

Carbon Reduction Plan

Supplier name: 2D Building Contractors Ltd

Publication date: 14/01/2025

Commitment to achieving Net Zero

2D Building Contractors Ltd 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.

Carbon Neutral Britain was engaged by 2D Building Contractors Ltd in order to measure and calculate the organisation's total carbon footprint for 2021/22. With this being the first year of calculations, this year constitutes our baseline year.

Baseline Year: 01/12/21 – 31/11/22

Additional Details relating to the Baseline Emissions calculations.

As building contractors, it was identified that the main emissions were to occur from company owned/leased vehicles and the mileage completed within the reporting period. Using the operational control consolidation approach was determined as the best method for 2D Building Contractors Ltd, due to the standard business structure and business practices. As a result, the following scope of data was collected.

Baseline year emissions:

EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	104.93
Scope 2	2.82
Scope 3 (Included Sources)	28.26 Mainly from waste, with other emissions from business travel, staff commuting, business hotel stays and water usage.
Total Emissions	136.01

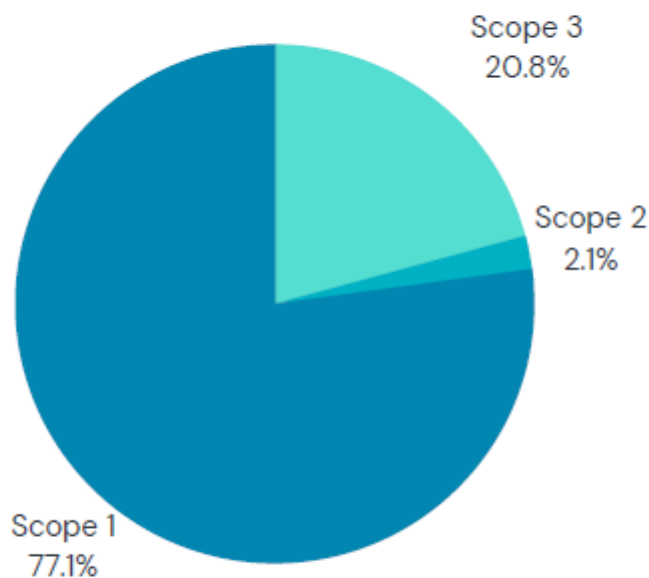
Scope 1 - Stationary and Mobile Source Emissions (equipment and quantity combusted), Company Owned and Leased Vehicles (vehicle type and distance travelled), Refrigerant Gas Losses (refrigerant type and new/disposed units) for the organisation only.

Scope 2 - Energy (electricity, imported heat, steam in kwh) from the office and vehicles, using the location based method.

Scope 3 - Homeworking Energy (Days), Water (consumption and waste volume), Waste (landfill, recycled and composted weight), Business Travel (type and distance), Staff Commuting (average distance and type), Hotel Stays (UK, Europe or Worldwide days).

2D Building Contractors Ltd Carbon (GHG) Emissions

Reporting Period - 01/12/21 - 31/11/22



104.93

Scope 1
Direct Emissions

2.82

Scope 2
Energy Indirect

28.26

Scope 3
Indirect Other

Total
Carbon
Footprint

136.01 tCO2e

GHG Emissions 2021/22 - 136.01 tCO2e

GHG Emissions per FTE - 4.12 tCO2e

Completed 15th December 2022

Emission by Scope

104.93Scope 1
Direct Emissions

The main Scope 1 emissions occurred from the company owned/leased vehicles, and the mileage completed within the reporting period. Other emissions occurred from combustion sources.

2.82Scope 2
Energy Indirect

All Scope 2 emissions occurred from electricity consumption within the reporting period.

28.26Scope 3
Indirect Other

The main Scope 3 emissions occurred from waste. Other emissions occurred from business travel, staff commuting, business hotel stays and water usage.

Current Emissions Reporting

Reporting Year: 2024	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	117.34
Scope 2	2.94
Scope 3 (Included Sources)	38.89 Mainly from a new measure called 'Well to Tank', which was not calculated in the baseline year.
Total Emissions	159.17

The additional emissions source within Scope 3 is due to changes in the guidance notes for the ISO 14064 and GHG Emissions Protocol Standard, where an additional emissions source has been recommended to be included. This is called 'Well to Tank' emissions, which is a Scope 3 emission not included last year.

'Well to Tank' is the carbon footprint of the production, processing and delivery of fuel and gas, before being combusted by an organisation. In the case of 2D, this is the carbon footprint from our vehicle fuel (company cars, business travel and commuting vehicles), before being combusted. Rather than just the emissions of fuel being burnt, there is also a wider carbon footprint from the production, processing, and delivery to the petrol station, which we now include in our report.

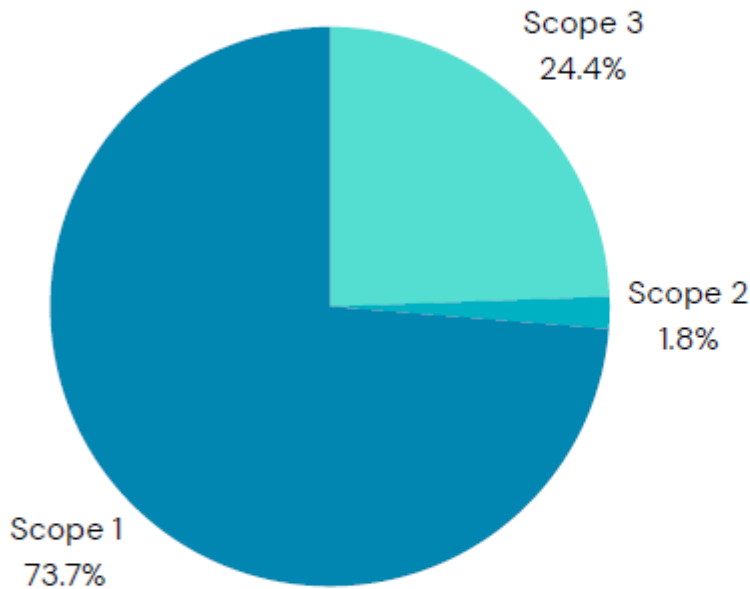
Scope 1 - Stationary and Mobile Combustion Source Emissions (equipment and quantity combusted), Company Owned and Leased Vehicles (vehicle type and distance travelled), Refrigerant Gas Losses (refrigerant type and new/disposed units) for the organisation only.

Scope 2 - Energy (electricity, imported heat, steam in kwh) from the office and vehicles, using the location based method.

Scope 3 - Homeworking Energy (Days), Water (consumption and waste volume), Waste (landfill, recycled and composted weight), Business Travel (type and distance), Staff Commuting (average distance and type), Hotel Stays (UK, Europe or Worldwide days), Transmission and Distribution losses associated with electricity usage (kwh) and Well To Tank emissions from combustion fuels (volume combusted).

2D Building Contractors Ltd Carbon (GHG) Emissions

Reporting Period - 01/11/23 - 31/10/24



117.34

Scope 1
Direct Emissions

2.94

Scope 2
Energy Indirect

38.89

Scope 3
Indirect Other

Total
Carbon
Footprint

159.17 tCO₂e

GHG Emissions 2023/24 - 159.17 tCO₂e
GHG Emissions per FTE - 4.55 tCO₂e

Completed November 2024

Emissions by Scope

117.34

Scope 1
Direct Emissions

The main Scope 1 emissions occurred from the company owned/leased vehicles, and the mileage completed within the reporting period. Other emissions occurred from stationary or mobile combustion sources.

2.94

Scope 2
Energy Indirect

All Scope 2 emissions occurred from electricity consumption within the reporting period.

38.89

Scope 3
Indirect Other

The main Scope 3 emissions occurred from business travel. Other emissions occurred from the energy consumption from waste, staff commuting, business hotel stays, water usage, transmission and distribution losses and well to tank emissions.

Emissions reduction targets

We have seen a slight increase in scope 2 emissions due to more office staff using electrical equipment and an increase in scope 1 emissions due to more vehicles being purchased during this year. We are confident that the new vehicles purchased will provide a better miler per gallon and will, over time, reduce our carbon emissions compared to our baseline year. In order to reduce our scope 1 emissions, we have purchased energy efficient heaters for the office as we believe this was the biggest cause of an increase. Scope 3 emissions have increased due to the new changes in the guidance notes for the ISO 14064 and GHG Emissions Protocol Standard, where an additional emissions source has been recommended to be included. This is called 'Well to Tank' emissions, which is a Scope 3 emission. We have also included subcontractors commuting data in own vehicles which has contributed to the increase, but we feel full transparency is needed for such an important report.

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

- We have achieved out ISO 14001 through a UKAS accredited body, through which we are measured on our implementation of our environmental policy and the improvement cycle that goes hand in hand with this.
- We promote the sharing of lifts to and from jobs to reduce emissions.

- We are in the process of acquiring hybrid vans to have an even bigger impact on the reduction of our emissions. We would look to eventually replace all our fleet vehicles with hybrid vehicles in the next 8 years.
- All vehicles are regularly maintained, and repairs carried out to ensure they run to their maximum efficiency.
- All purchases are done in bulk where appropriate to reduce the amounts of carriage and emissions and also procurement of materials would be done using local companies to reduce any emissions created from delivery vehicles.
- We always try and use only the most efficient and up to date equipment, regularly maintaining our tools and when appropriate replacing them. We have bought into the **Hilti On Track 3 system** which notifies us when a tool or piece of equipment requires its annual service. Again, this takes the form of an app that staff access on their mobile devices. This ensures equipment is working at their most energy efficient levels.
- Our environmental policy states that lights are to be turned off when not in use and also power sockets are switched off at the source to reduce any wasted energy.
- We have purchased energy efficient heaters for the office.

Carbon Offsetting Projects

Although we acknowledge that offsetting isn't the best answer to achieving Net Zero, we have concluded that it is a factor that demonstrates our commitment in the interim period to acting on our emissions in a way that is practical and realistic to our company. Our plan over the next few years is to lower our emissions, so having to offset less, and be that but closer to achieving Net Zero.

Through the Carbon Neutral Britain Climate Fund™, we have offset our total carbon emission through internationally certified carbon offsetting projects. Certified via the Verra – Verified Carbon Standard (VCS), the Gold Standard – Voluntary Emission Reductions (VER) or the United Nations – Certified Emission Reduction (CER) programmes, the projects have also been selected based on their direct and indirect impact around the world – not just in offsetting, but also in supporting education, employment and clean water, as well as having net positive impact on the local wildlife and ecology.

As the three largest, and most regulated voluntary offsetting standards used by organisations and even countries in their emissions reductions – all measurements and tonnes of CO₂e offset are accurate and verified. An example of project supported include:



Project 2151: Household Solar Lighting in Zambia



Project 2112: Wind Power in Karnataka

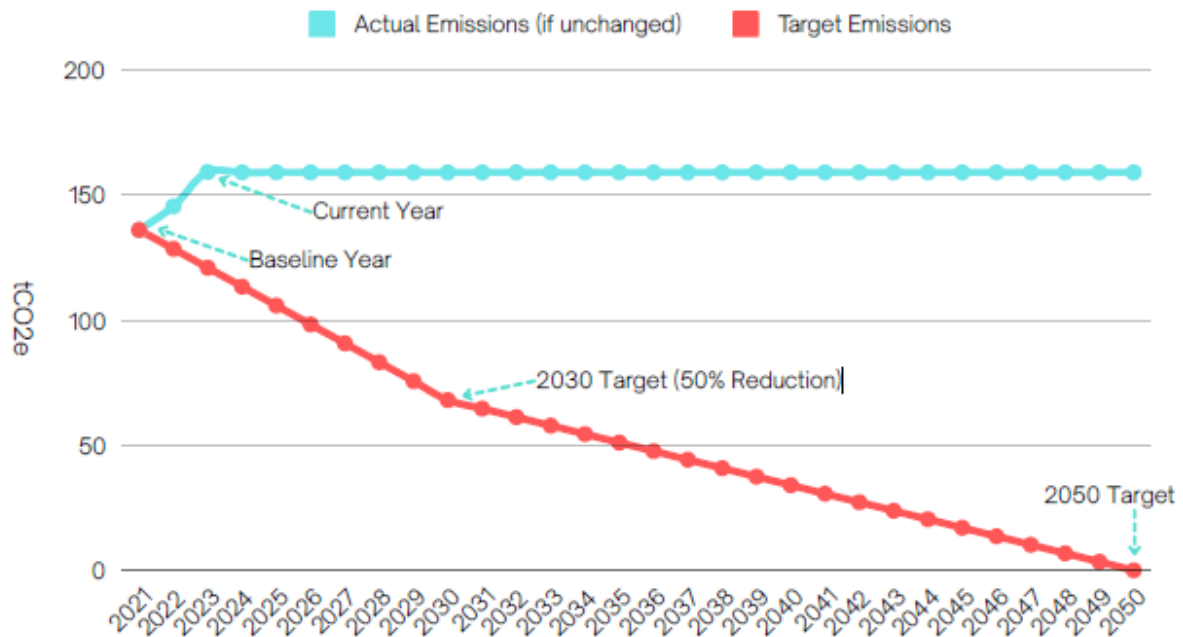


Project 2256: Elazig Solar Farm in Turkey



Project 1165: Salkhit Wind Farm in Mongolia

Reduction Target Plan



In order to achieve a 50% reduction in emissions by 2030, 2D Building Contractors Ltd is required to reduce its emissions by 68.01 tCO₂e from the 'Baseline' assessment by 2030.

This will require a reduction of 5.55% (7.55 tCO₂e) per year from the 'Baseline' (first year) assessment of the organisation. A further reduction of 2.5% (3.40 tCO₂e) each year is then required in order to achieve Net Zero.

Should significant changes to the business size and structure occur in the future - Carbon Neutral Britain will amend the 'baseline' assessment year, as well as look at intensity values (tCO₂e per million turnover, FTE or other metric), to further track and implement reduction strategies.

Reduction Strategies

Although some emission reductions will require technological and third-party improvements, we feel it is a priority to target the three largest avoidable emissions sources of the organisation, in order to make the most impactful, and quickest reduction in emissions possible. The three largest avoidable emission sources are:

Company Owned/Leased Vehicles – 114.83 tCO₂e (72% of total emissions)

Business Travel – 3.67 tCO₂e (2% of total emissions)

Energy Usage on Site - 2.94 tCO₂e (2% of total emissions)

Strategies we will look to action are as follows:

Company Vehicle Emissions

Immediate reduction in vehicle emissions can occur from improved efficiency in the journeys undertaken. If journeys can be avoided (facilitating meetings via video call), routes can be shortened, and ride sharing can occur - small but incremental improvements can be made over time. Switching vehicles to hybrid and/or electric vehicles will understandably have the most significant impact.

Fuel Combustion

The combustion of fuel and gas are often the highest carbon emissions source for businesses, and so will be a key area of focus for the organisation. Wherever possible, analysing when equipment is used - and improving efficiency may help limit unnecessary use and subsequent emissions. Where electric alternatives are available (for example, in the case of forklifts and heaters), significant reductions in emissions can be achieved.

Electricity Consumption

Reducing usage wherever possible through energy efficient machinery, equipment and lighting is best practice to reduce consumption wherever possible. For leased sites (where infrastructure changes are not possible), moving to a more energy efficient site could also be considered. Where hybrid working is possible - limiting the number of staff within the office, and downsizing (therefore lowering energy requirements) could also have a significant impact on the direct energy consumption of the business (working from home staff produce almost half the energy output of the equivalent usage from an office).

Carbon
Neutral
Britain™*Christina Willoughby***CHRISTINA WILLOUGHBY**
Credit Officer*James Poynter***JAMES POYNTER**
DirectorCarbon Neutral Britain Certification™
IS PRESENTED TO**2D Building Contractors
Ltd****Certified
Carbon Neutral****NOVEMBER 2024 - OCTOBER 2025**

This certificate is to verify that 2D Building Contractors Ltd has met all Carbon Neutral Britain Certification™ standards in measuring, calculating and carbon offsetting organisational carbon emissions selected within the Scope 1, 2 and 3 GHG emissions boundary during the period of 1st November 2023 - 31st October 2024.

Certificate No: BCNB - 05114

Calculations made following the ISO 14064-1:2018 and GHG Protocol Emissions Standards.
Credits Issued from one or more of the International Carbon Offsetting standards.

**United Nations**
Framework Convention on
Climate Change
Verified CER**Verified Carbon
Standard**
A VERRA STANDARD**Gold Standard**
for the **Global Goals**

Certification is awarded based on accurate and assumed full disclosure of all relevant and necessary data by the Company. United Nations Credits issued via the Clean Development Mechanism (CDM). VCS is a certification standard for carbon projects and credits. VCS does not oversee retail markets nor does it certify or endorse any retailer or broker of VCU's, visit verra.org. Gold Standard is a certification standard for carbon projects and a registered trademark.

Carbon
Neutral
Britain™*Christina Willoughby***CHRISTINA WILLOUGHBY**
Credit Officer*James Poynter***JAMES POYNTER**
DirectorCertificate of Credit Retirement
IS PRESENTED TO**2D Building Contractors
Ltd****159.17 Tonnes CO₂e
Emissions Offset**

via the Climate Fund™ Portfolio of verified
carbon offsetting projects around the world

Batch Serial #: 7001-50061-20320977-VCS-VCU-029-VER-CER-413-0005654865456516651664

IN THE MONTH OF NOVEMBER 2024

Certificate No: BCNB - 05114

Credits Issued from one or more of the International Carbon Offsetting standards.

**United Nations**
Framework Convention on
Climate Change
Verified CER**Verified Carbon
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A VERRA STANDARD**Gold Standard**
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ORGANISATION**
**CONSIDERATE
CONSTRUCTORS
SCHEME**

Journey to Net Zero



2D Building Contractors has put a plan in place to attempt to beat our target of 2050 as becoming a Net Zero company. This is ambitious, but it allows for a degree of mitigation, should the plan suffer some setbacks.

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:



Tom Dean – Managing Director

Date: 14/01/2025

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>