# ZERO CARBON OPERATIONS REDUCTION TRAJECTORY

**H0025** (02)

ALLFORD HALL MONAGHAN MORRIS

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# Introduction

This report outlines Allford Hall Monaghan Morris' (AHMM) headline approach to a carbon reduction commitment to achieve Net Zero Emissions by 2050 to be verified by the Science Based Targets Institute.

AHMM is a Professional Services organisation - a general architectural practice, designing buildings in all sectors. Our carbon reduction targets covers Scopes 1, 2 and 3 of emissions

**Our work**
is driven by a strategic approach to design which recognises that changes in circumstance and context, both during the design and during the life of the building, are inevitable.

**AHMM has**
around 500 full time equivalent staff working in five locations. Two in London and one office in Bristol, Madrid and Oklahoma City.

**We aim**
to address and enhance our projects' relationship with both the public it serves and the public spaces that surround it, not least by bringing visual delight.

**Our designs**
should do more with less; set the best standards of design, regardless of cost or programme; and be open-minded, generous of spirit and ever optimistic.
Our focus is architecture – and the endless testing of the boundaries of its application.

# Temperature Based Goal

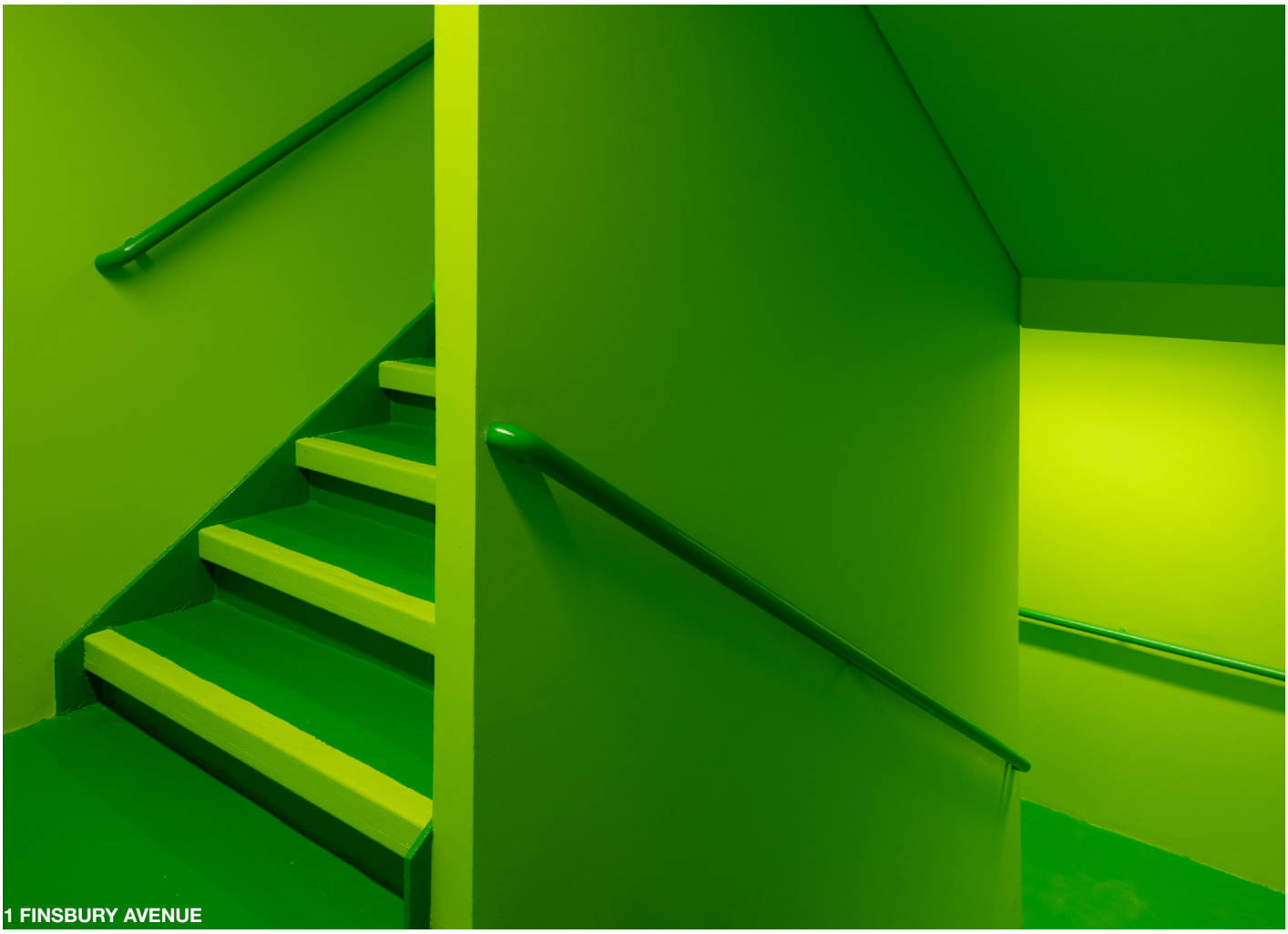
## AHMM has signed up to the Science Based Targets initiative 'Business Ambition for 1.5 °C'.

Companies signing this document commit to policy advocacy positions consistent with a 1.5 °C future. Companies are urged to advocate at key international moments, and in the countries in which they operate and have influence, for supportive government policy and goals that will deliver a net-zero emissions economy by no later than 2050.

In signing up to this goal, AHMM has also committed to the United Nations Framework Convention of Climate Control's (UNFCCC) Race to Zero campaign.

Race To Zero is a global campaign to rally leadership and support from businesses, cities, regions, investors for a healthy, resilient, zero carbon recovery that prevents future threats, creates decent jobs, and unlocks inclusive, sustainable growth.

The targets mean that AHMM's carbon reduction pathway is be aligned with agreed carbon emissions reduction strategies consistent with the agreed level of de-carbonisation required to keep global temperatures below 1.5 °C.



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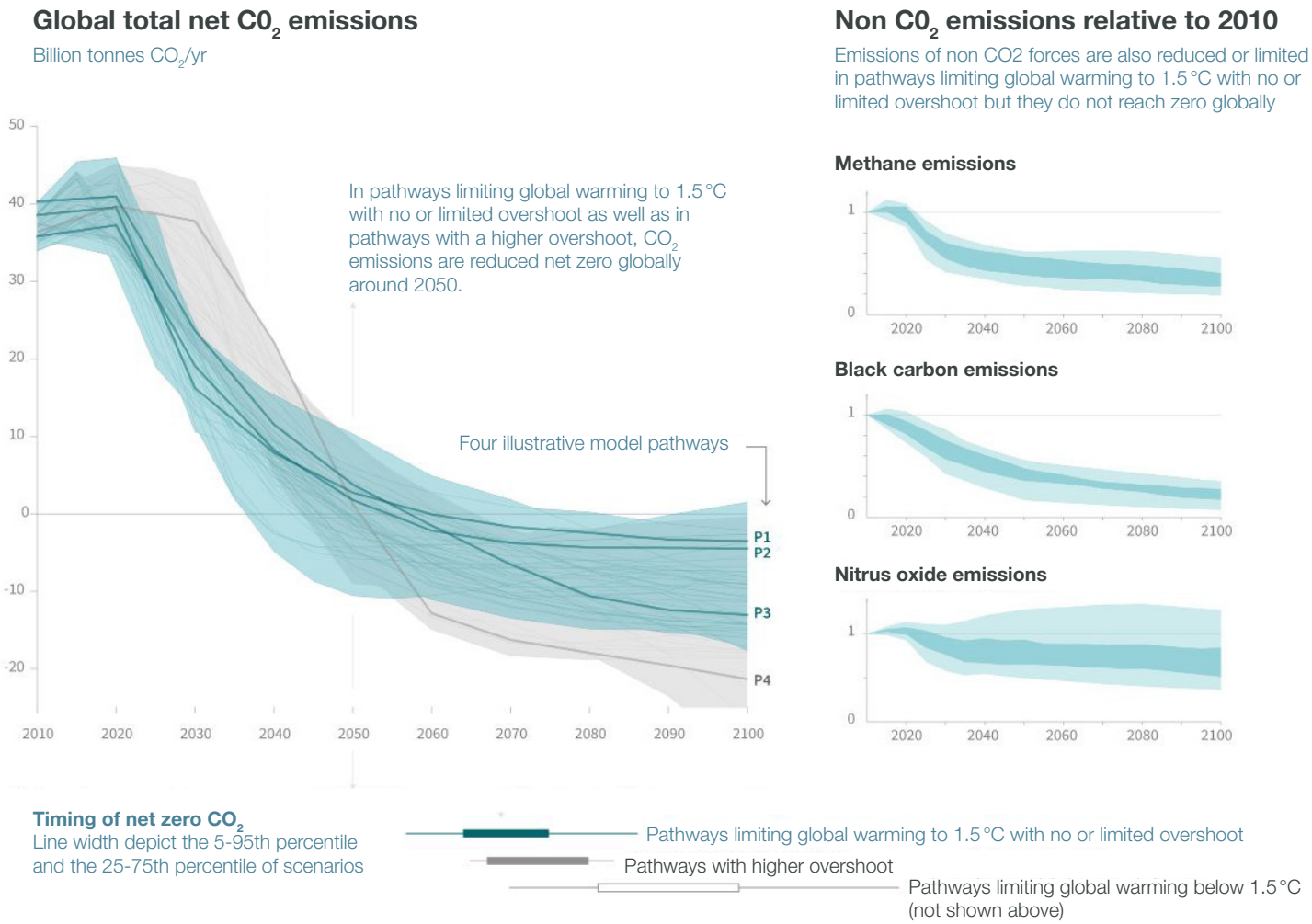
# Global emissions pathway characteristics

General characteristics of the evolution of anthropogenic net emissions $CO_2$, and total emissions of methane, black carbon, and nitrous oxide in model pathways that limit global warming to 1.5 °C with no or limited overshoot. Net emissions are defined as anthropogenic emissions reduced by anthropogenic removals.

**Figure 1** *source: IPCC Special Report on Global Warming of 1.5 °C*
IPCC Special Report on Global Warming of 1.5 °C sets out emission reduction pathways to maintain 1.5 °C levels of warming. Note the dramatic reduction in emission required immediately.



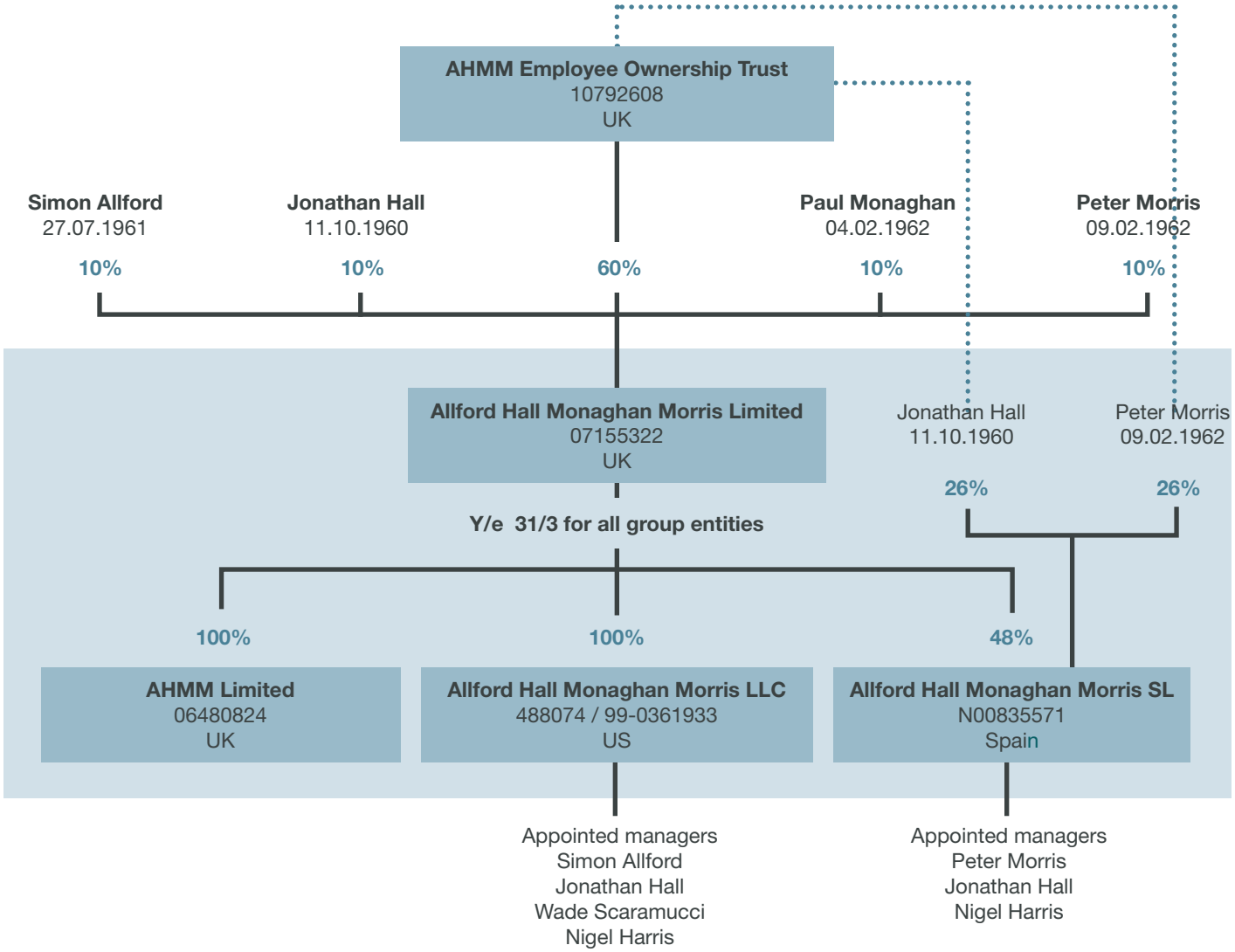
# Target Boundary

## The organisational Boundary set at the AHMM Ltd level.

This encompasses our London and Bristol offices. Subsidiary offices in Oklahoma (USA) and Madrid (Spain) are also included in our long term targets.

The organisational boundary is therefore as defined by the GHG Protocol Standard and is consistent with our financial accounting.

**Figure 2**
AHMM's structure and operational boundary



## GHG Scope Coverage

Targets cover company-wide scope 1 and scope 2 emissions, as defined by the GHG Protocol Corporate Standard. As AHMM's scope 3 emissions are more than 40% of our total emissions, a target is also set for these. Our emissions are calculated using SBTi criteria V5.0.

## Scope 1 + 2 target & criteria

AHMM operate in the Professional Services sector and as such, a Sectorial Decarbonisation Approach is not applicable to us. An Absolute Contraction factor is therefore applied.
Scope: 2 AHMM use a location approach for Scope 2 emissions accounting, based on table 4.1 of the GHG Protocol guidance.

## Scope 3 target & criteria

Targets also set one or more emission reduction targets and/or supplier or customer engagement targets that collectively cover(s) at least two-thirds (67%) of total Scope 3 emissions.
AHMM will align with the same agreed carbon emissions reduction pathways consistent with the agreed level of decarbonisation required to keep global temperatures below 1.5 °C.

AHMM have no bioenergy, carbon credits or avoided emissions to account for.

Transport Emissions are calculated on a 'Well to Wheel' basis, although all of AHMM's transport emissions are through public transport. There are no private car emissions.

**Figure 3**
AHMM's existing energy and sustainability reporting


# Ambition

AHMM's target for their operational emissions to be brought in line with reductions consistent with 1.5 °C warming.

### Long term target

For a Science Based Target, base and target years should cover between 5 and 10 years from the date of submission.

Long term target: to be consistent with the level of decarbonisation required to keep global temperatures below 1.5 °C.

Base year: All targets will be based on the same base year, we use 2019.

### Near term targets

Absolute reductions must be at least as ambitious as the minimum of the approved range of emissions scenarios consistent with the 1.5°C goal.

Intensity targets: Intensity targets for scope 1 and scope 2 emissions are only eligible when they are modelled using an approved 1.5°C sector pathway applicable to companies' business activities. AHMM has selected the most ambitious decarbonisation strategy.

Near-term Scope 3 targets will also drive the adoption of science-based emission reduction targets by their suppliers and/or customers.

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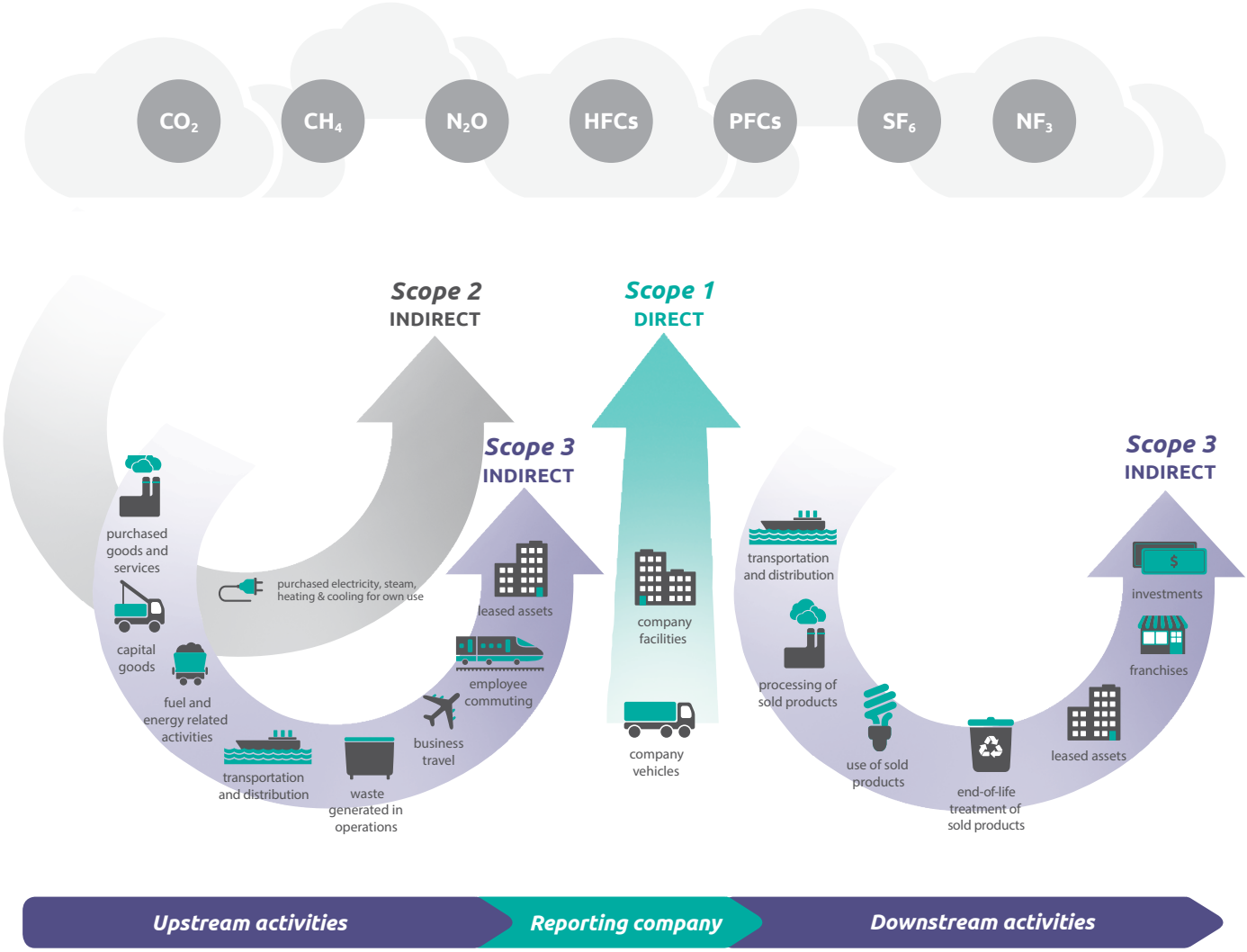
**Figure 4** *World Resources Institute & World Business Council for Sustainable Development, 2013*
The Green House Gas Protocol scope boundaries



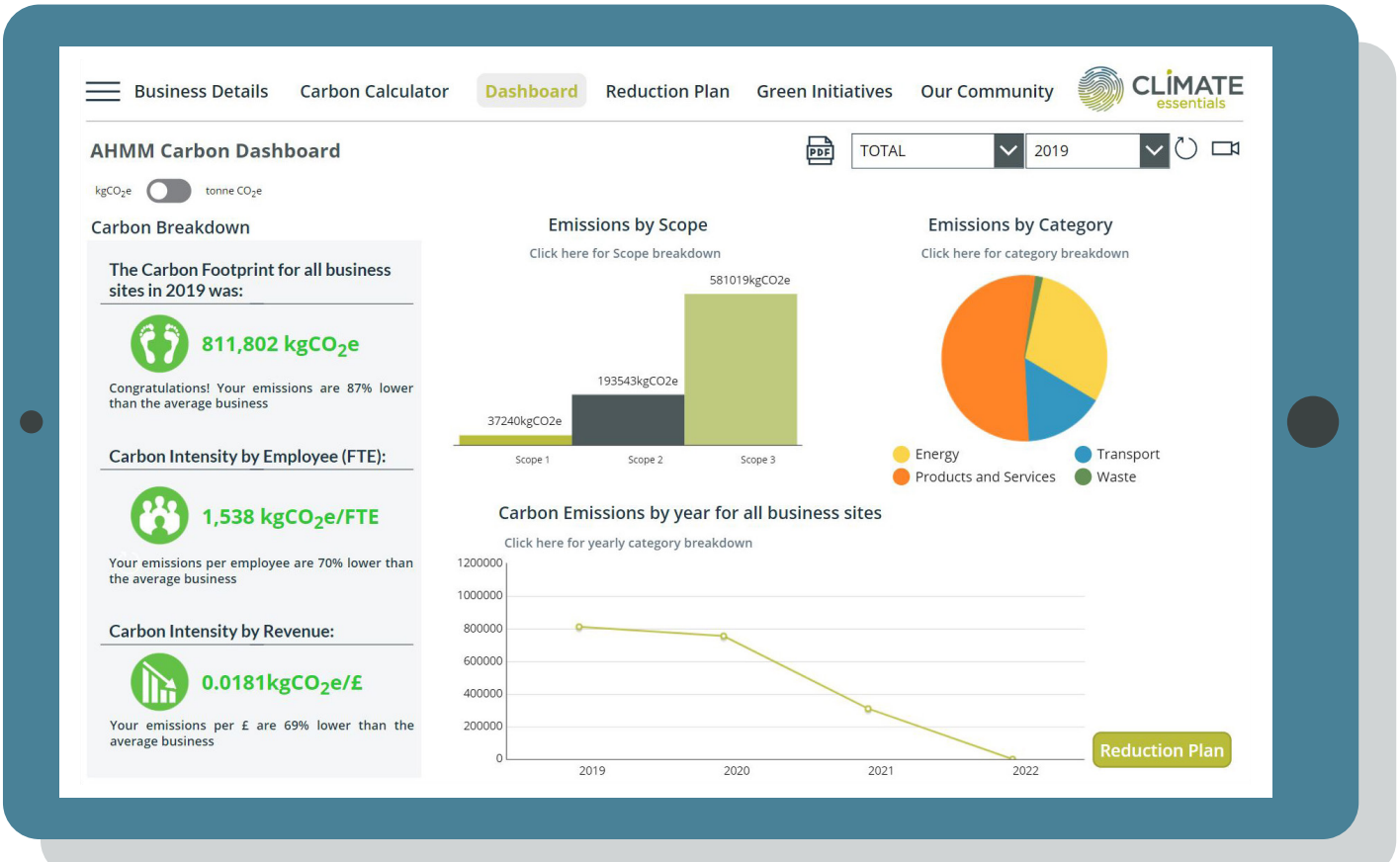

*ghgprotocol.org*

# Reporting

The SBTi recommends disclosure through standardized, comparable data platforms.

AHMM use Climate Essential dashboarding to collate and communicate our carbon emissions internally via our intranet.

**Figure 5**
AHMM's 'Climate Essentials' dashboard

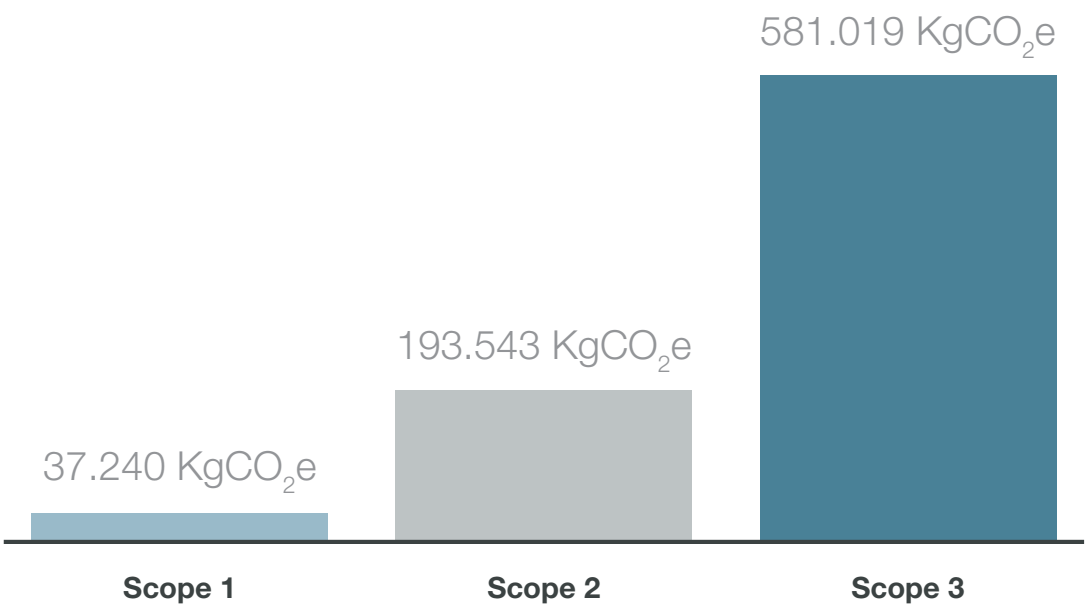


# Base Year

This report uses 2019 as a base year for $CO_2$ emissions, as this was the last year of typical office use prior to the Covid-19 pandemic.

Our total emissions are 811 tonnes per annum.
The majority of which are under scope 3.

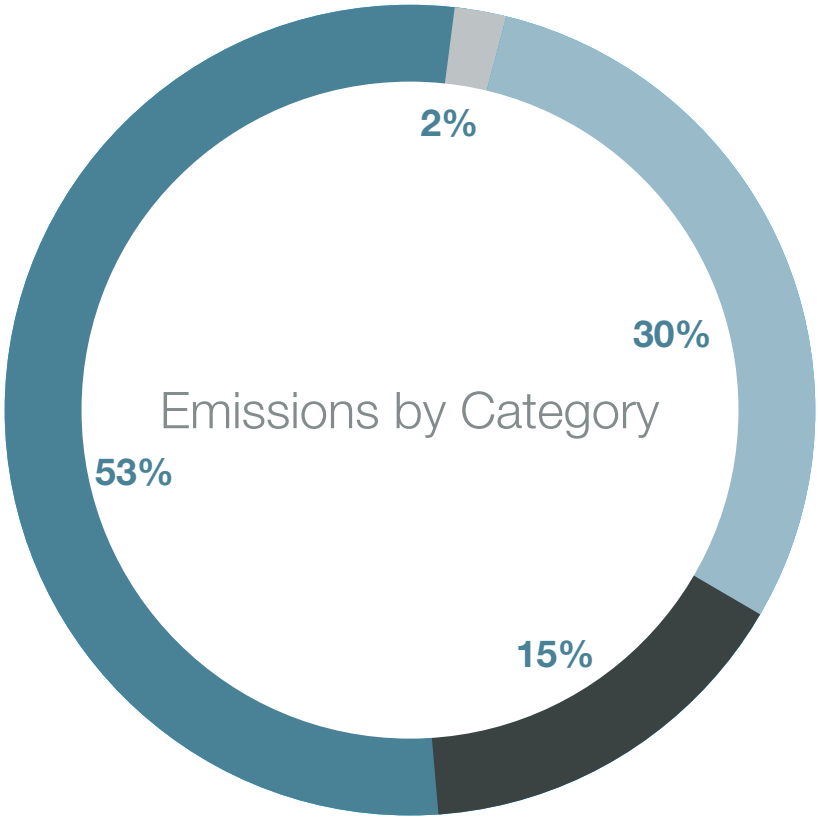
**Figure 6**
AHMM's base year emissions by Scope



# Categorical Emissions

Half of AHMM's emissions are generated by the products and services we buy.

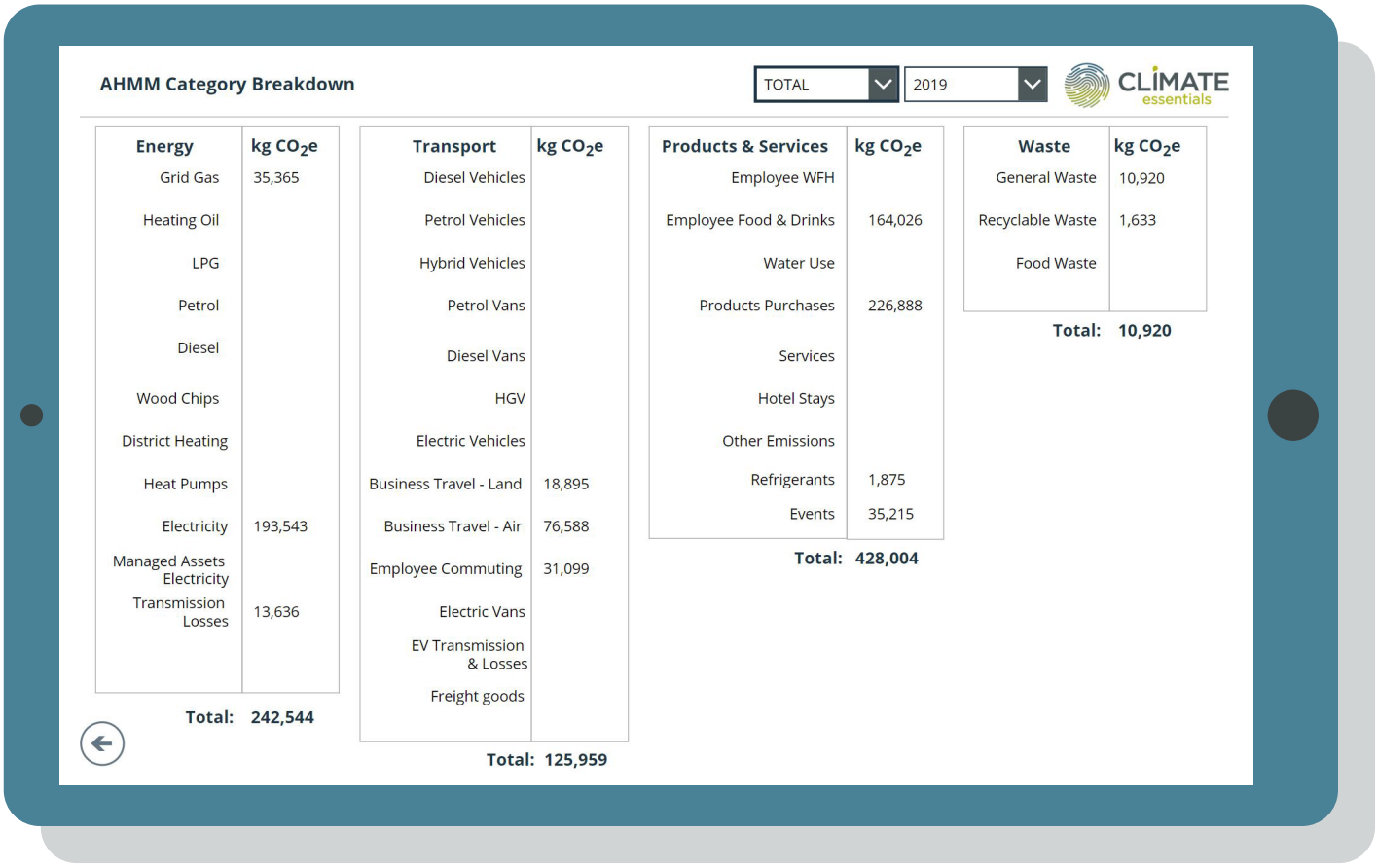
**Figure 7**
Emissions by Category




Energy | Products & services | Transport | Waste

The breakdown below shows where AHMM's emissions are generated - energy, product purchases and travel.

**Figure 8**
AHMM's' emission by category broken down to source



# Reduction Trajectory

The SBTi tool defines reduction trajectories based on our Scope 1 and 2 emissions and a target year of 2030.

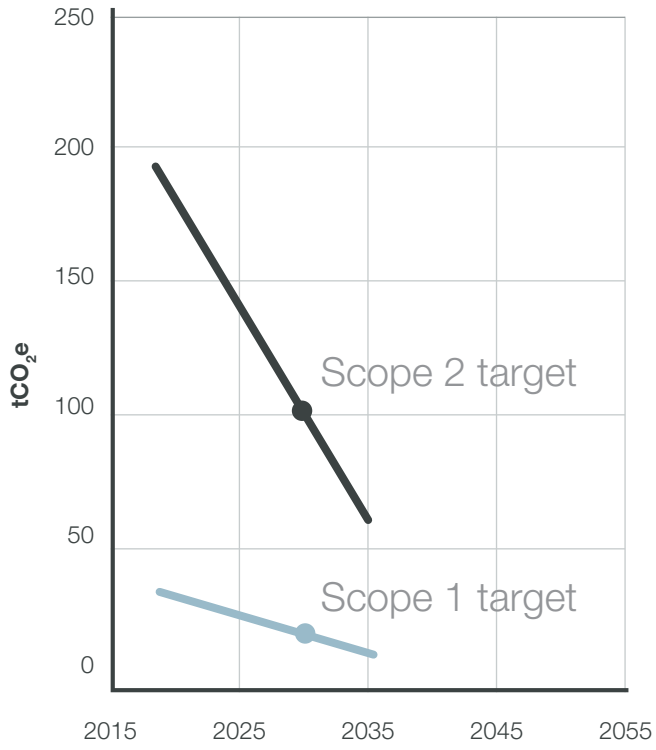
A reduction in line with 1.5oC warming means a 46% reduction in emissions based on our 2019 base year.

**Figure 9**
AHMM's' scope 1 and 2 emission reduction trajectories

## 1.5 degree scenario (1.5 °C)

| Scope | Base year (2019) | Target year (2030) | % Reduction |
|---|---|---|---|
| **Scope 1 emissions ($tCO_2e$)** | 35 | 19 | 46.2% |
| **Scope 2 emissions ($tCO_2e$)** | 193 | 104 | 46.2% |
| **Scope 1+2 emissions ($tCO_2e$)** | 228 | 123 | 46.2% |

**Figure 10**
Scope 1 and 2 reduction trajectories illustrated




Absolute emissions targets | 1.5 °C

**Scope 1**

**Scope 2**

The table below shows our Scope 3 reduction trajectory.

**Figure 11**
AHMM's' Scope 3 emission reduction trajectories

## Section 2. Absolute Contraction Approach

| Scope | Base year (2019) | Target year (2030) | % Reduction |
|---|---|---|---|
| **Company \| Scope 3 emissions - 2C ($tCO_2e$)** | 544.0 | 470.4 | 13.5 % |
| **Company \| Scope 3 emissions - WB2C ($tCO_2e$)** | 544.0 | 394.4 | 27.5 % |
| **Company \| Scope 3 emissions - 1.5 °C ($tCO_2e$)** | 544.0 | 292.7 | 46.2 % |


BURNTWOOD SCHOOL

# Zero Carbon Plan

This report has outlined our AHMM's approach to achieving net zero carbon operationally from a base year and following the Science Based Targets trajectory in line with 1.5 °C mean global warming.


BUILDING
3

# Our Plan

## AHMM's path to Net Zero Carbon emissions starts here.

Our data collection gives clear insight into where our emissions occur. Departmental plans are being drawn up to develop reductions across all categories driven by those with financial responsibility for those emissions.

## Finance

As our Scope 3 emissions are the majority of AHMM's footprint, our Finance team play a crucial role in decision making. A new procurement process has been implemented to identify carbon associated with purchases and support making decisions based on low carbon options.

## Facilities

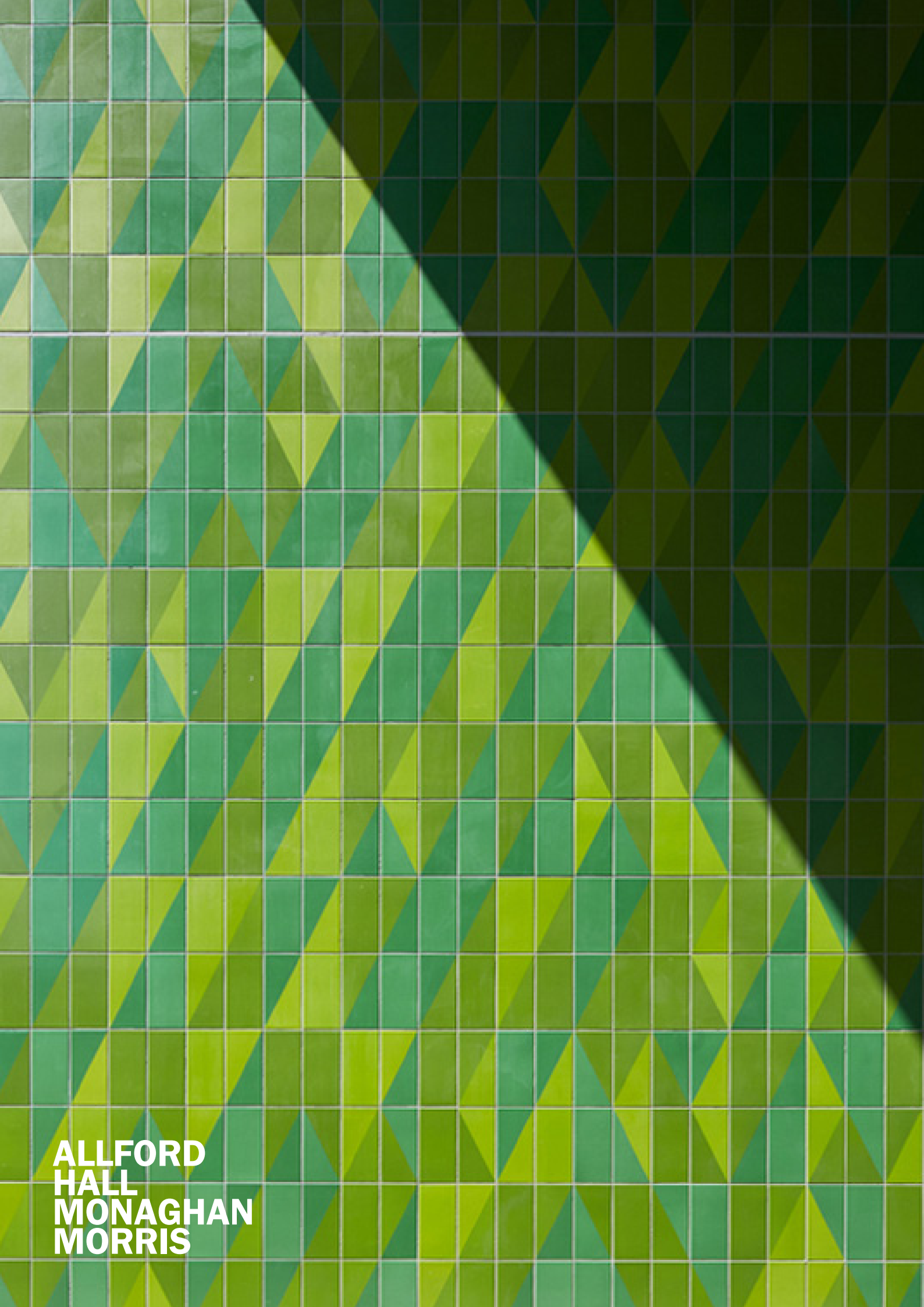
Our Facilities team are in control of much of our Scope 1 and 2 emissions. We have embarked on a series of managerial measures to improve the efficiency and comfort of our offices using energy and indoor air quality monitoring. This will be extended to more fundamental infrastructural changes in the coming years to deliver our zero carbon plan on time.

## Support

Administrative support teams oversee a large proportion of Scope 3 emissions predominantly through booking, organising and coordinating transport. A strategy is being drawn up with these teams to set emissions reduction plans that reduce the number of journeys and the amount of associated emissions for those journeys that are still necessary.

## Architects

AHMM's core function - designing buildings - means it has a large influence over the carbon emissions associated with the built environment. While these emissions are not 'owned' by AHMM, we hope that the culture created by driving our operational emissions to net zero will help our raise awareness of the impacts of the decisions of both our design and client teams.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