

Carbon Reduction Plan

Version 6

Updated: May 2023

Beardwell Construction Ltd
Beacon House
Threshelfords Business Park
Inworth Road
Feering
Essex
CO5 9SE

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Carbon Reduction Plan

Commitment to Achieving Net Zero

Beardwell Construction Ltd is committed to achieving Net Zero carbon emissions by 2045.

To Achieve NET Zero, the UK's total Greenhouse Gas (GHG) emissions will need to be equal or less than the emissions the UK removed from the environment.

This plan has been produced in accordance with PPN 06/21 and using UK Government guidance. It sets out our commitment to achieve Net Zero carbon by 2045 ahead of the UK Government target of 2050. This plan will be reviewed and updated in line with our own business planning. We have already made investments in carbon reduction for our offices and on our projects. We are expanding our knowledge of how we can construct and provide low emission buildings. We are working with our supply chain, clients and their designers to do the same.

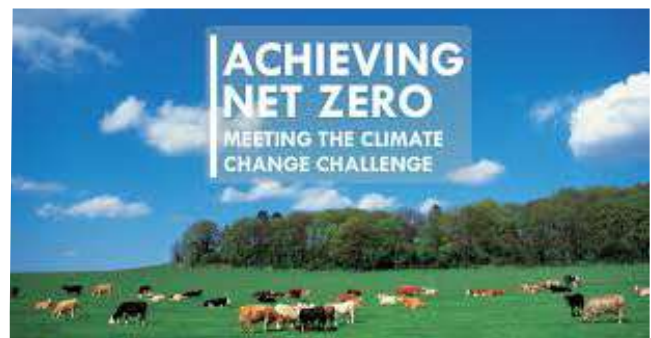
What does Net Zero mean?

'Net Zero' is commonly used as a phrase to mean a carbon impact balanced to zero. To achieve this, all man-made greenhouse gas emissions must be removed from the atmosphere through reduction measures, thus reducing the Earth's net climate balance to zero. This way humankind would be carbon neutral and global temperature would stabilise.

The phrase Net Zero Carbon does not just refer to CO₂ – but also to other relevant GHG emissions – which are often measured in carbon dioxide equivalent units (CO₂e). The use of CO₂e allows for more accessible reporting and straightforward tracking and reporting of emissions over time. CO₂e includes all seven of the greenhouse gases defined within the Kyoto protocol: carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFC), perfluorocarbons (PFC), sulphur hexafluoride (SF₆) and nitrogen trifluoride (NF₃). Each of these greenhouse gases has a conversion factor to its carbon equivalent.

Why should we take interest in this?

Of course, there is a moral reason why we should treat this subject seriously. Climate Change currently is dramatically affecting the planet and all of us, not only those with children or grandchildren, have an obligation to make changes to help future generations.



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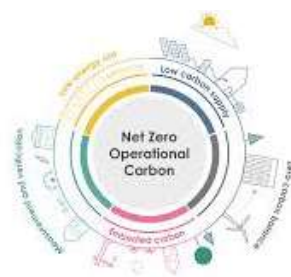
Our Influence

What influence?

Even small changes can incrementally make a difference.

We can influence the reduction of carbon emissions and have targeted looking at the following areas;

- Personal - how we manage our own lives and the impact we make
- Company – how the company operates, what we buy and what we can do in our office
- Project – how we manage our operations on site and how we design our buildings



What are we doing?

We have formulated this plan in accordance with PPN06/21 to reduce our carbon emissions.

We will do everything that we can reasonably do to reduce our carbon footprint and will continue to invest in offsetting through certified ethical means. We will expand our knowledge of Scope 3 emissions in particular. We will continue to gather and publish data relating to our business.

We will attempt to engage with all those with whom we come in contact in our daily lives. This means individuals, clients, supply chain and end-users. Any ideas will be encouraged. We will engage with our supply chain, designers and those clients with whom we work to collectively reduce our emissions and impact..



Carbon Reduction Plan

Baseline Emission Footprint

Baseline emissions are a record of the GHG that we have produced in the past and were produced prior to the introduction of specific strategies to reduce emissions. Baseline emissions are the reference point against which emission reduction can be measured.

Our baseline has been established against 2019 figures. This is a more representative year given that 2020 was affected dramatically by Covid. These are divided into recognised categories:

Baseline 2019 - Tonnes (Co2e)

Baseline Year: 2019	
The baseline figures were collated by project and office based teams.	
Baseline year emissions: 2019	
EMISSIONS	TOTAL (tCO2e)
Scope 1	71
Scope 2	5
Scope 3	318
Total Emissions	393

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Current Emission Reporting

All data gathered follows recognised standards developed by the Greenhouse Gas Protocol. The GHG Protocol provides technical guidance on calculation methodologies. These require us to ascertain our Scope 1, 2 and the relevant subset of Scope 3 emissions, then to multiply these by a conversion factor for the UK. The conversion factor represents the typical quantity of CO₂ or other greenhouse gas emitted by the consumption of a given unit of fuel, and is updated annually by BEIS and DEFRA12.

Reporting Year: 2021	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	65
Scope 2	4
Scope 3	257
Total Emissions	326

Reporting Year: 2022	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	53
Scope 2	4
Scope 3	258
Total Emissions	315

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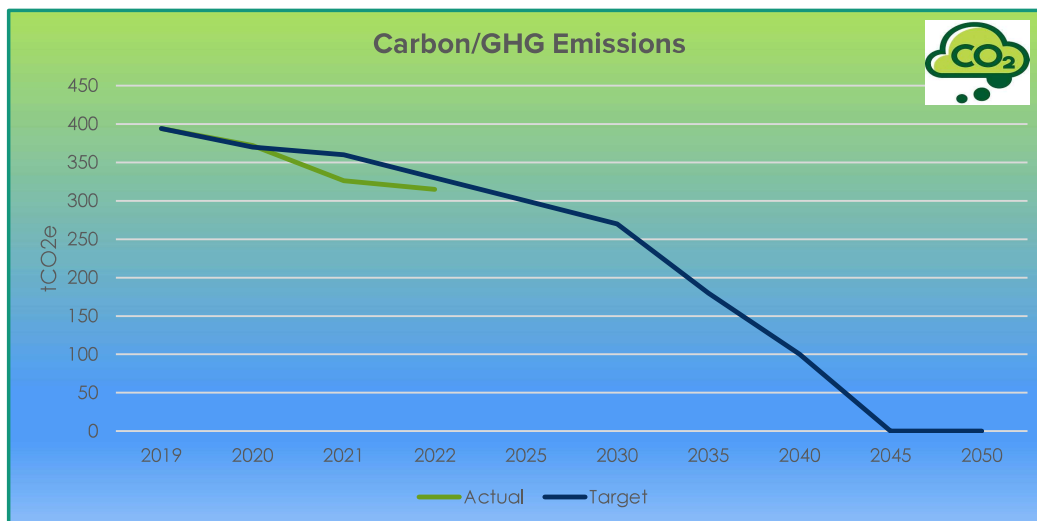
Emission Reduction Targets

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

- Reduce waste within the business
- Procure electricity from renewable sources for our offices and sites by 2030
- Reduce electricity and water use on projects and in our offices
- Set SMART Targets for all operations which produce emission
- Implement best practice and new technologies where appropriate

We project that carbon emissions will decrease over the next seven years to 270 tCO₂e by 2027. This is a reduction of 31%.

Progress against these targets can be seen in the graph below:



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Carbon Reduction Projects

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 equates to 78 tCO₂e, a 19% reduction against the 2019 baseline.

- Appointed a senior leadership team & established an action plan
- Baseline our carbon and GHG emission footprint
- Measured and benchmarked our performance each year
- Measured the operating carbon of buildings we have designed and built
- Set Carbon Reduction Targets
- Put in place specific emission reduction measures at both our offices and on projects
- Provided training for our people and our supply chain

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

- Review and establish a baseline for embodied carbon and GHG for buildings where we can influence the design
- Communicated and publicised successes achieved
- Workshops with our regular supply chain to help in emission reduction initiatives



Carbon Reduction Plan

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. It will be reviewed on an annual basis.

Signed on behalf of Beardwell Construction Ltd:

Signed: 

Name: Duncan Clark

Position: Managing Director

Date: May 2023



Duncan Clark
Managing Director
duncanclark@beardwell.com



QUALITY, INTEGRITY & PROFESSIONALISM

Beardwell Construction Ltd
Beacon House
Threshelfords Business Park
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Feering
Essex
CO5 9SE