CARBON REDUCTION REPORT
JANUARY 2026

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ARCHITECTS

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CONTENTS

Scope 1-3
Carbon Emissions
October 2024-September 2025

25,833 $kgCO^2e$
Total Carbon

759.8 $kgCO^2e$
Total Carbon per employee

INTRODUCTION

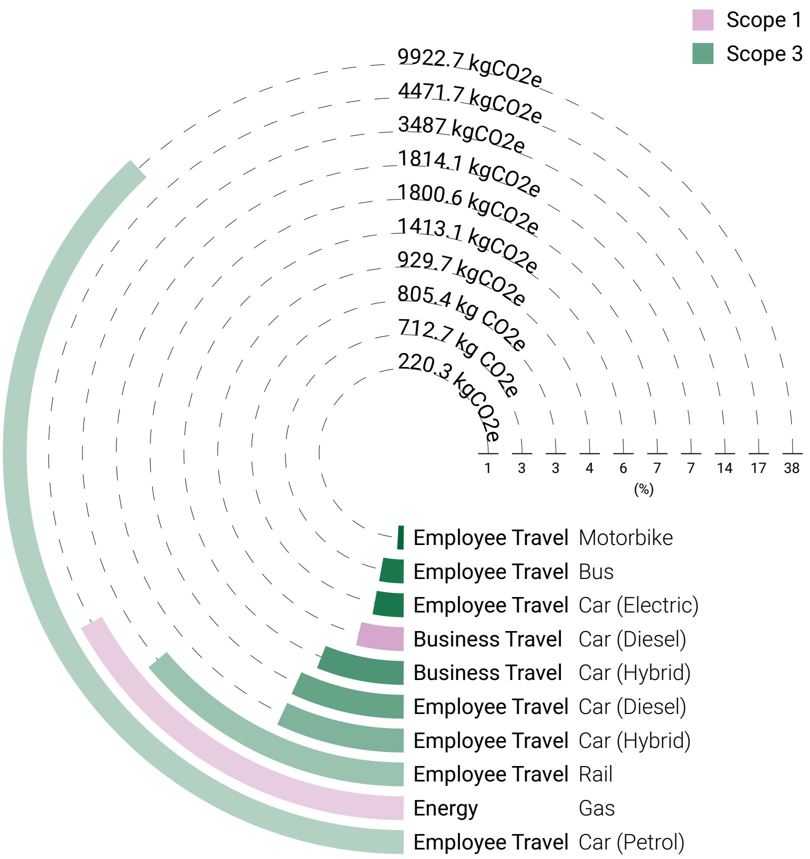
Sustainability is a core value at **MAST Architects**, and we are committed to helping our clients achieve their Net Zero Carbon goals. We do this through both energy-conscious design and the sustainable delivery of our consultancy services.

This document has been prepared by the **MAST Architects Carbon Reduction Team** to outline our internal carbon assessment and analysis process.

It provides an overview of our assessment methodology and carbon footprint, while identifying opportunities for both current and future improvements in the scope of our measurements and overall carbon impact.

Our approach is driven by our commitment to support and align with the goals of **Architects Declare**, a network of architectural practices dedicated to addressing the climate and biodiversity crises.

For additional details, please refer to **Appendix A**.



CARBON REPORTING SCOPE

We have been measuring and reporting our carbon footprint since 2021, allowing us to establish a baseline and set actionable interim targets to support our goal of achieving **Net Zero by 2045**. Our reporting has enabled us to identify the areas of our business that contribute most to our emissions and to implement targeted actions to reduce our impact. Appendix B includes a summary of the measures considered and implemented to date.

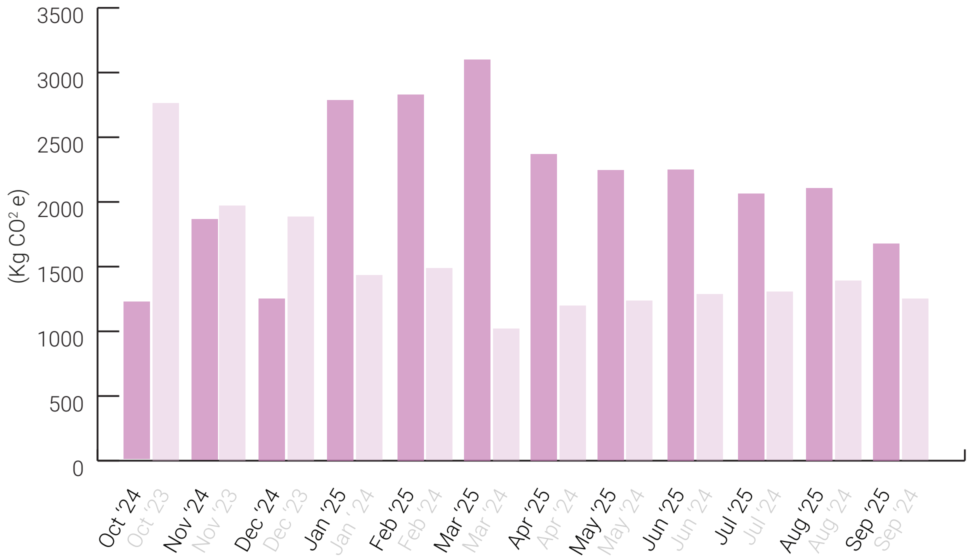
Currently, we measure the following emissions;

- **Scope 1 Emissions**: Direct emissions from heating our office building and use of company vehicles to attend in person meetings and site visits.
- **Scope 2 Emissions**: Indirect emissions from the purchased electricity used to power our office building.
- **Scope 3 Emissions**: Indirect emissions from employee commuting and use of rented vehicles to attend in-person meetings and site visits.

We measure our carbon footprint using **Notch** (formerly CBN Expert), which has enabled us to establish our baseline emissions for the period from October 2021 to September 2022. This baseline allows us to compare current emissions, assess the impact of the carbon-saving measures we've implemented, and identify areas for future improvement.

It is important to note that the emissions recorded in our baseline year were influenced by the COVID-19 pandemic. Our carbon reporting for 2022-2023 reflects the end of the pandemic, with the resumption of in-person activities, including a return to office-based work. Additionally, during this period, we experienced a significant increase in staff numbers.

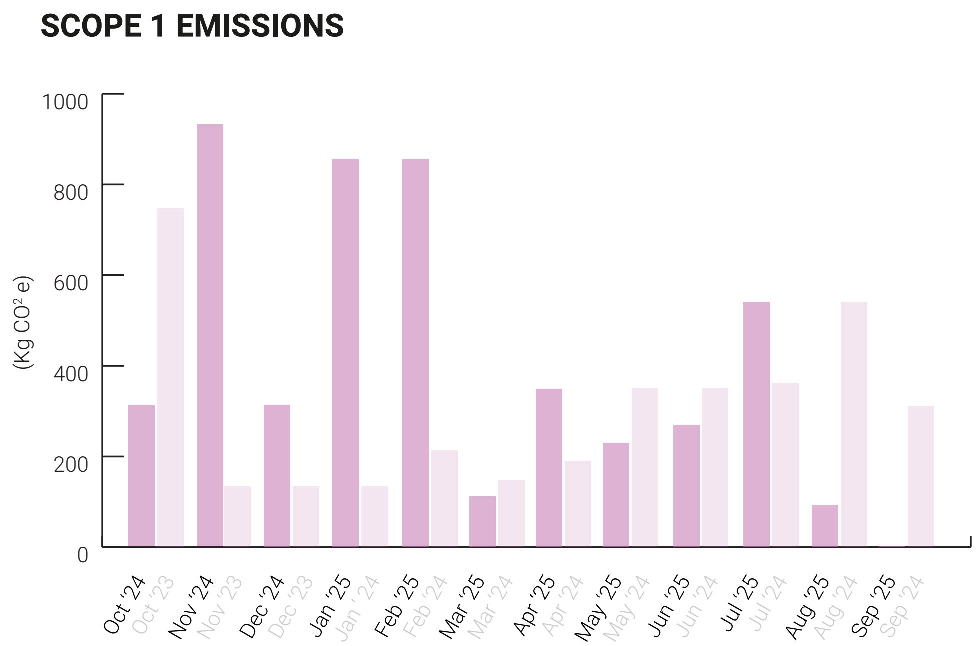
TOTAL CARBON EMISSIONS



CARBON SUMMARY

In the 2024/2025 period, our total carbon emissions were **25,833 kgCO²e**, reflecting a 42% increase compared to the previous year. Despite fluctuations in the size of our practice, emissions per employee have increased to **759.8 kgCO²e**.

Notably, our emissions have been affected by an increase in days that employees are working in the office and more accurate reporting on our energy usage thanks to the installation of smart meters to both electric meters and one of the gas meters. We are currently showing and increase of 41% from our baseline figure which was 18,369 kgCO²e. This demonstrates the significant impact of accurate reporting on figures and the impact that staff commuting has on our footprint.



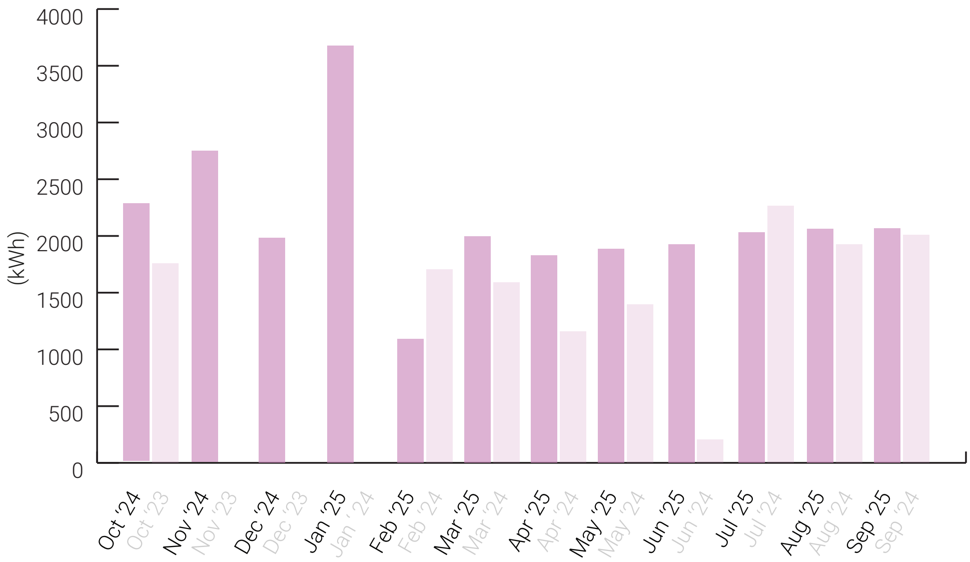
SCOPE 1 EMISSIONS

Our **Scope 1 Emissions** appear to have **increased by 33%** over the past year, we believe this is primarily due to more accurate reporting on our usage and a change in one of the two gas meters within the office at the start of the year. Over a number of months, we have used less gas than the previous year which we feel is a direct result of the energy-saving measures we've implemented in previous years, including installing advanced heating controls and implementing an office heating policy, which are now yielding notable carbon benefits.

We have explored additional fabric improvement measures, such as secondary glazing and attic insulation, to further reduce our heating demand and gas consumption. In 2023 Business Energy Scotland carried out an Energy Efficiency Assessment on our behalf which included a cost benefit analysis of these measures. Where previously cost-prohibitive, these measures are now being investigated with a hope to installing them in 2026/27. For further information on the Business Energy Scotland Energy Efficiency Assessment refer to Appendix C.

Conversely, our Scope 1 emissions from business travel have decreased by 65% as we have changed from two company owned diesel vehicles to a single rented hybrid diesel and have been utilising the Co-Wheels scheme which allows employees to rent out hybrid cars on an ad-hoc basis. This has moved the business travel emissions to Scope 3.

ELECTRICAL ENERGY USE



SCOPE 2 EMISSIONS

In December 2021, we transitioned to a carbon-neutral energy supplier (Octopus Energy), effectively reducing our **Scope 2 Emissions** to zero.

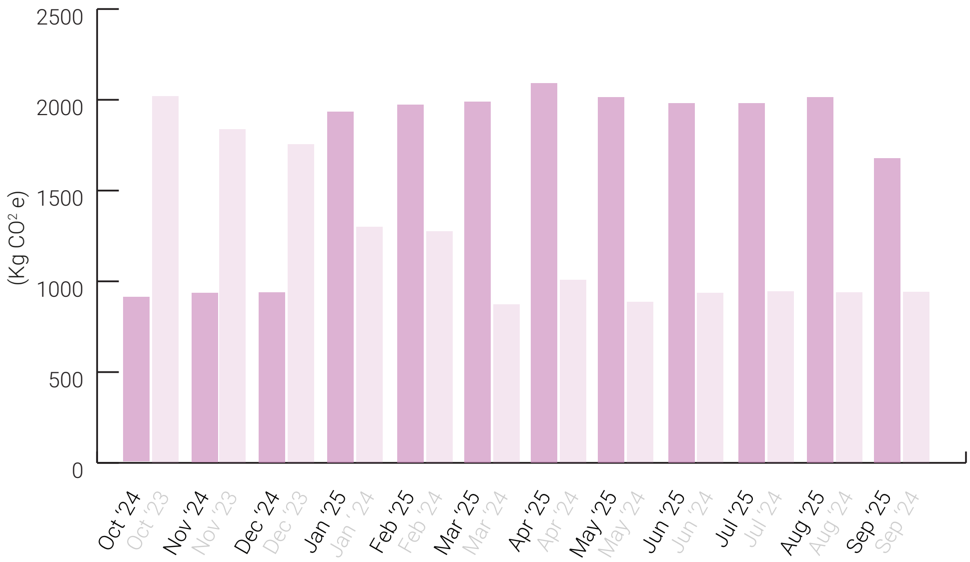
We also recognize the broader benefits of reducing our electricity demand, including easing pressure on the electrical grid. Over the past few years we have implemented several energy saving measures including;

- Installing motion-activated light sensors in ancillary rooms
- Installing power-saving software on workstations
- Reducing the number of printing facilities

These measures continue to have an impact resulting in a **7%** reduction in our electrical energy consumption from our baseline. This year both electrical meters were updated to smart meters providing real-time readings rather than estimates which will provide us with a more accurate picture of our usage.

The Business Energy Scotland Energy Efficiency Assessment also included a cost benefit analysis of installing PV panels. Again this proved to be cost prohibitive, however, we are considering their installation in the near future and investigating grant schemes that could make it more financially viable.

SCOPE 3 EMISSIONS



SCOPE 3 EMISSIONS

Our **Scope 3 Emissions**, primarily resulting from employee commuting and business travel, have increased by **22.9%** compared to the previous year. This is largely due to the change from company owned vehicles to a single rented vehicle moving the emissions from Scope 1 to Scope 3. You can clearly see the effect of this change in our emissions from January 2025. We have also changed our working from home policy in order to aid collaboration in the office so that employees are required to work in the office 4 out of 5 days. This has led to an increase in commuting emissions.

As employee commuting remains the largest contributor to our emissions, we will prioritise this area in the coming year. Our goal is to encourage employees to use active transportation and public transport for their commutes by offering incentives and exploring other sustainable options such as utilising the Cycle to Work Scheme.

Additionally, we have expanded our **Scope 3 Emissions** monitoring to include other sources, particularly emissions related to waste. These results have been excluded from this report so as not to skew the comparison with the previous year however we have included current figures in Appendix E. We aim to continue to expand the scope of coverage for Scope 3 by including our digital carbon and working from home. By tracking and reporting on these emissions, we aim to further minimize our environmental impact.

CARBON OFFSET

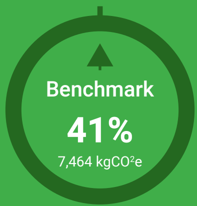
While we are taking meaningful steps to reduce our carbon footprint, we acknowledge that achieving zero emissions is not yet feasible. We are currently investigating certified carbon offset schemes that are financially viable, have a notable positive impact on the environment and are local to Scotland.

A scheme we were previously involved in was Trees For Life which are actively planting trees to re-wild the Scottish highlands and the Caledonian Forrest.

CONCLUSION

We have made notable progress in implementing measures to reduce our carbon emissions, however, we recognize that most of our current savings are the result of reduced gas consumption. We also acknowledge that the rise in in-person meetings and staff commuting remain challenging to overcome. Planning improvements to our building fabric and the installation of PV panels in the coming years will help drive further reductions in our Scope 1 and 2 emissions. In parallel, we will prioritise reducing emissions in other high-impact areas, including business travel and employee commuting.

We are committed to developing a comprehensive carbon reduction plan this year, aiming to cut our carbon footprint by **90%** by **2040** and achieve **100%** reduction by **2045**. To guide us in this journey, we have set clear five-year targets, as outlined in Appendix D.



Business Travel
9.06% of Total
11.4% Decrease

Energy
17.15% of Total
376% Increase

Employee Commute
73.79% of Total
36% Increase

Carbon Comparison by Category

APPENDIX A

Architects Declare is a network of architectural practices committed to addressing the climate and biodiversity emergency.

MAST Architects are committed to and support **Architects Declare** and will seek to:

https://www.architectsdeclare.com

- Raise awareness of the climate and biodiversity emergencies and the urgent need for action amongst our clients and supply chains.
- Advocate for faster change in our industry towards regenerative design practices and a higher Governmental funding priority to support this.
- Establish climate and biodiversity mitigation principles as the key measure of our industry's success: demonstrated through awards, prizes and listings.
- Share knowledge and research to that end on an open source basis.
- Evaluate all new projects against the aspiration to contribute positively to mitigating climate breakdown, and encourage our clients to adopt this approach.
- Upgrade existing buildings for extended use as a more carbon efficient alternative to demolition and new build whenever there is a viable choice.
- Include life cycle costing, whole life carbon modelling and post occupancy evaluation as part of our basic scope of work, to reduce both embodied and operational resource use.
- Adopt more regenerative design principles in our studios, with the aim of designing architecture and urbanism that goes beyond the standard of net zero carbon in use.
- Collaborate with engineers, contractors and clients to further reduce construction waste.
- Accelerate the shift to low embodied carbon materials in all our work.
- Minimise wasteful use of resources in architecture and urban planning, both in quantum and in detail.
- Support those who are working for climate justice and strive to ensure equity and an improved quality of life for all.

Initiative	Implemented	Date	Impact
Scope 1 Emissions			
Trial closure of the office on Monday's	Yes– temporarily	2022	Measure had very minimal impact as office remained open to key office based staff – measure was not continued
Installed advanced heating controls	Yes	2022	Reduced gas consumption and scope 2 emissions
Implemented Office Heating Policy	Yes	2022	Reduced gas consumption and scope 2 emissions
Implemented Virtual Meeting Policy	Yes	2023	Difficult to quantify as emissions were not measured pre-pandemic, however assume this has re-duced emissions
Install loft insulation	No	2023	Being reviewed for 2026/27 install
Install secondary glazing	No	2023	Being reviewed for 2026/27 install
Replace business cars with hybrid electric vehicle	Yes	2025	Implemented in Jan 2025, 11% decrease in emissions
Insulate boiler pipes	No	2025	To be investigated

APPENDIX B

Since we began measuring and reporting our carbon footprint in 2021 we have considered and implemented a number of measure to reduce our emissions, summarised above. We are also hoping to raise awareness within the office through in-house CPDs highlighting ways that employees can help reduce our carbon footprint.

Initiative	Implemented	Date	Impact
Scope 2 Emissions			
Switched to carbon neutral energy supplier	Yes	2021	Reduced scope 2 emissions to zero
Installed motion-activated lights in ancillary rooms	Yes	2022	Reduced electrical energy consumption
Installed power-saving software on workstations	Yes	2022	Reduced electrical energy consumption
Reduced the number of printing facilities	Yes	2022	Reduced electrical energy consumption
Install PV panels	No	2024	Costs and potential grant funding being investigated with hope to install by 2028
Replace remaining lights with LEDs	No	2025	To be investigated

Initiative	Implemented	Date	Impact
Scope 3 Emissions			
Reduced office working days to 3	Yes	2022 - 2024	Difficult to quantify as emissions were not measured pre-pandemic, however assume this has reduced emissions
Increased office working days to 4	Yes	2025	To improve collaboration office working days has increased to 4, increase in staff commuting emissions by 36%
Minimise waste and avoid sending to landfill	No	2025	Waste has started being tracked within the office, we will have base figures for 2025-26 and will investigate ways to reduce.
Use local suppliers and encourage supply chain to calculate their carbon footprint	No	2025	Existing supply chain to be reviewed and changes made where appropriate/feasible.

RECOMMENDED OPPORTUNITIES

	Finance Estimates						Annual Environmental Saving Estimates	
Description	Annual Cost Savings	Annual Income Generated	Investment Required	Payback	Potential Grant	Payback with Grant	Energy	CO2e
	£ (ex. VAT)	£ (ex. VAT)	£ (ex. VAT)	Years	£	Years	kWh	Tonnes
Solar PV	1,752	201	11,826	6.1	0	6.1	6,046	1.4
Flat Roof Insulation	680	0	6,000	8.8	4,500	2.2	3,775	0.7
Secondary Glazing	350	0	21,000	60	0	60	1,900	0.4
Total	£ 2,782	£ 201	£ 38,826	-	-	-	11,721	2.5

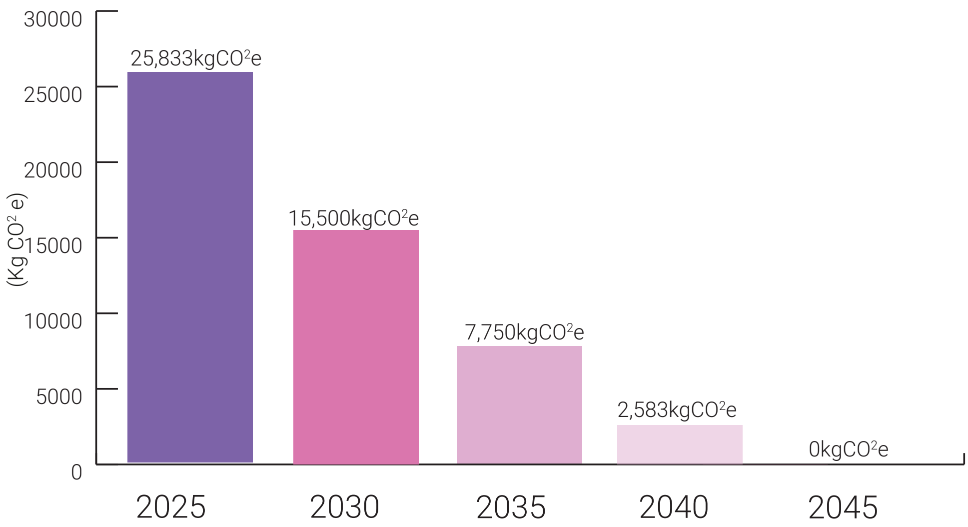
APPENDIX C

The **Business Energy Scotland Energy Efficiency Assessment** identified the following measures which could be implemented and the associated reduction in CO2 emissions annually;

- Solar PV 1400kgC02e
- Loft Insulation 700kgC02e
- Secondary Glazing 400 kgC02e

The report also provided an approximate cost for installation of each of the measures and in turn a payback period. Costs have proven prohibitive so far, however, the all three are being investigated further alongside grant funding with a hope to install over the next 3 years.

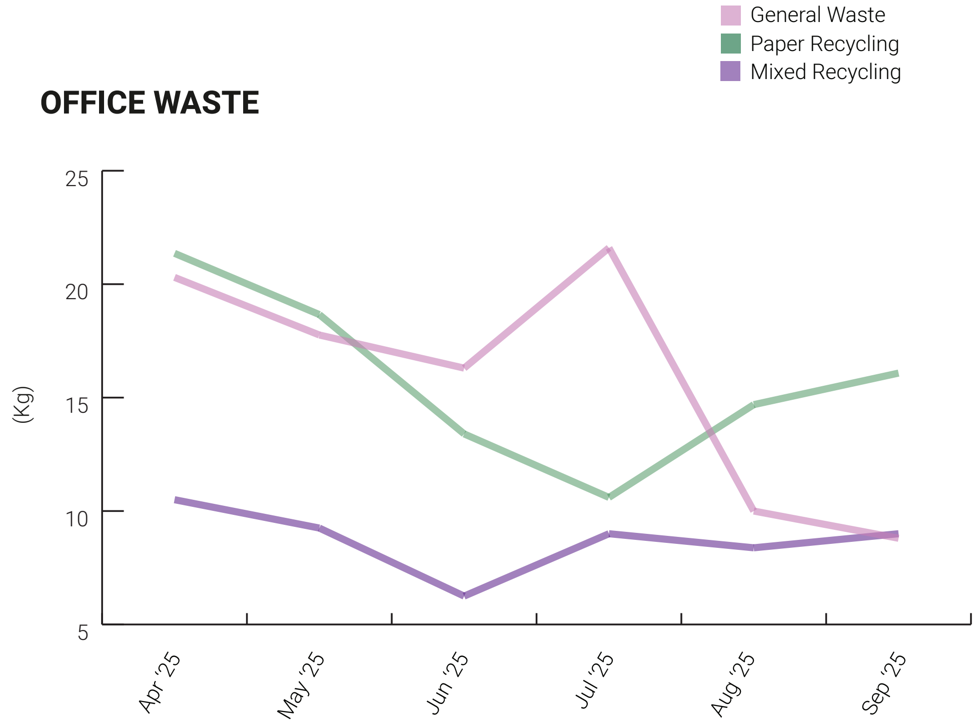
CARBON REDUCTION TARGETS



APPENDIX D

We are committed to developing a comprehensive carbon reduction plan this year, aiming to cut our carbon footprint by **90%** by **2040** and achieve **100%** reduction by **2045**. To guide us in this journey, we have set clear five-year targets, as outlined in Appendix D.

OFFICE WASTE



APPENDIX E

We started to track our waste in April 2025 with a view to gather data on the total amount of waste and what percentage of that is recycled. Our aim is to reduce our overall waste an increase the recycling percentage.

From April-September 2025 we had a total of 241.9kg of waste, 60.8% of which was recycling, exceeding our goal of reaching 50% by the end of 2025. Our aim for 2026 is to achieve 80% recycling.

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