site
Water supply & treatment	3	m ³	Primary source - invoices	Actual and estimated meter reads with some extrapolation to match reporting period.	Consumption for the site is made up of readings from two meters. Please see the Adjusted Data slide.	Birmingham 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 – Caveats (ii).

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Homeworking energy	3	kWh	Secondary source - Planet Mark homeworking energy calculation tool	Estimated	Includes additional home electricity and natural gas consumption as a result of working from home. We only include the annual average FTE number of employees who work from home at least two days a week. Assumes 875 kWh additional elec consumption and 2,040 kWh additional gas consumption for each FTE employee working from home 5 days a week. Estimations are based on Typical UK domestic consumption for elec and gas as calculated by Ofgem in 2020 and the additional consumption as a result of 1 person working from home 5 days a week as calculated by Uswitch in 2020.	Birmingham site
Private vehicles used for business	3	km	Primary source - expense claims	Actual and estimated distances	Distances travelled were calculated using the Planet Mark Distance Calculator tool. Where origin and destination postcodes were not given, we calculated the distance for each journey based on expenses claimed at £0.45 per mile.	Birmingham site
Rail travel	3	pkm	Primary source - expense claims	Actual	None	Birmingham 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 – Caveats (iii).

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Underground rail	3	pkm	Primary source - expense claims	Actual cost, estimated distance	Only cost per trip available. We assumed £0.86 per mile. Calculations based on 2021 analysis of Planet Mark members' underground rail journeys.	Birmingham site
Taxi travel	3	km	Primary source - expense claims	Actual cost, estimated distance	Only cost per trip available. We assumed £2.53 per mile. Calculations based on a fixed start price of £2.8 per journey, an average cost of £2.02 per mile and an average taxi journey of 5.36 mile`s. (sources: UK national average taxi costs, Numbeo and 2019 Passenger journeys per person per year - Taxi and Private Hire Vehicle Statistics: England 2021.)	Birmingham site
Commuting	3	km	Primary source - employee commuting report	Actual	None	Birmingham site
Waste Recycling	3	tonnes	Primary source - supplier invoices	Actual	Weight estimated using Environment Agency factors based on bin size. Estimated as 'light materials'.	Birmingham site
Energy from waste	3	tonnes	Primary source - supplier invoices	Actual	Weight estimated using Environment Agency factors based on bin size. Estimated as 'light materials'. As per the supplied invoices, Veolia use the Imperial Ton as a unit of measure - Planet Mark have therefore multiplied the recorded tonnage by 1.01605 to record this value in tonnes.	Birmingham 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 – Caveats (iv).

Operational Boundary	Scope	Unit	Data Source	Data Accuracy	Comments, omissions, estimates or extrapolations	Organisational Boundary
Waste Composting	3	tonnes	Primary source - supplier invoices	Actual	As per the supplied invoices, Veolia use the Imperial Ton as a unit of measure - Planet Mark have therefore multiplied the recorded tonnage by 1.01605 to record this value in tonnes.	Birmingham site
Procurement - paper	3	tonnes	Primary source - purchase log	Actual	Planet Mark have assumed all paper is standard (not recycled and not sustainably sourced).	Birmingham site
Headcount		no.	Primary source - annual accounts	Actual	We have used annual average full time equivalent employees. Part time employees assumed to work 20 hours a week. We assume headcount only includes active employees (i.e. excludes employees on furlough).	Birmingham site
Turnover		£	Primary source - annual accounts	Actual	None	Birmingham 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 Code of Practice and provides an indication of data assurance when using information in this report in your business.

01 January 2021 - 31 December 2021		Definition
Relevance of boundary	3	Boundary accurately reflects the majority of the business carbon footprint for studied period.
Data completeness	3	12 months of data provided and all GHG emission sources within the boundary accounted for, no disclosure of exclusions.
Transparency	4	Data collection procedure clearly disclosed with clear audit trail (invoices provided) and full disclosure of assumptions.
Data accuracy	3	Efforts made to reduce uncertainties. No estimated meter readings, actual data provided where possible. Some estimations/sampling.
Total score	13 out of 16	

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

- To record a consumption figure in litres for all Building Fuel purchases (Gas Oil/Red Diesel).
- To provide the paper type (e.g. standard, recycled, sustainably sourced) for each paper entry in your submission document.
- To provide an origin and destination for all business travel journeys.



About this report – Caveats – Adjusted Data (i).

Notes: Data for the periods shown below has been interpolated or extrapolated as indicated in the table.

Emission Source	Scope	Site	Data Source	Data Accuracy	Date From	Date To	No. of Days	Adjusted Date From	Adjusted Date To	Adjusted No. of Days	Comment
Electricity	2	Birmingham	Invoice	Mixed (actual & est)	01-11-2021	30-11-2021	30	01-11-2021	31-12-2021	61	The invoice covering the month of November has been extrapolated to cover the month of December.
Water Supply	3	Birmingham	Invoice	Mixed (actual & est)	01-12-2020	10-05-2021	161	01-01-2021	10-05-2021	130	The invoice covering the period 01/12/2020 to 10/05/2021 has been interpolated to cover the start of the reporting period.
Water Supply	3	Birmingham	Invoice	Mixed (actual & est)	11-05-2021	03-11-2021	177	11-05-2021	31-12-2021	235	The invoice covering the period 11/05/2021 to 03/11/2021 has been extrapolated to cover both November and December in 2021.
Water Supply	3	Birmingham	Invoice	Mixed (actual & est)	01-12-2020	10-05-2021	161	01-01-2021	10-05-2021	130	The invoice covering the period 01/12/2020 to 10/05/2021 has been interpolated to cover the start of the reporting period.



About this report – Caveats – Adjusted Data (ii).

Notes: Data for the periods shown below has been interpolated or extrapolated as indicated in the table.

Emission Source	Scope	Site	Data Source	Data Accuracy	Date From	Date To	No. of Days	Adjusted Date From	Adjusted Date To	Adjusted No. of Days	Comment
Water Supply	3	Birmingham	Invoice	Mixed (actual & est)	11-05-2021	03-11-2021	177	11-05-2021	31-12-2021	235	The invoice covering the period 11/05/2021 to 03/11/2021 has been extrapolated to cover both November and December in 2021.
Water Treatment	3	Birmingham	Invoice	Mixed (actual & est)	01-12-2020	10-05-2021	161	01-01-2021	10-05-2021	130	The invoice covering the period 01/12/2020 to 10/05/2021 has been interpolated to cover the start of the reporting period.
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Recommendations.

APPENDIX





Guidance for general best practice.

Data collection and quality

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

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

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

Fuel: Introduce fuel cards.

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

Building

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

Waste

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

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



Guidance for general best practice.

Water

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

Introduce a water use awareness campaign in communal kitchen areas.

Travel

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

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

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

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

Paper

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

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



Guidance for general best practice.

Staff engagement

Organise annual sustainability workshops.

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

Supplier engagement

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

A BRIGHTER future.



THANK YOU

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