

# Carbon Reduction Plan

Supplier name: Integral Engineering Design

Publication date: November 2021

## Commitment to achieving Net Zero

*Integral Engineering Design is committed to achieving Net Zero emissions by 2050.*

## Baseline Emissions Footprint

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.

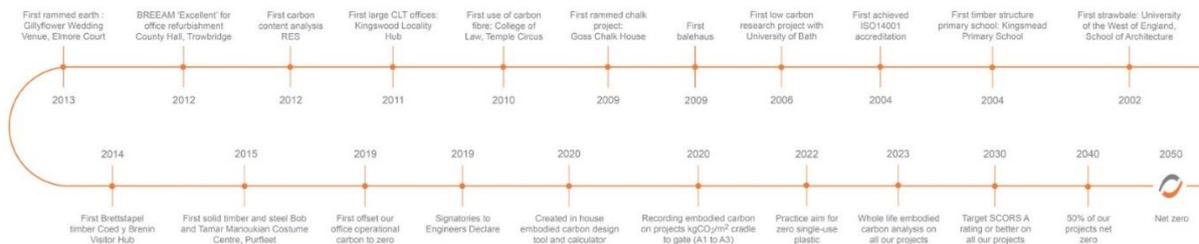
<b>Baseline Year: 2016</b>	
<b>Additional Details relating to the Baseline Emissions calculations.</b>	
<p>Integral have been reporting our carbon emission data via carbonfootprint.org.uk since 2014. In 2016 the Integral team moved into large office premises which increased our emissions total and therefore we have used this as our baseline as it is a direct comparison to current data.</p> <p>The baseline data is based on a total of 21 employees and shows a Carbon Intensity per employee of 1.54 tonnes. Scope 1 emissions do not apply to Integral, we do not have any company owned vehicles or own/control any fuel sources. Scope 3 includes only employee business travel.</p>	
<b>Baseline year emissions:</b>	
<b>EMISSIONS</b>	<b>TOTAL (tCO<sub>2</sub>e)</b>
Scope 1	N/A
Scope 2	13.85
Scope 3 (Included Sources)	18.4
<b>Total Emissions</b>	<b>32.25</b>

## Current Emissions Reporting

Reporting Year: 2020	
EMISSIONS	TOTAL (tCO <sub>2</sub> e)
Scope 1	N/A
Scope 2	7
Scope 3 (Included Sources)	7.36
<b>Total Emissions</b>	<b>14.36</b>

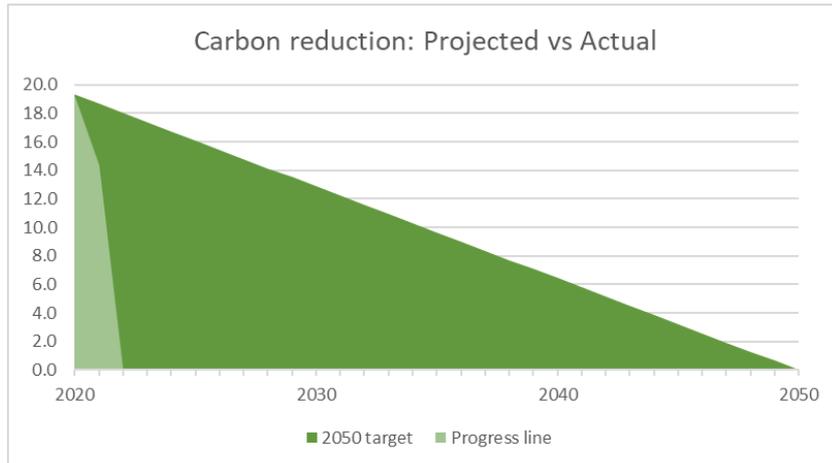
## Emissions reduction targets

As a business we are ISO14001 compliant and our commitment to emissions reduction targets are set out in our ISO14001 objectives. These objectives ensure all staff make a positive contribution, we purchase sustainable supplies, reduce waste and recycle and we commit to annual analysis. These objectives extend to our projects and are mindful of the materials we propose to use on both new build and refurbishment projects. We aim to reduce our overall operational carbon footprint by 5% year on year and the carbon footprint of our projects in line with IStructE industry targets.



In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets. This target trajectory is based on our 2019 tCO<sub>2</sub>e as the 2020 figures illustrated above have been impacted by long term office closures due to the Covid-19 pandemic.

We project that carbon emissions will decrease over the next five years to 14.9 tCO<sub>2</sub>e by 2026. This is a reduction of 22.7%.



## Carbon reduction projects

### Completed Carbon Reduction Initiatives

As a business we are ISO14001 compliant. The following environmental management measures and projects have been completed or implemented since the 2016 baseline. The carbon emission reduction achieved by these schemes, based on the 2019 data, equate to 12.95 tCO<sub>2</sub>e, a 40% reduction against the 2016 baseline and the measures will be in effect when performing the contract.

We were early signatories of the Engineers Declare movement, which relates to our commitment, as part of the construction industry community, in responding to the climate and biodiversity emergency and have pledged to deliver on the principles it promotes.

Our travel policy encourages greener ways of travelling to and from work for staff and we operate a cycle to work scheme. Our preferred means of transport for business trips is by train where appropriate instead of using personal cars.

We offset any carbon produced by our office activities into reforestation programmes. Through carbon offsetting, Integral like many other companies have achieved office operational net zero, however our ambition is to become net zero as a business without the need for offsetting.

In the future we hope to implement further measures such as:

We will continue with all carbon reduction measures currently in place for the business. This includes recycling, purchasing sustainable supplies, using more online tools to limit business travel, upgrading to more efficient IT equipment and adopting fully electronic calculations to reduce printing, reduce general waste. We will review all measures on a six-monthly basis.

Two of the Engineers Declare concepts are: the adoption of design principles and practices which work toward net zero emissions and a collaborative approach to help raise awareness, share knowledge and advocate for change. Integral has and will endeavour to reduce carbon emissions through our design work and how we operate as a practice to target the goal of net zero emissions by 2050.

Sustainable design is at the forefront of our approach and we are enhancing our knowledge and improving our resources to facilitate lower carbon design. We will reuse existing fabric where we can, design efficiently, and use low carbon materials such as timber in place of higher carbon materials such as concrete and steel. We have upgraded and improved our methodology and developed our own carbon counting tool to calculate and monitor embodied carbon specified in our structural solutions to ensure we remain on track. We are undertaking this across our projects so our clients can understand the embodied carbon in proposed solutions and make informed decisions.

## **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 standard and uses the appropriate Government emission conversion factors for greenhouse gas company reporting.

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) Standard.

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:**



Date: 09 November 2021