

Commitment to achieving Net Zero

Russell WBHO have set a target of becoming net zero by 2038, reducing our GHG emissions (Scope 1 & 2) at a rate consistent with limiting global warming to 1.5°C.

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.

Baseline Year: 2021	
Additional Details relating to the Baseline Emissions calculations.	
<i>We have followed the Environmental Reporting Guidelines: Including streamlined energy and carbon reporting guidance, March 2019. We have also used the GHG Protocol Value Chain (Scope 3) Standard, but we are not as yet able to report on all categories that may be relevant. We have used 2021 UK Government’s Conversion Factors for Company Reporting.</i>	
Baseline year emissions:	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	277.1
Scope 2	261.5
Scope 3 (Included Sources)	142.1
Total Emissions	680.8

Current Emissions Reporting

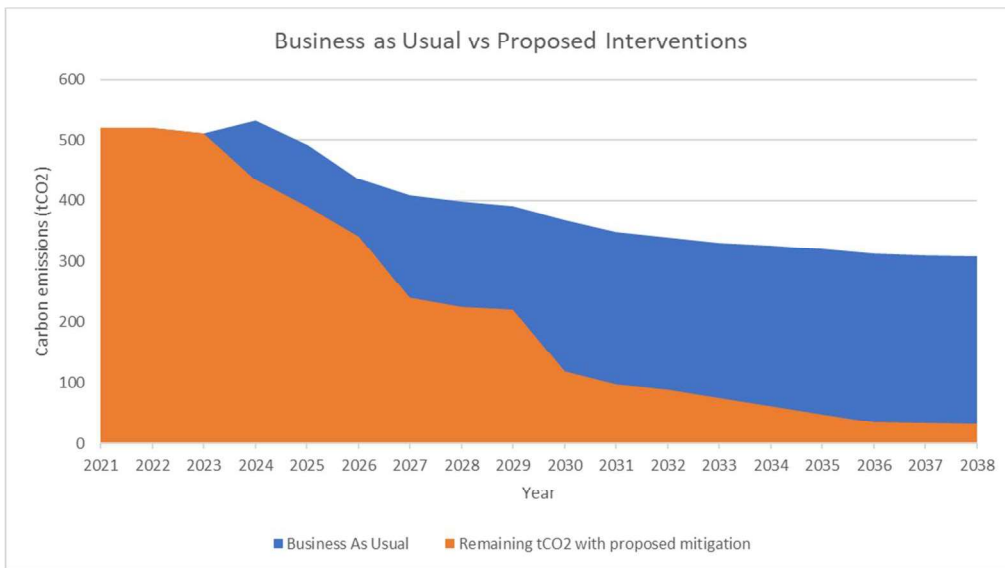
Reporting Year: 2022	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	122.5
Scope 2	33.3
Scope 3 (Included Sources)	136.7
Total Emissions	292.0

Emissions reduction targets

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

- Year 2024 – 17% reduction (Carbon Neutral for Scope 1 & 2 Emissions)
- Year 2028 – 54% reduction (Carbon Neutral for Scope 1 & 2 Emissions)
- Year 2030 – 77% reduction (Carbon Neutral for Scope 1 & 2 Emissions)
- Year 2033 – 86% reduction (Carbon Neutral for Scope 1 & 2 Emissions)
- Year 2038 – Net Zero

The following graph shows our planned trajectory towards our net zero goal:



Carbon Reduction Projects

Russell WBHO has pledged a future reduction in greenhouse gas emissions by a number of methods:

Net Zero by 2038

How will this be achieved on our Constructing Projects?

- Installation of temporary solar photovoltaic system at site welfare accommodation providing up to 30% reduction in site temps energy
- Eco, low energy welfare accommodation with PIR, LED lighting, and timer controlled heating.
- All residual electricity demand will be met by sourcing a 100% renewable energy supplier.
- Decarbonise- Switching:
 - To electric vehicles fleet. Installing EV charging points on site.
 - Diesel to Biofuel (HVO) run generators c/w battery storage
 - Encouraging the use of electrical powered machinery
- Reduce printing by introducing electronic systems, e.g.DocuSign Electronic drawing and quality software systems
- Minimise waste, promote recycling and the use of recycled products to help reduce the waste to landfill, e.g. design out waste

How will this be achieved at Head Office?

- Installation of solar photovoltaic system across the Russell WBHO HQ roof, capable of generating 22MWh electricity per year.
- Reduction in lighting energy consumption through installation of dimming controls and infrared sensors.
- Decreasing run time of Heating, Ventilation, and Cooling (HVAC) systems gradually from 14 hours to 8 hours over an 8 year period.
- All residual electricity demand will be met by sourcing a 100% renewable energy supplier.
- Decarbonise- Switching to electric vehicles fleet. We have already installed 10 no. EV charging points.
- Reduce printing by introducing electronic systems, e.g.DocuSign Electronic drawing and quality software systems
- Minimise waste, promote recycling and the use of recycled products to help reduce the waste to landfill

As members of the UK Green Building Council (UKBC), we have access to numerous industry best practice case studies, guidance documents and training modules that through in-house training, we are able to raise awareness of Net Zero Carbon obligations and support our supply chain.

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:



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Date: 19/04/2023

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>