



Net Zero 2024

Our roadmap to 2034

Buttress

2024



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“Our route to Net Zero is a challenge that has an impact on everything we do as a practice.”

Neal Charlton,
Director and Net Zero lead

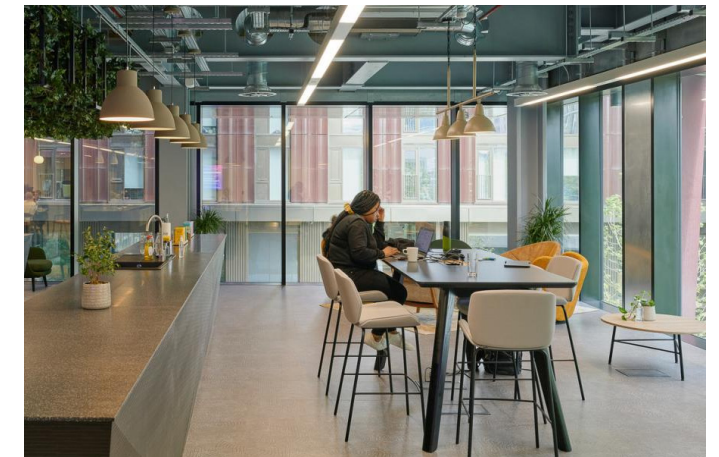
Reduce now, offset later...

This document includes everything a Net Zero Roadmap should: our baseline assessment, our short term goals and long term strategy. A clear commitment to be Net Zero in ten years, by 2034.

At Buttress, taking action to reduce our impact on the planet has been core to our values for a long time. All our projects reduce operational energy using low-energy systems and renewables. Adaptive reuse of historic buildings also reduces embodied carbon and waste and facilitates the circular economy and can be seen as the most sustainable thing that we, as Architects, can do.

But we also need to focus on the impact of our practice. How our day to day operational activities have an impact on our world. This Net Zero Roadmap sets out our current impact and how we are going to actively reduce this to Net Zero by 2034.

So, we'd like to share our journey, and bring you with us. Think of it as part strategy, part talking point, and part call to action.



Architecture for an equitable tomorrow



“This roadmap shows how we will reduce our impact on the planet, not simply by offsetting, but by changing the way we work.”

A word from Gavin

“At Buttress, taking action to reduce our impact on the planet has been core to our values for a long time. This roadmap shows how we will reduce our impact on the planet, not simply by offsetting, but by changing the way we work.

Our strategy shows a clear commitment to reduce our impact significantly before we offset. We believe that this is done by balancing People, Planet and Profit.

Our target - to be Net Zero by 2034 is a promise to achieve our target four years ahead of Manchester’s target of 2038 - aligning our commitment with our partners and collaborators.

We’ve aimed to maximise the usefulness of this roadmap. Alongside detailing how we have benchmarked our emissions, we’ve included details of how we will achieve our goals. We hope it will offer helpful insight that you might be able to adopt in your own journey.

We’re eager to learn about your approach to carbon reduction. We’re in this for the long haul, and by sharing experiences and ideas, we hope you are too.”

Our journey so far

Our commitment is to reduce our impact on the planet through reducing our carbon emissions over the next 10 years and achieve Net Zero by 2034.

Over the past year we've worked to fully understand our current carbon footprint. We have, for a number of years been managing our carbon impact by using Planet Mark, an independent certification that measures our Scope 1, Scope 2 and key Scope 3 components. We have made a pledge to reduce these by a minimum of 5% each year as we drive down our impact on the planet. But this is not enough. We will never achieve zero by maintaining a year-on-year reduction. This is why we have developed in-house tools to allow us to fully calculate all scope 1, 2 and 3 emissions and formulate our plan to achieve Net Zero by 2034. This allows us to articulate our purpose, 'architecture for an equitable tomorrow.'



2034



Our carbon journey

Becoming Net Zero is not a challenge that we take lightly. It takes planning and investment to ensure we set aspirational but achievable targets that balance our B Corp principles of people, planet and profit.

We started by using Planet Mark to measure our Scope 1, 2 and some Scope 3 emissions. We have made huge strides as we have actively reduced these measures significantly. Since certifying with Planet Mark in 2022, we have already reduced emissions as measured by Planet Mark with a 33.5% reduction in our absolute carbon (total emissions) and a 39.2% carbon reduction per employee.

But we need to do more. We are now in a position to measure our Scope 1, 2 and 3 emissions fully, aligning with the Greenhouse Gas Protocol. This is a globally recognised

framework for the measurement of emissions, using a set of published standards and guidelines. This allows us to create our own carbon footprint benchmarking from our 2023 data. We have calculated our total emissions to baseline at 93 tCO₂e. Whilst we continue to reduce our Scope 2 emissions and we start to tackle our Scope 3 emissions, we have committed to eradicating all Scope 1 emissions from our practice by 2028.

Our overall aim is to achieve a 50% reduction in our combined Scope 1, 2 and 3 market based emissions by 2028. This has been calculated

We have committed to eradicating all Scope 1 emissions from our practice by 2028.

by identifying our short term priorities and understanding the potential savings that we could achieve over this time.

We measure our location-based emissions and these form part of our baseline. Whilst we are working hard to reduce them, moving forward we will report our progress against a Market Based Assessment. This will show the impact of continuing to utilise energy supplied on a green tariff.

We currently do not measure the carbon of the sub-consultant's we collaborate with, or the embodied carbon and operational carbon of our projects, but we aim to collaborate with consultants who share our values, and we seek to work on projects where we can work with our clients to reduce the impact of our designs on the planet. More on this in our 'Project not Practice' initiative.

We want to reduce first and then offset all residual carbon that we honestly believe is our responsibility, whilst collaborating with the wider profession and our clients to help them reduce theirs. We believe that the offsetting of residual carbon should be a last resort. The aim is to reach a 90% reduction before any ethical offsetting occurs. In delivering this plan, Buttress will be Net Zero by 2034.

We've been busy...

Measuring our carbon footprint with PlanetMark.

Understanding our Scope 3 emissions using GHG protocols.

Identifying our short term goals.

Planning our long term objectives.

Setting out our carbon budget and targets.

Our PlanetMark Score

We are really proud of the focus and commitment of the practice to reduce our carbon emissions. The figures below became our immediate starting point. Every year we want to make positive improvements to our business that build on our already strong PlanetMark score.

In our 2023 PlanetMark assessment we showed a significant reduction in our emissions. This, our 3rd yearly report, showed a 33.5% absolute reduction on our market based emissions in comparison with our first year.

Scope 1,2++ as measured by PlanetMark

● 41.0tCO2e

Market based carbon footprint 2023

● 61.6tCO2e

Market based emmissions in 2022

The all important numbers

100% renewable energy supply

39.2% carbon reduction per employee

33.5% absolute carbon reduction



Planet Mark certification achieved



5 steps to Net Zero

Alongside our baseline assessment, we have the steps we need to take to get to Net Zero.



Step 1. Benchmark - 2023
We started by utilising Planet Mark in 2022. We committed to a 5% annual reduction at this time, and we are exceeded it significantly. But we need to do more! We now benchmark our own emissions using in-house tracking, validated by our Planet Mark assessment for Scope 1 and 2. We have baselined our emissions in 2023 at 93tCO₂e. Our baseline figure forms a key milestone in our process to Net Zero. The accuracy of this measurement sets the path for the next decade. The GHG protocol is being used as the methodology for measuring our direct and in-direct emissions.

Step 2. Significant Reductions – 2028
Eliminate all scope 1 emissions by 2028, gas is our only scope 1 emission and equates to approx. 15% of our total footprint. We aim to achieve a 50% reduction in our emissions on our baseline figure. Having eradicated our Scope 1 emissions, We aim to significantly reduce our Scope 2 and 3 emissions.

Step 3. Further incremental reductions - 2033
Our strategic aim is to implement incremental reductions through robust measuring and action planning until we establish our residual "stubborn carbon." Creating a 'Carbon Budget' will help in making stubborn carbon less stubborn.

Step 4. Net Zero achieved! - 2034
Only once we have achieved a 90% reduction, We aim to ethically offset our remaining 10% of Carbon to become Net Carbon Zero by 2034. 4 years ahead of Manchester City Council's target. Partnering with 'Gold Standard' Offsetting to achieve Net Zero.

Step 5. Projects not Practice - 2040
Using our Scope 4 initiative, We aim to collaborate with partners who share our values. We also aim to influence the impact of our buildings. This means that by 2040 we will take responsibility for our 'Hand-print'* as well as our footprint, with our projects targeting Net Zero throughout their lifetime.

* The 'Hand-print' concept published by Arup, estimates the Whole Life Carbon impact of their projects in comparison to the organisational carbon impact of Scopes 1, 2 and 3.

Our 5 steps to Net Zero...

Benchmark - 2023

Significant reductions - 2028

Further incremental reductions - 2033

Net zero achived! - 2034

Projects not Parctice - 2040

2023

93 tCO₂e

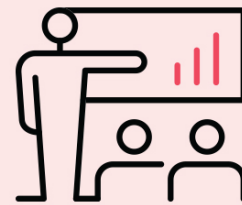


Set benchmark & baseline assessment



Publish our Net Zero Roadmap

5% through pledge implementation
4.65 tCO₂e

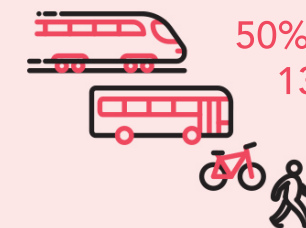


Increase carbon literacy

Voltage optimisation
1.09 tCO₂e



Reduce our energy consumption
Market Based assessment
13 tCO₂e



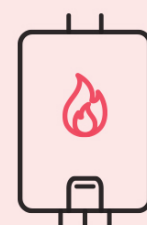
Target
50% reduction
13 tCO₂e

Carbon-centric business travel policy

30% reduction
9.42 tCO₂e



Carbon-centric commuting initiative



Eliminate all Scope 1 emissions
13 tCO₂e



Reduce our waste
0.46 tCO₂e



2028

aim for 50% reduction



Mid-point carbon audit



Further
25% reduction
6.5 tCO₂e



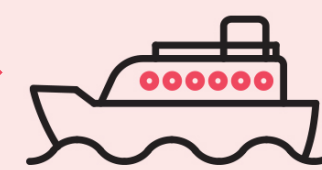
Travel Less (business)



25% commuting reduction
7.8 tCO₂e



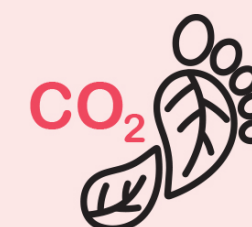
Encourage home working



Carbon Neutral studio trips
2.23 tCO₂e



Target 75% of total emissions at this point



Residual carbon audit
identify all stubborn carbon



Identify final reductions
12.57 tCO₂e (estimated)



Ethical offsetting
9.3 tCO₂e



'Projects not Practice'
Our Scope 4 Initiative



Net Zero achieved

2034

Buttress | Roadmap to Net Zero

1. Benchmark



Using our Planet Mark assessment as a starting point and utilising the Greenhouse Gas Protocol, we have measured our Scope 1, 2 and 3 emissions. The result was fascinating - and is now informing how we reduce our impact on the planet.

Baseline assessment

We have developed our own assessment tool to measure our carbon emissions. This has then been compared with our ongoing Planet Mark assessment to ensure that our calculations are correct. We are following best practice as set out by the Greenhouse Gas Protocol, to ensure our baseline assessment is both thorough and transparent.

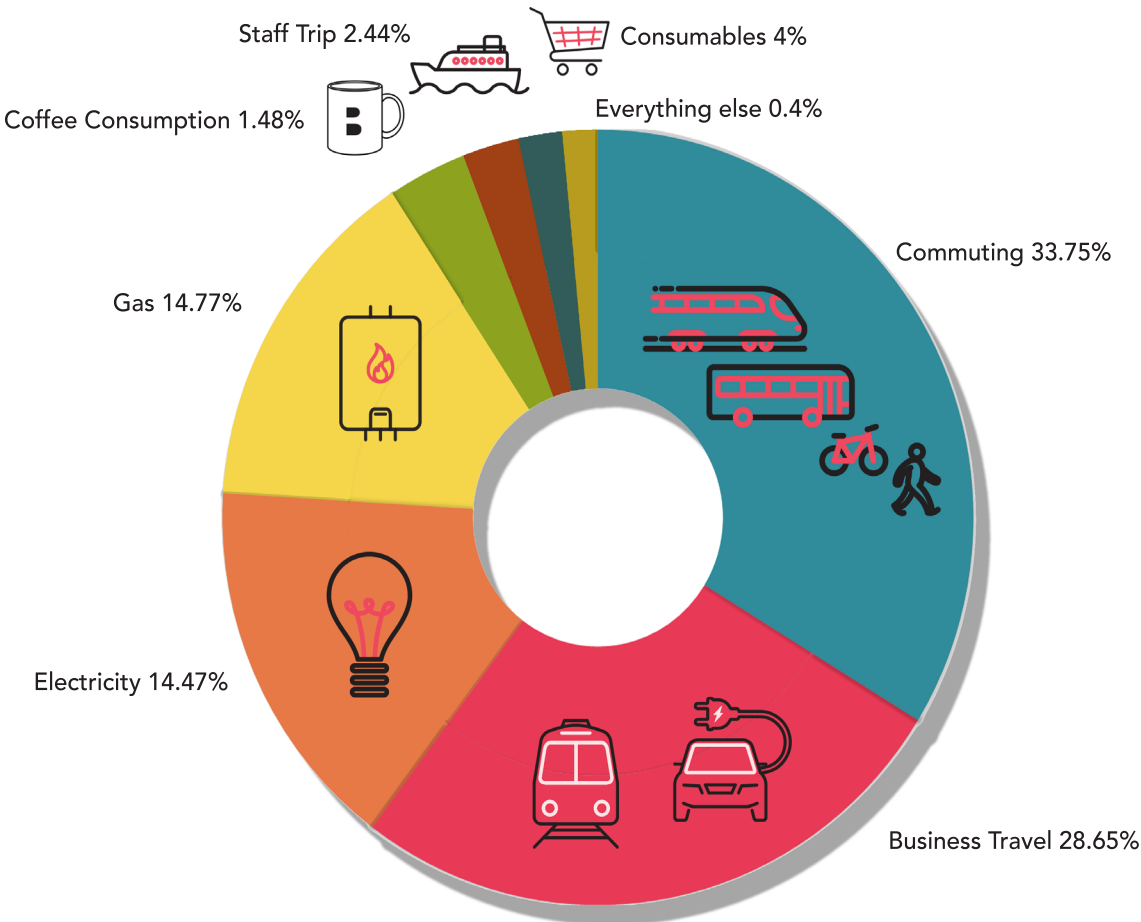
We have calculated our total annual emissions to be 93tCO₂e. Whilst we could have undertaken our baseline earlier, before we made significant reductions, we wanted to be in a position where we made the assessment ourselves, we like the idea of being in charge of our own destiny. This is taking into consideration all Scope 1, 2 and 3 emissions. Our total is divided into the following categories:

Scope 1

The only scope 1 emission is our gas boiler in the Manchester studio. This is our principle source of heat and was calculated at 14.77% of our total baseline emissions. That is 13.65tCO₂e as a location based assessment.

Scope 2

Electrical use is a significant emission and 14.47% of our baseline assessment. This is all of our electrical consumption for both lighting and power. This currently stands at 13.43tCO₂e as a location based assessment.



Scope 3

The largest emission, of our whole baseline is commuting, which consists of just over one third of the assessment. 33.75%, or 31.18tCO₂e is made up of the personal travel to and from the studio. We calculated this by undertaking a staff survey of our commuting habits, establishing both the frequency and the modes of transport taken. Distances from home to work were then used to calculate each persons carbon impact of their commute. The results were surprising for some, and have been used to help staff make better choices.

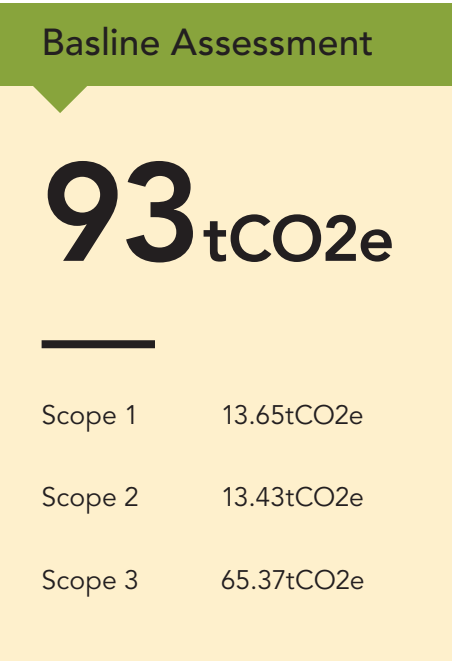
Business travel is our next largest Scope 3 emission at 28.65%. This is a mix of taxi, car and train travel, which reflects the broad geographical location of many of our projects.

Another form of travel which has a measurable impact is our staff trip. We usually go into Europe for a long weekend each year, and this longer distance travel has a big impact. We have already stopped air travel for our staff trips, but travelling by ferry, coach and long distance trains has a total impact of 2.44% of our annual emissions.

Perhaps the most surprising statistic was the amount of carbon emitted by our coffee consumption. 1.48% of our overall emissions. This was significantly lower than our original assessment, as our local coffee supplier has a lower carbon intensity than typical coffee suppliers. This may prove one of the more difficult elements to reduce.

The purchase of consumables contributes to 4% of our baseline emissions, with 'everything else' taking up the final 0.4% - this includes our waste and our water consumption.

We will now use this baseline to track our progress, annually, and thoroughly reassess our emissions at three key points our mid point assessment in 2028, our residual carbon audit when we have achieved a 75% reduction, and once we have our stubborn carbon remaining in 2033, when we will ethically offset all remaining emissions to achieve Net Zero status by 2034.



2. Reduce - 2028

We aim to achieve a 50% reduction in our emissions on our baseline figure. Having eradicated our Scope 1 emissions, We aim to significantly reduce our Scope 2 and 3 emissions.

We will continue to reduce our carbon emissions by at least 50% by 2028 without the need for offsetting. We are looking to make the larger reductions earlier, to make a bigger impact. This will be done by doing the following:

- 1. Increasing Carbon Literacy first. We estimate that this will create a 5% reduction in our overall emissions by staff pledges. This equates to 4.65tCO2e.
- 2. Reducing our electric usage. Fitting a voltage optimisation unit to the Manchester Studio to reduce emissions by 1.09tCO2e. We will also ensure we are running on 100% renewables. We will calculate our emissions using a market-based assessment to ensure our decision to use a green energy tariff is taken into consideration saving 13tCO2e.

The strategy



Increasing carbon literacy at the start of our journey will help us achieve reductions through the staff pledges.



Reducing our electricity consumption.



Carbon-centric business travel policy.



Reducing our waste because it's the right thing to do!



Switching from gas heating to electricity on a green tariff.

Our carbon-centric commuting initiative will tackle our largest impact.



- 3. We will develop a Carbon-centric Business Travel Policy. This will ensure we always choose the most carbon-efficient way to travel for work. We aim to half our business travel emissions by 13tCO2e. This will include EV car hire, sustainable rail travel and even investigate a Buttress Studio-branded Brompton.

- 4. We are also keen to reduce our waste, even though this will only save 0.46tCO2e. We will utilise our Dyson hand dryers in preference to paper towels – hand dryers create less than 17% of the carbon that is created by paper towels, and reduce our waste too.

- 5. Eradicating all scope 1 emissions. Replacing our gas heating with Air Source Heat Pumps which will utilise 100% renewable energy on a green tariff. Currently, our gas heating is 14.77% of our carbon emissions at 13.7tCO2e.

- 6. Launching our Carbon-centric Commuting Initiative will provide an estimated 30% reduction on the largest single element of our carbon footprint. In 2023, commuting was 33tCO2e which is 33.75% of our total emissions. As well as encouraging our staff to travel lightly, we are confident that a decarbonised public transport system will help provide these efficiencies.

We will enhance our active transport facilities, increasing capacity in our bike storage and updating showers and drying facilities. A 30% reduction is 9.42tCO2e.



Significant reductions

2028

Carbon literacy	4.65t
Voltage optimisation	1.09t
Carbon-centric business travel	13t
Electric heating	13t
Commuting reductions	9.42t

3. Incremental reductions - 2033

Our strategic aim is to implement incremental reductions through robust measuring and action planning until we establish our residual ‘stubborn carbon.’ Significantly reducing our Scope 2 and 3 emissions.

The strategy



Travel Less for Business Policy to reduce our business travel emmissions.



Encouraging home working.



carbon neutral staff trips through ethical offsetting.

The residual carbon audit will identify final reductions.



As we aim to reduce our impact further, our strategy needs to switch to smaller incremental reductions. Working towards our residual carbon audit and aiming for a 75% reduction on our baseline assessment, we will have to work harder to reach our target. The strategy for this second phase of carbon reduction is also reliant on the growing infrastructural improvements in transport and supply chains. We also commit to driving efficiencies in the way we work and collaborate with others. This will be done by:

- 7. Developing our Travel Less for Business Policy. This is to reduce our business travel emissions by a further 25% or 6.5tCO₂e.
- 8. By encouraging home working, whilst making the studio the place to collaborate, we will look to reduce staff commuting by 25%. This will save a further 7.8tCO₂e. We will consider closing the studio one day a week to ensure further operational savings are made.
- 9. Ensuring our studio trips are carbon neutral will save 2.23tCO₂e, but we recognise that this is likely to include an element of ethical offsetting.

The Residual Carbon Audit will then seek to identify how well we are doing and all the carbon emissions which remain. This will allow us to plan for how we make our final reductions which are estimated to be 12.57tCO₂e or 15% of our baseline assessment. The aim is to get down to our last 10% of emmissions, which we will then offset.

Incremental reductions

2033

Trevel less policy	6.5t
Home working	7.8t
Carbon-neutral staff trips	2.2t
Further reductions	12.6t

Route to Net Zero: Benchmark | Reduce | Incremental reductions | Offset | Projects not Practice

4. Ethical Offsetting - 2034

Only once we have achieved a 90% reduction, will we aim to ethically offset our remaining 10% of carbon to become Net Zero by 2034. This will be done by partnering with 'Gold Standard' offsetting.

Once we are down to our final 10% - our stubborn carbon, we will look to ethically offset all the emissions which cannot be reduced further. We will identify the best way to do this at the time, recognising that currently, the offsetting market is not mature enough for us to decide how best to do this. Our offsetting target of 10% of our baseline is 9.3tCO₂e.

Achieving Net Zero by 2034 4 years ahead of Manchester City Council's target. Partnering with 'Gold Standard' Offsets to achieve Net Zero.



5. Projects not practice - 2040



We aim to collaborate with partners who share our values. We also aim to influence the impact of our buildings. This means that by 2040 we will take responsibility for our ‘Handprint’* as well as our footprint – our Scope 4 emissions.

* The ‘Handprint’ concept published by Arup, estimates the Whole Life Carbon impact of their projects in comparison to the organisational carbon impact of Scopes 1, 2 and 3.

We recognise that the impact of our projects is far larger than the impact of our practice. A recent study by Arup estimated that their projects had an impact 350 times larger than their organisational carbon when calculating a building’s whole life carbon. As such, we recognise that we need to do more than simply reduce the operational carbon emissions of our practice. We want to take responsibility for our Scope 4 emissions.

The Buttress ‘Projects not Practice’ pledge is our way to effect change through our sustainable design.

This is where our work as Architects and design team leads can have a much bigger impact. We aim to collaborate with consultants who share our values, and we seek to work on

projects where we can work with our clients to reduce the impact of our designs on the planet. We will take responsibility for delivering the architectural design, from RIBA stages 0 to 4, reducing the carbon impact. We will work with contractors who will deliver built projects through RIBA stages 5 and 6 ensuring that the carbon impact of our designs is minimised and seek out clients who aspire to operate our designs in use whilst minimising their impact on the planet. This holistic view and consideration of a circular economy leads us to make the following design pledge.

We pledge to have a positive impact on our designs to enable the following:

- By 2026, all our projects will undertake early carbon optimisation assessments and be benchmarked against RIBA and LETI best practice target emissions.

- By 2030, all our projects will undertake whole-life carbon assessments and designs will offer ways to reduce emissions, considering the circular economy.
- By 2040, all our projects will target Net Carbon Zero throughout their lifetime, this will be made possible by working with clients who share our ambition.

Together with you, we will target the most rigorous approaches to minimise the carbon footprints of projects. We are currently designing to the ‘gold standard’ Passivhaus principals on numerous projects in the studio, and have our first multiple occupancy Passivhaus building on site and due to complete Spring 2024. All the understanding we gain from each project is shared across the studio and with our peers to improve our shared approach to design for the future.

Designing for the future

We are in a unique position to advocate for reduced carbon and the circular economy, sustainable sourcing, and improved biodiversity on the projects we design. During the year we have formed and trained a sustainable core team and refreshed our sustainable review process.

We are conscious of the ‘otherness’ that sustainable design approaches can promote. We think that a sustainable approach to architecture in its widest sense is fundamental to every project we do. We also think it needs to be part of our everyday and not ‘something else’ to have the biggest effect. This means we will speak to you about the impacts your project will have simply, and as standard. Every small change we make helps create a better bigger picture and improves our shared environment.

To create clarity on the impacts of our design decisions we have introduced a number of specific sustainability services, including an embodied and whole life carbon assessment, Passivhaus designer and post-occupancy evaluations. This helps us to understand and better communicate how each and every design decision can have a cumulative effect on, and help minimise, the carbon footprint of our projects.

Scope 4 2040

Carbon optimisation assessments	2026
whole-life carbon assessments	2030
Project lifetime Net Carbon Zero	2040

Buttress carbon budget



In order to support our roadmap, we need to set a financial budget for our capital expenditure. This also recognises uplift costs for goods and services which may be at a premium to realise the saving in carbon emissions. Throughout this budget we show the estimated carbon saving that is anticipated next to the financial budget that is proposed. All costs are at current costs and do not make allowances for inflation.

Setting benchmark and mid-point assessments PlanetMark assessments.	£10,000/year
Increase Carbon Literacy training for all senior staff will save 5% of total emissions through staff pledges.	£3,000
Reduce our energy consumption Voltage optimisation would save 1.09tCO2e per year.	£6,000
Eliminate our scope 1 emissions Electric heating system would save 13tCO2e.	£50,000
Carbon-centric commuting Upgrades to our active travel facilities. Saving 30% of our current emissions 9.42tCO2e.	£20,000
Travel less for business policy This would save 25% of our business travel, or 6.5tCO2e.	£5,000/year
Carbon-neutral staff trips Based on £85/tCO2e offset. This would reduce our assessment by 2.23tCO2e.	£200/year
Final Reductions (to be established) These equate to 14% of our baseline assessment or 12.57tCO2e.	£18,000
Ethical Offsetting 10% of our baseline assessment @ £85/tCO2e.	£750/year
TOTAL NET ZERO BUDGET over 10 years.	£155,000





Sustainable transport in the community.

The proposals for the Mobility Hub seek to future-proof Ancoats by embedding green transport choices, smart logistics, and shared services into the heart of an emerging and sustainable neighbourhood.

Location

Ancoats, Manchester

Developer

Manchester Life Development Company

Designed for Manchester Life Development Company, Ancoats Mobility Hub is an innovative project which proposes to reduce the parking requirements of residential and commercial development in Ancoats, removing parking from individual schemes to promote a shift away from car ownership in response to the community's desire to prioritise people over vehicles in the local area.

The plans will accelerate the move away from petrol and diesel vehicles, improve air quality and protect the environment. By bringing together parking in one place the Hub will also ensure future developments are car-park free, urban designers can then focus on creating places for people to relax and enjoy.

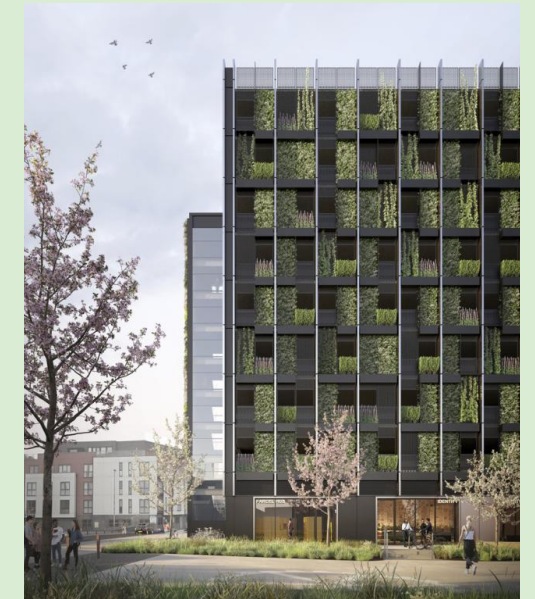
To limit the number of delivery vehicles to the area, a delivery depot will also be housed within the site to receive local deliveries and parcels, and to reduce the travel of delivery vehicles through the neighbourhood by 1200km a day.

At ground floor level, there is potential for a large community café that will activate the street frontage and knit the development into the neighbourhood. This café will face onto a significant area of new public realm, which will be developed with pedestrian and cycle access, seating areas, plating and paving and opportunities for outdoor café dining. This area of public realm will also provide a new cycle and pedestrian route that will connect through to an adjacent park.

In keeping with the sustainable focus of the building, the new scheme will include a significant element green façade and a modular living wall. This has been designed to remove air pollutants including carbon and improve the biodiversity of the area, while reducing the amount of visible structure, screening the car park, and limiting light spill from within the car park. The growing structure will be given order through the use of dark metal, vertical fins which will add further contrast and variety to the façade design.

Silver anodised aluminium fins will wrap the majority of the main building structure, creating a stark contrast to the dark painted metal structure behind. At ground level the building is wrapped by dark aluminium panels, with contrasting light metallic panels used to emphasise the location of commercial entrances along the new pedestrian/cycle street.

At roof level, the entire surface will be covered with more than 700 PV panels to minimise energy consumption and the percentage of power being generated by renewable energy will be visible to passers-by through digital displays installed on the façade.



Included are electric car spaces, secure cycle spaces, showers, and an electric car-sharing club, giving residents greener transport options.



Large residential Passivhaus design

Greenhaus, Salford delivers 96 affordable homes in a mix of 1 & 2 bed units. It is one of the largest residential Passivhaus developments in the UK.

Delivered by
English Cities Fund

Location
Salford

Developer
Muse

Greenhaus is a new residential development located in the Salford Central masterplan regeneration area.

When combined with green spaces, cycle storage, and easy access to public transport, these are homes fit for the future. Greenhaus is one of the largest residential Passivhaus certified developments in the UK.

We employ a certified Passivhaus designer and ensure all architectural staff have training in the fundamental principles

To achieve Passivhaus standards within a budget, we needed to create a compact build form and simplify the thermal envelope, reducing the exposed surface area for heat loss. Thermal bridges and fabric penetrations were avoided where possible. For example, air emittance valves were used so that soil and vent pipes vented at the head of the drainage run and rainwater pipes were fully insulated. The simple form meant that it was easier to meet the stringent airtightness requirements and that most of the heat demand is met by

internal heat gains from people and equipment. As a result, the heating plant is far smaller, and the cost savings can be spent on triple glazing, openable windows, and highly efficient ventilation systems.

One of our objectives has been to simplify the architectural detailing to pre-empt potential site interface issues. This required several innovative processes that break ground for residential Passivhaus construction. For example, the scheme utilises SFS (steel framing system) in its structural external envelope. SFS has a far quicker installation programme than the concrete block used on previously certified apartment schemes in the UK. It also imposes less weight on the primary structure.

On site we worked closely with the contractor teams to ensure installation quality and test airtightness using a prototype mock up, highlighting areas that needed addressing.

Our journey does not end here. As the global climate continues to change, Passivhaus design will play a crucial role in designing buildings that will support living sustainably. As a practice, we will continue to trailblaze these principles in our conversations, briefings and designs. We are already working on a second Passivhaus project with the English Cities Fund and Salix Homes. With 100 homes, being 100% affordable, and 100% certified, and we will continue to share the important lessons learned with our industry.



Buttress Associate & Certified Passivhaus Consultant. Alison Haigh.

“Passivhaus is a tried and tested design principle based on sound building physics, its aim is to achieve a healthy, comfortable and stable environment for building occupants. The concept focuses on reducing energy usage, rather than meeting demand by using renewables.

Our Passivhaus planning package is used to assess the energy efficiency of a building through the conventions of the Passivhaus principles. Adopting a whole-building approach with clear, measured targets gives confidence in the building’s performance from an early stage. Passivhaus is focused on high-quality construction. The design and build process is closely monitored, ensuring heat loss through the building fabric is reduced and space heating demand is reduced throughout the year. The quality assurance system is backed by a rigorous certification process that guarantees the building will perform efficiently and as promised at the design stage.”

Roadmap to Net Zero We've picked out a few key aims and ambitions as our building blocks to achive Net Zero by 2034. We will...		01	LITERACY	carbon literacy training on how to communicate environmental goals to all of our management team.
		02	POWER	usage reduction and ensuring we utilise a suitable green tarrif.
		03	TRAVEL	policy that is carbon-centric, aiming to reduce our impact by 13tCO2e.
		04	REDUCE	the impact of our waste by making reductions and recycling our waste.
		05	SCOPE 1	emissions are eradicated by switching our gas heating for an electric system.
		06	WORK	smarter, by developing a carbon-centric commuting initiative.
		07	LESS	travel for work is key. Our travel less (business) policy will aim to reduce our business travel imapct by 25%.
		08	HOME	working will be encouraged to effect further reductions of 7.8tCO2e.
		09	TRIPS	abroad with work are part of our DNA. offsetting this through ethical offsetting is our way of aknowleging our impact and taking responsibility.

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Corporation

