

Supplier name: **IBI Group (UK) Limited (“Arcadis IBI Group”)**

Publication date: **25 January 2023**

Commitment to achieving Net Zero

Arcadis IBI Group is committed to achieving Net Zero emissions by **2035**.

Our Carbon Reduction Plan

Our Carbon Reduction Plan (the “Plan”) demonstrates to the UK Government and more importantly to our clients, IBI Group’s commitment to managing carbon across our organisation and supply chain. Our Plan summarises our baseline carbon emissions for 2019, and those for the current period (**2021**). It includes all the required emissions in accordance with the PPN 06/21 and the associated guidance and reporting standard for Carbon Reduction Plans.

The scope of our Plan is based on the GHG Protocol Corporate Standard. We have established our Operational Boundaries which have then determined the Scope 1, Scope 2, and Scope 3 categories that we have influence over, and which guide our activities. Emissions were calculated following the **financial control** approach, which signifies that we have accounted for 100 percent of the GHG emissions from operations over which **Arcadis IBI Group** has financial control.

Who We Are

IBI Group (UK) Limited is a subsidiary of IBI Group Inc. - a global team of industry leading architects, engineers, planners, designers, and technology professionals united by a common desire: to create liveable, sustainable, technologically advanced urban environments. We are a technology-driven design firm. IBI Group (UK) Limited operates across 7 offices in the UK and includes over 200 professionals.

Baseline Year Emissions Reporting

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

BASELINE YEAR: 2019 (January-December)	
Additional Details relating to the Baseline Year Emissions calculations:	
<p>We have collected environmental data for GHG emissions since 2019. We have used 2019 as our baseline year, and there was no previous reporting. <i>Some emissions from the previously reported 2019 Scope 1 have been reclassified as Scope 3, as the fuel-related activity was found to be business travel rather than mobile combustion. The overall emissions figure is unchanged.</i></p>	
Baseline Year Emissions:	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	32.19
Scope 2	173.16
Scope 3	359.02
Category 4	0.62
Category 5	7.07
Category 6	171.17
Category 7	180.16
Category 9	0.00
(Category 9 emissions reported in Category 4 as GHG Protocol technical guidance)	
Total Emissions	564.37

Current Emissions Reporting

Given the large-scale and continued disruptions faced globally due to the COVID-19 pandemic during 2020 and 2021, we have continued to see large reductions relative to our baseline year. We recognise however that the pandemic has resulted in long-term changes to the way we operate, and we must capture these as our business continues to evolve in a post-pandemic operating environment.

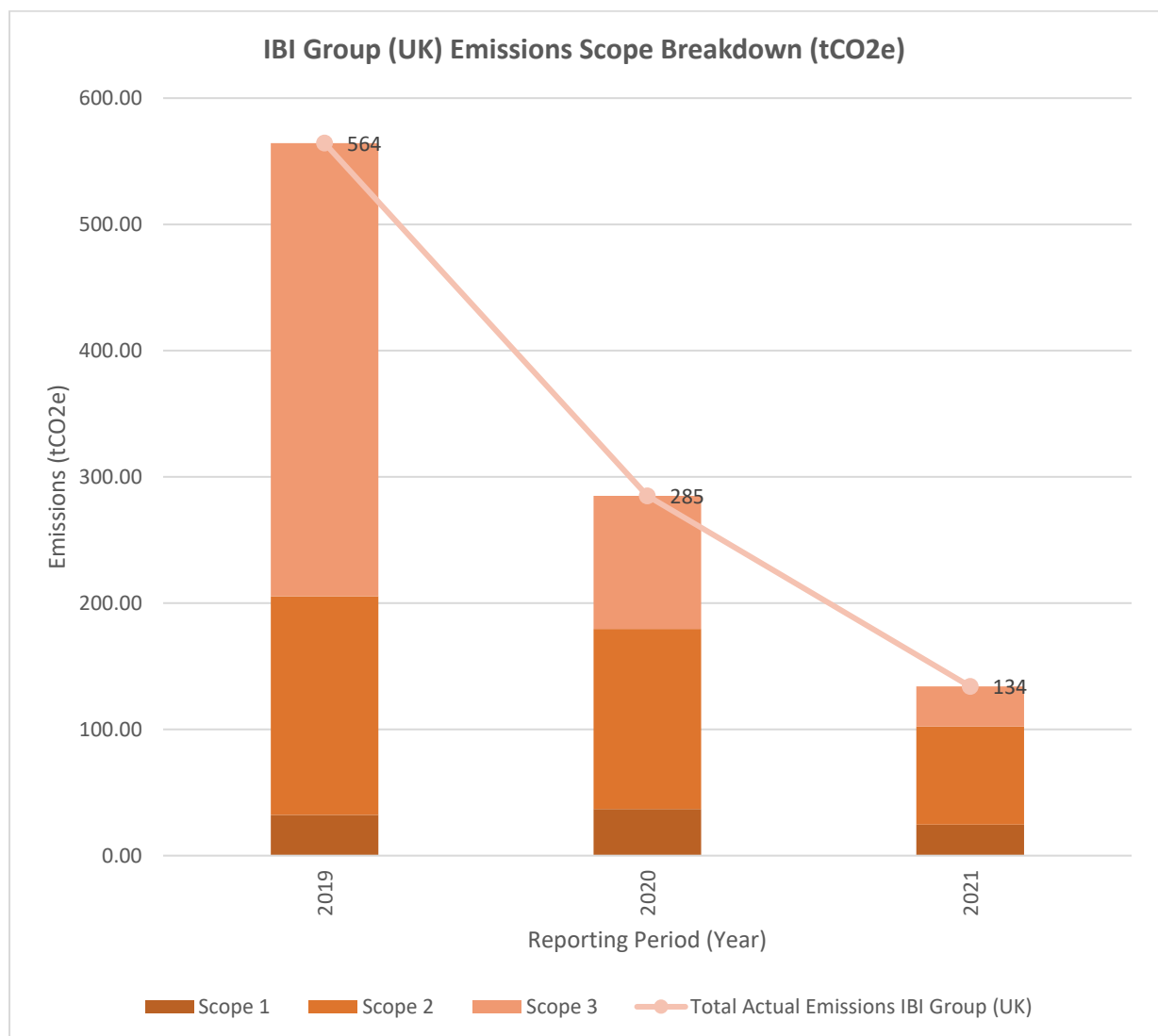
REPORTING YEAR: 2021 (January-December)	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	24.57
Scope 2	77.74
Scope 3	31.69
Category 4	0.73
Category 5	2.84
Category 6	19.57
Category 7	8.55
Category 9	0.00
(Category 9 emissions reported in Category 4 as GHG Protocol technical guidance)	
Total Emissions	134.00

Emissions Reduction Targets

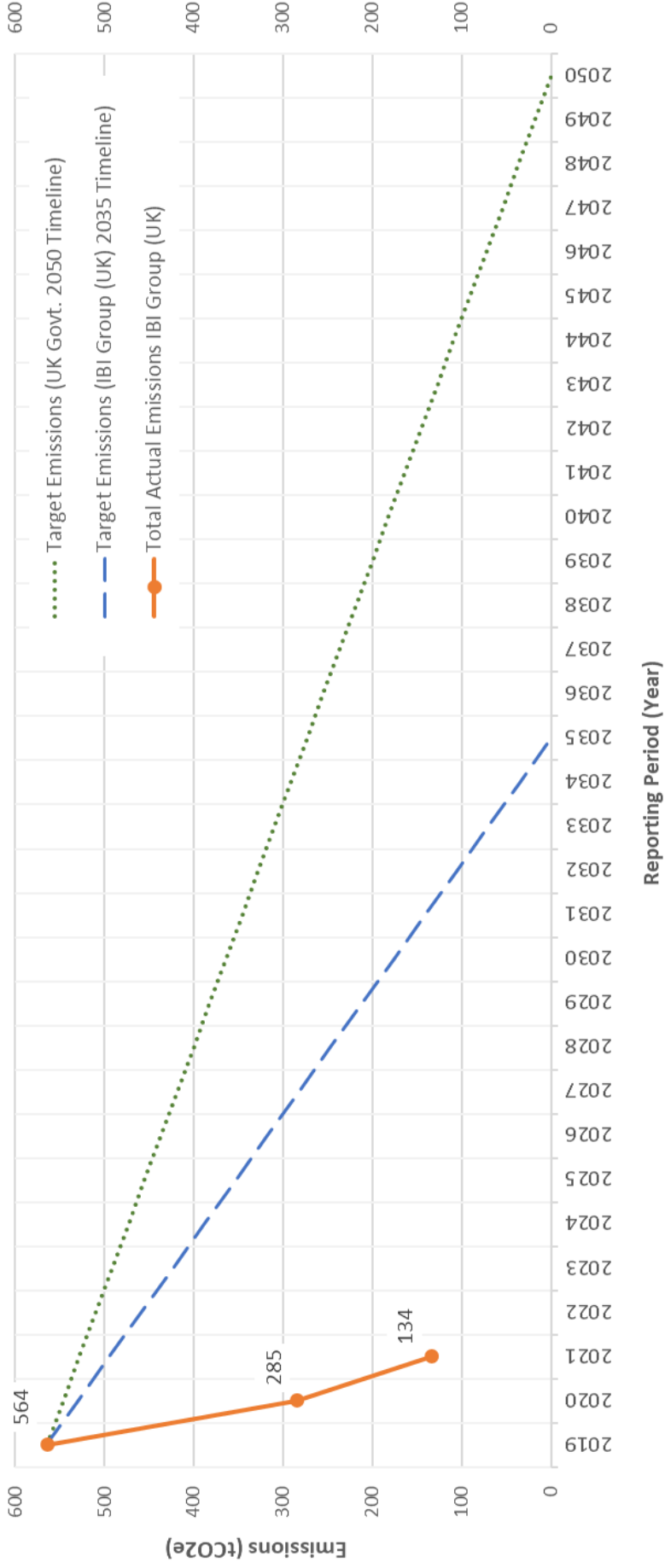
In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets:

- **IBI Group (UK) Limited** is committed to achieving Net Zero emissions by **2035** (a ten-year betterment on our commitment in the 2020 Plan).
- We will undertake 5-year staged reviews of intermediate targets – to focus our efforts and ensure immediate actions are taken (next due in 2025).
- We project that our carbon emissions will decrease to less than **280 tCO₂e** by 2025 **at a minimum**. This is a reduction of **50%** relative to baseline. We will continue to embed as many of the reductions which occurred in 2019-2021 as possible in order to make substantially better progress than noted above.

Progress, measured against these targets, can be seen in the following graphs:



IBI Group (UK) Emissions and Targets Graph (tCO2e)



Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the **2019** baseline. The carbon emission reduction achieved by these schemes equate to **169** tCO₂e, a **30%** reduction against the **2019** baseline.

These have been listed under the Scope in which they fall in order to highlight where they sit in our overall GHG footprint and allow clarity for tracking future reductions.

Scope 2 Energy Indirect Emissions

- ***Purchase of renewable electricity for all UK offices***

As our energy contracts came up for renewal, we have amended them so that most of the electricity we consume in our UK offices comes from renewable sources. With this measure now in place, we have reduced the emissions in these offices by approximately **84%**, which equates to approximately **67** tCO₂e saved in this reporting year. We will continue this transition in order to align the remaining offices onto equivalent tariffs.

Scope 3 Other Indirect Emissions

Category 5 Waste generated in company operations

- ***'Wipe-Out-Waste'***

A cross-studio effort to reduce the use of plastics, single-use items, etc., including the donation of samples / stationery to be recycled for school craft projects. Emissions savings in relation to this are to be recorded / estimated and reported, following the 2025 review.

Scope 3 Other Indirect Emissions

Category 6 Business travel

- ***Online meetings & collaboration***

Arcadis IBI Group has developed "The Hive", a proprietary Digital Engagement Venue ("DEV") which serves as an immersive online tool to mirror the advantages of in-person engagements at added convenience, flexibility, and lower costs of participation to stakeholders. We have migrated several meetings that were formerly in-person, to now be hosted on "The Hive". An example of this was our Global Climate Action Conference. Now in its second year, at this event, we shared insights with our employees across the globe regarding various topics related to climate change, including discussions on how to reduce our emissions as a firm and within our personal lives, based on sharing the knowledge from this Carbon Reduction Plan

report.

Emissions savings in relation to this are to be recorded / estimated and reported, following the 2025 review.

Scope 3 Other Indirect Emissions

Category 7 Employee commuting

- ***Migrated to a hybrid working model***

We migrated to remote working in early 2020 as a continuation of our business strategy (accelerated as a result of the COVID-19 pandemic).

We estimate this model has reduced commuting emissions by **102** tCO₂e over the reporting year. The remaining **70** tCO₂e reduction can be attributed to the pandemic and the various restrictions placed on travel throughout this period.

Additional items not covered elsewhere:

In addition to the above, we have completed the following measures since our 2019 baseline. At this time, we are unable to accurately identify the direct related savings associated with the following, however estimating these savings is part of our emissions calculations that are to be recorded / estimated and reported, following the 2025 review.

- ***IBI Tree Grove***

We have invested in a wider woodland project planting trees in Scotland, planting trees to off-set our carbon emissions, which commenced in January 2020.

292 trees have been planted in 2021 (<https://treesforlife.org.uk/groves/137856/>).

- ***'Climate Moments'***

Launched at our annual Sustainability Conference these 'moments' at the beginnings of meeting which we host encourage staff, consultants, and clients to share ways to fight climate change.

- ***ISO 14001***

Successfully completed our ISO 14001 re-certification audit.

- ***Published a Sustainability Action Plan*** (as part of our AIA 2030 Commitment).

This includes planning several office audits to better understand our emissions sources and areas of opportunity, as well as identifying strategies to reduce the carbon emissions of our project work.

Future Carbon Reduction Initiatives

In the future we will implement further measures to meet or exceed our targets, but in order to do so, we require ever improving visibility of our activities. To ensure we can focus on the most effective reductions, we intend to complete audits at all our global offices to gather more granular / additional data on our environmental footprint, to then use it to design and implement key improvements and policies.

The measures we are considering include, but are not limited to:

Scope 1 Direct GHG emissions

- ***Electrification of fleet vehicles***
This is planned for phased implementation over 2025-2030.
- ***Electrification of company car(s)***
This is planned for implementation in 2022.
- ***Develop (semi-)automated reporting of Scope 1*** carbon emissions to capture emissions more efficiently and accurately.

Scope 2 Energy Indirect Emissions

- ***Ongoing review of renewable electricity tariffs*** for all our UK offices
As our energy contracts come up for renewal (including where we have already reduced these ongoing emissions by **84%**), we will continue to review and change tariffs so that we transition to zero-carbon sources. This should remove the remaining **77** tCO₂e per annum over the course of **10** years.
- ***Reduce energy use***
We will conduct audits to better understand the energy consumption profile from our offices, set energy intensity benchmarks for our offices, then identify strategies to reduce them, such as implementing motion sensors in meeting rooms and demand response programs. Develop a proposal for the 2025 review.
- ***Develop (semi-)automated reporting of Scope 2*** carbon emissions to capture emissions more efficiently and accurately for the 2025 review.

Scope 3 Other Indirect Emissions

Category 4 Upstream transport and distribution

- ***Develop a methodology for the collection of data for delivery mileage (from Tier 1 suppliers' Scope 1 & 2 upstream transport and distribution data)***

Evidence based decision making to further improve the sustainability of our supply chain, for the 2025 review.

Scope 3 Other Indirect Emissions

Category 5 Waste generated in company operations

- ***Paper consumption***

We will quantify our paper consumption and develop strategies to reduce it, such as making double-sided printing the default, and identifying strategies to reduce paper waste from common printing errors.

- ***Firmwide inventory of equipment and supplies***

We will gather data on our current stock of equipment and supplies, to identify strategies to minimise waste associated with replacement.

- ***Office waste***

We will gather detailed waste disposal data to identify strategies for reducing our waste generation, including awareness campaigns to reduce single use items and the provision of (branded) high-quality, reusable products such as grocery tote bags, thermos, water bottles, etc.

- ***Water use***

We will gather data on the water consumed within the office space we control and identify strategies for reduction, such as recyclable flyers in front of every kitchen sink showing strategies for how to reduce water waste, and staff training for leak identification.

- ***Repository of vendor / supplier material libraries***

As an architecture firm, some of our offices have developed extensive material sample libraries. We will inventory these libraries so we can develop strategies to reduce the waste associated with maintaining them, such as returning or recycling obsolete samples. We will also leverage virtual reality and augmented reality to streamline the sourcing and selection of materials with vendors, suppliers, and clients to reduce our overall carbon footprint. We will also use this opportunity to review our material selection for our projects, by informing vendors & suppliers that we prefer low-carbon products over other alternatives.

Scope 3 Other Indirect Emissions

Category 6 Business travel

- ***Reduce the percentage of emissions calculated using extrapolated data***

We will ensure we capture more travel data from individuals and travel suppliers.

- ***Improve the quality of recorded work-related travel data***

We will also improve our recording of all business travel to understand employee travel.

- ***Implement a sustainable business travel policy***

Use the results of improved and additional recording to show impacts of travel choices and encourage alternative ways of transportation by means such as offering incentives for carpooling, EVs, & public transport. We will also consider minimum vehicle standards.

- ***EV hire-car policy***

Policy review to be complete by 2025 review.

- ***EV mileage policy***

Policy review to be complete by 2025 review.

Scope 3 Other indirect emissions

Category 7 Employee commuting

- ***Hybrid working model***

Since the beginning of the COVID-19 pandemic (and before), we have been designing and adopting a hybrid working model for our return to office planning in a post-pandemic world. We estimate this model will capture the benefits of reduced commuting emissions seen during the pandemic era, and extend these over the long-term.

- ***Commuter travel***

We will continue to maintain our commuter travel survey to understand employee commuting habits, and use the results to encourage alternative ways of transportation by means such as offering incentives for carpooling, EVs, & public transit, and making active commuting easier by offering access to facilities such as showers, lockers, indoor bike parking.

- ***Implement a Travel Plan*** to provide information on sustainable travel to and from our offices, and ensure green travel schemes (such as 'Cycle-to-Work') are easy to access and promoted internally.

Scope 3 Other Indirect Emissions

Category 9 Downstream transport and distribution (of goods) / Deliveries

- *Not applicable to our business other than items already reportable in Scope 3 Category 4 - Upstream transport and distribution.*

Additional items not covered elsewhere:

In addition to the above, we are in the process of developing a number of measures since our 2019 baseline. At this time, we are unable to accurately identify the direct related savings associated with the following, however estimating these savings is part of our emissions calculations that we are currently undertaking for 2021 – 2025, and we are looking forward to reporting these savings in subsequent plans.

- Arcadis IBI Group is a proud signatory of the ***UK Architects Declare, AIA 2030 Commitment*** and the ***Canadian / Turtle Island Architectural Professionals Declare Planetary Health Emergency***. As part of these commitments, we have developed a global internal process to gather and analyse sustainability data of our eligible architecture projects (including metrics such as energy consumption, embodied carbon, and on-site renewable generation) in order to complete our reporting requirements, develop strategies to improve the sustainable performance of our projects, and track our progress towards the targets established in these commitments.

We are pursuing similar measures as set out in the ***RIBA2030 Challenge***.

- ***Dynamic Embodied Carbon Model***

Leveraging the strength of IBI Quantum our computational parametric design service, we developed an embodied carbon model to allow us to estimate the embodied emissions associated with place-making projects. We are currently exploring options to expand this tool to allow us to do different carbon modelling to reduce the emissions of our operations and products we design.

- ***Organise a Year 3 Climate Action Conference***

Building on the success of our Global Climate Action Conference referenced above, we will launch and run a third global climate action conference in 2023, including sharing the knowledge from this Carbon Reduction Plan report and the progress made to date.

- ***Electric Vehicle Charging Pilot***

Arcadis IBI Group, with partners SWTCH Energy Inc. (“SWTCH”), and Slate Asset Management (“Slate”), launched the first-of-its-kind blockchain-based vehicle-to-building charging technology pilot in Canada, enabled in Canada pilot at our Global Headquarters in Toronto, Canada. The three-year pilot demonstrates how commercial building owners can accommodate the growing demand for EV charging stations while simultaneously improving the building’s energy efficiency and reducing operational costs. Leveraging SWTCH’s bidirectional, vehicle-to-grid (V2G) charging technology, SWTCH operators will study the V2G charger’s ability to store

energy through a parked Nissan Leaf during off-peak hours, and redistribute that energy to the building and the Level 2 EV chargers during on-peak hours. We are excited to see the results of this pilot and explore options to implement it for our clients and ourselves globally.

- ***Continue to build our global ESG profile***

We will continue growing our global Environmental, Social and Governance online profile, to create a live, interactive portal to serve as a public centralised repository of our ESG data and initiatives.

- ***Independent gap analysis***

We will consider third-party gap analysis of our carbon accounting and control measures.

- ***Update our 'Sustainability, Environmental and Climate Action Policy'***

We will update policies to reflect the ongoing work in regard to carbon reduction.

- ***IBI Tree Grove***

Planting of trees to off-set our carbon emissions will continue at the same or greater rate.

188 trees were planted in 2020.

292 trees have been planted in 2021.

Woodland projects have a period of net greenhouse gas emission for the early years of the project due to soil type, previous land-use and land cover, the tree species planted, and the level of intervention required for successful establishment and ongoing management. However, over 25 years, our share of the woodland project would be expected to result in net greenhouse gas removals of 6.25 tCO₂e per tree, which equates to **1,825 tCO₂e**.

- ***Other initiatives***

We will continue to look for additional measures which can be implemented that will reduce our carbon emissions further and faster.

Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements, and the required subset of Scope 3 emissions have been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard³.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of the Supplier:

Mark Bendix

Director, Operations (Arcadis IBI Group)



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Date: 25 January 2023

David Kamnitzer

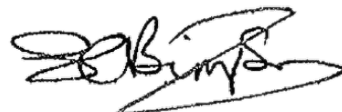
Director, Climate Action (Arcadis IBI Group)



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Date: 25 January 2023

Simon Bimpson

Country Director, UK & Ireland (Arcadis)



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Date: 25 January 2023

¹ <https://ghgprotocol.org/corporate-standard>

² <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

³ <https://ghgprotocol.org/standards/scope-3-standard>