



## CARBON REDUCTION PLAN

FOR

JAS P WILSON  
**FOREST MACHINES**

Prepared by:



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**JAS P WILSON**  
**Carbon Emissions Report**

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# JAS P WILSON

## Carbon Emissions Report

### 1 Net Zero Commitment

**Jas P Wilson** have committed to a 12-month Net Zero business transformation program called the Beacon Business Net Zero Accelerator, delivered by social enterprise, Net Zero Nation, and supported by South of Scotland Enterprise.

One of the key outcomes of this program is being an advocate for Net Zero to inspire the wider business community to embrace it as a gateway to business growth to make their business stronger, be more competitive within the supply chains they serve and attract the future workforce to join them.

Working within a community of companies taking part in Net Zero Accelerators nationwide, they collaborate and support each other on their journey, providing peer review, creating circular and sustainable approaches to make their business more planet positive and work towards their Net Zero ambitions.

**Net Zero Nation** is a Scottish based social enterprise with a partner network across the United Kingdom. The mission of Net Zero Nation is to help SMEs go further and faster towards their Net Zero goals, tackling climate change. Achieved by mass mobilising SMEs on the Net Zero journey to ensure none are left behind and they fully gain the economic advantages in embracing it as a business imperative. The organisation aims to help regions and communities across the UK become fully capable in delivering the Net Zero Transition by involving all stakeholders across the public, private and academic sectors to drive decarbonisation efforts.

Net Zero Nation helps companies who need carbon certification to bid on contracts, supply chain owners and public sector bodies looking to rapidly gain carbon transparency to meet their own carbon reduction targets in procurement and investment.

**Jas P Wilson** recognises the importance of making a full and lasting commitment to reducing the greenhouse gas emissions from our activities, in support of the wider commitment of the world to limit global temperature increases and the impact on the planet.

We commit to the following:

1. For our company to achieve Net Zero in line with the Science Based targets set out by the UNFCCC i.e. to achieve Net Zero no later than 2050 and target a 50% reduction in emissions by 2030.
2. To set realistic short- and long-term targets that are designed to achieve our Net Zero commitments.
3. To report the total Greenhouse Gas emissions of our business, at a minimum, on an annual basis.

|                                  | Year        | Earlier Year if Possible |
|----------------------------------|-------------|--------------------------|
| <b>Commitment to be Net Zero</b> | <b>2050</b> | <b>2045*</b>             |
| <b>50% Emissions Reduction</b>   | <b>2030</b> | <b>2030</b>              |

\*in line with Scottish Government legislation

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### 2 Company Overview

**Jas P Wilson** is a Limited Company registered in Scotland, company number SC683484, with a registered office address of 51 Newall Terrace, Dumfries, United Kingdom, DG1 1LN. The company operates its business activities from Industrial Site, Coast Road, Dalbeattie, United Kingdom, DG5 4QU.

| Period                           | Current Period (Jan 2022 – Dec 2022) | Previous Period (Jan 2021 – Dec 2021) |
|----------------------------------|--------------------------------------|---------------------------------------|
| Industry                         | Engineering/Forestry                 | Engineering/Forestry                  |
| No. of Staff                     | 70                                   | 65                                    |
| No. of Offices – Owned           | 1                                    | 1                                     |
| No. of Offices – Leased          | 0                                    | 0                                     |
| No. of Company Vehicles - Owned  | 13                                   | 15                                    |
| No. of Company Vehicles - Leased | 8                                    | 8                                     |

**Jas P Wilson** is one of the UK's leading suppliers of forestry and firewood processing equipment and machinery.

### 3 Reporting Period

January 2022 – December 2022

### 4 Organisational Boundary

This report has been constructed using the

- Operational Control Approach

### 5 Operational Scopes

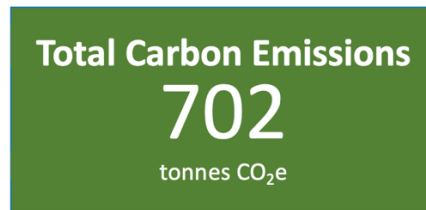
Emissions from Scope 1 & 2 have been measured along with certain Scope 3 emissions. The Scope 3 emissions that have been included are those that have been practical to measure with available data, which are as follows:

- Employee Commuting
- Business Travel/Transport
- Transmission & Distribution of electricity
- Waste (including wastewater)
- Water
- Paper purchased (printing paper consumed)

### 6 Benchmark Year

This is the first time Jas P Wilson has measured and reported on its carbon emissions. The company has provided 2 years of data to be able to better compare overall emissions. Therefore, the benchmark year is **January 2021 – December 2021**.

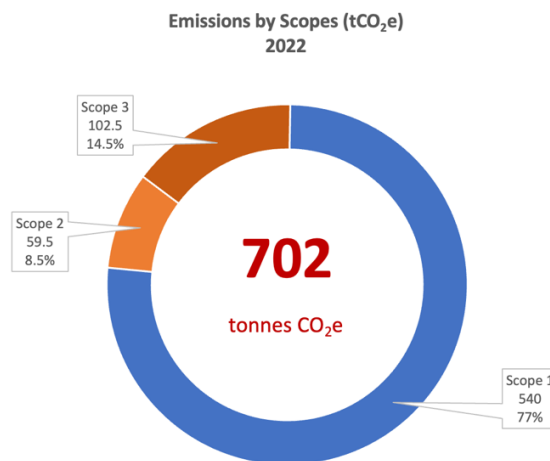
## 7 Carbon Emissions Overview – 12 months to December 2022



The total calculated emissions for the business for the 2022 are 702 tCO<sub>2</sub>e. This is compared to 739.5 tCO<sub>2</sub>e in 2021. This is the first year the company has formally reported its carbon emissions, having internally measured emissions in 2021 but not published, or verified, the data.

The Company will aim to measure an increasing amount of Scope 3 emissions and is committed to reducing their emissions across all scopes.

## 8 Analysis by Scope



Scope 1 emissions amount to 540 tCO<sub>2</sub>e, representing 77% of the company's emissions. Scope 1 emissions include bottled gas, and fuels consumed in the manufacturing process together with fuel consumed by company vehicles. This compared with the 547.0 tCO<sub>2</sub>e in the previous period and represents a decrease of 7 tCO<sub>2</sub>e.

Scope 2 emissions accounts for 8.5% of calculated emissions. This is the grid electricity used at the company's offices and workshops. Scope 2 emissions were 59.5 tCO<sub>2</sub>e in the current period. The office/workshops are not currently on a renewable tariff. This is a decrease of 7.5 tCO<sub>2</sub>e compared to the previous period of 67.0 tCO<sub>2</sub>e.

Scope 3 emissions accounts for 14.5% of calculated emissions and includes:

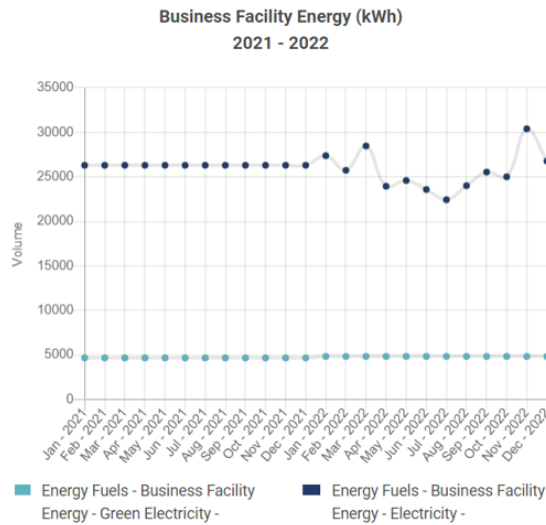
- Employee Commuting
- Business Travel/Transport
- Transmission & Distribution of electricity
- Waste (including wastewater)
- Water
- Paper purchased (printing paper consumed)

Scope 3 emissions were 102.5 tCO<sub>2</sub>e in the current period and 125.5 tCO<sub>2</sub>e in the previous period. This gives a decrease of 23.0 tCO<sub>2</sub>e.

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## Carbon Emissions Report

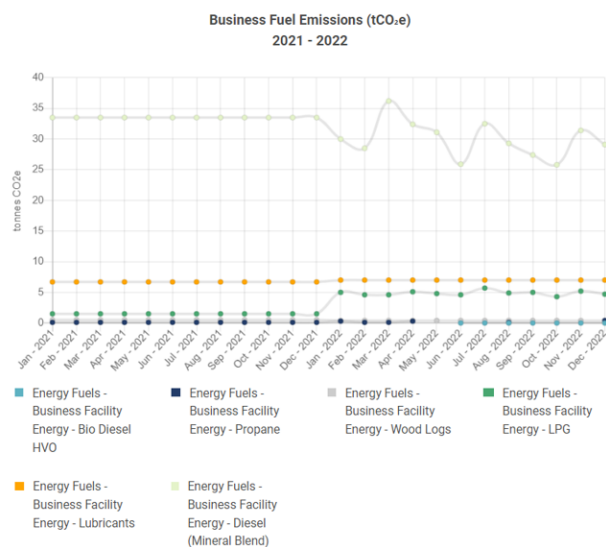
### 9 Business Facility Energy



Office energy consumption was sourced by energy bills and verified by Net Zero International. None of the premises utilised by the company is on a renewable tariff. The total calculated electricity emissions were 59.5 tCO<sub>2</sub>e which is the total business facility energy and accounts for approximately 8.7% of the total calculated emissions of 702 tCO<sub>2</sub>e. This is a decrease of 7.5 tCO<sub>2</sub>e of the total calculated electricity emissions compared with the previous period of 67.0 tCO<sub>2</sub>e.

The calculated renewable electricity produced by biomass was 58,027 kWh and the electricity from the grid was 307,764 kWh for the current reporting period. The total renewable electricity consumption accounted for approximately 15.9% of the total business facility energy of 365,791 kWh. In the previous period, the calculated renewable electricity consumption was 56,105 kWh and 315,552 kWh for grid electricity consumption. The total renewable electricity consumption accounted for approximately 15.1% of the total business facility energy of 317,657 kWh in the previous period.

### 10 Fuel Emissions Analysis



The total calculated fuel emissions were 528.5 tCO<sub>2</sub>e which accounts for approximately 75% of the total calculated emissions of 702 tCO<sub>2</sub>e. This compares to the previous period of 507.6 tCO<sub>2</sub>e, is an increase of 21 tCO<sub>2</sub>e for fuel emissions. In the previous period, the fuel emissions account for approximately 68.6% of the total calculated emissions of 739.5 tCO<sub>2</sub>e.

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## Carbon Emissions Report

### 11 Intensity Metric Analysis

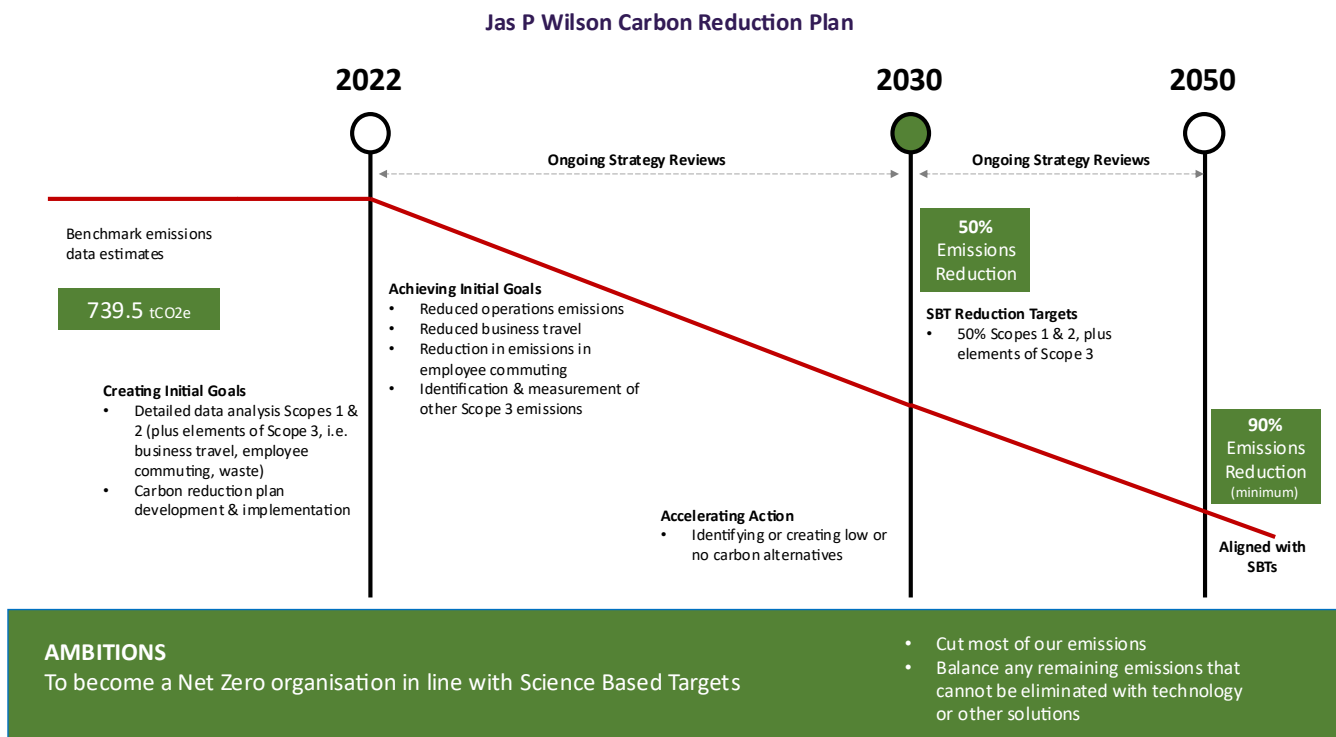
Intensity Metrics (tCO<sub>2</sub>e)

|              |                        |
|--------------|------------------------|
|              | 2023                   |
| Per Employee | Scopes 1, 2 & 3 10..03 |

The chosen intensity metric shows a carbon emissions value of 10.03 tCO<sub>2</sub>e per employee. The business headcount averaged 70 people during the benchmark period.

### 12 Emissions Reductions Targets

The following graph summarises the carbon emissions reduction targets.



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**Carbon Emissions Report**

### 13 Carbon Reduction Projects

Jas P Wilson LTD will develop the following initiatives that will support the company's strategies to meet Science Based Targets:

| Strategy                       | Initiative                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Net Zero Nation Accelerator    | <ul style="list-style-type: none"><li>JAS P Wilson have joined the Net Zero Nation Accelerator on a 12-month program to measure, manage and reduce business emissions in collaboration with other organisations and as part of a wider business initiative.</li></ul>                                                                                                                            |
| Engagement of Team             | <ul style="list-style-type: none"><li>Continued employee engagement across all our business operations. We have an established Net Zero team which will continue to act as the main channel for co-ordinating all our carbon reduction activities, actions, and communications. The Net Zero team meets monthly and has documented actions and agendas.</li></ul>                                |
| Sustainable Travel Policy      | <ul style="list-style-type: none"><li>To have a sustainable travel/transport policy in place by December 2024. The Net Zero team will continue to monitor and review the Company policy for all work-related travel. This is fed back to the key stakeholders within the business for sign off.</li></ul>                                                                                        |
| Sustainable Supplier Policy    | <ul style="list-style-type: none"><li>To develop a sustainable supplier policy by December 2023. The survey and plan will be formulated in 2023 and the roll out will commence in Q1 2024</li></ul>                                                                                                                                                                                              |
| Energy Review                  | <ul style="list-style-type: none"><li>In 2023 we are undertaking a feasibility study to install a solar energy system at our premises and are keen to move to non-grid electricity as soon as is practical.</li><li>In 2023 we will carry out a full review of energy usage across the site, this will include voltage metering/optimisation, LED adoption and energy storage options.</li></ul> |
| Sustainable Company Car Policy | <ul style="list-style-type: none"><li>To have a sustainable company car policy (electric car feasibility) in place by 30 June 2024. This coincides with the renewal process of the current fleet.</li></ul>                                                                                                                                                                                      |

**Signed on behalf of Jas P Wilson**

Name: **Phil Robinson**



Position: **Continuous Improvement Manager**

Date: **7<sup>th</sup> July 2023**

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**14 Emissions Data**

The data contained in the table below represents total emissions calculated and is consistent with SECR requirements. All sources of emissions that have been measured are included in the totals below. Emissions from key activities are summarised in the previous sections.

|                                                                                                                                                             | SECR Status      | Current Reporting Year<br>Jan 22–Dec 22 | Previous Reporting Year<br>Jan 21–Dec 21 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------------|------------------------------------------|
| Energy consumption used to calculate emissions Electricity Scope 2 - UK & Offshore (kWh)                                                                    | Mandatory        | 365,791                                 | 371,657                                  |
| Energy consumption used to calculate emissions – Global, excluding UK & Offshore (kWh)                                                                      | Mandatory        | N/A                                     | N/A                                      |
| Basis of Energy reporting (Location or Market)                                                                                                              |                  | Location                                | Location                                 |
| % of total energy sourced from certified renewable sources                                                                                                  |                  | 15.86%                                  | 15.10%                                   |
| Emissions associated with energy consumption - UK, Offshore & Global (tCO <sub>2</sub> e)                                                                   |                  | 59.5                                    | 67.0                                     |
| Emissions from activities for which the company is responsible including combustion of fuel & operation of facilities - <b>Scope 1</b> (tCO <sub>2</sub> e) | Mandatory        | 540                                     | 547.0                                    |
| Emissions from purchase of electricity, heat, steam and cooling purchased for own use - <b>Scope 2</b> (tCO <sub>2</sub> e)                                 | Mandatory        | 59.5                                    | 67.0                                     |
| <b>Total Scope 1 &amp; 2 Emissions (tCO<sub>2</sub>e)</b>                                                                                                   | <b>Mandatory</b> | <b>599.5</b>                            | <b>614.0</b>                             |
| Emissions from upstream activities out of operational control - <b>Scope 3</b> (tCO <sub>2</sub> e)                                                         | Optional         | <b>102.5</b>                            | <b>125.5</b>                             |
| Emissions from use of sold products and services out of operational control - <b>Scope 3</b> (tCO <sub>2</sub> e)                                           | Optional         | None included                           | None included                            |
| <b>Total Gross Scope 3 Emissions (tCO<sub>2</sub>e)</b>                                                                                                     | <b>Optional</b>  | <b>102.5</b>                            | <b>125.5</b>                             |
| <b>Total Scope 1, 2 &amp; 3 Emissions (tCO<sub>2</sub>e)</b>                                                                                                | <b>Optional</b>  | <b>702</b>                              | <b>739.5</b>                             |
| Intensity ratio tCO <sub>2</sub> e (gross Scope 1, 2 & 3) per employee                                                                                      | Optional         | 10.03                                   | 11.38                                    |
| Carbon offsets (tCO <sub>2</sub> e)                                                                                                                         | Optional         | <b>0.0</b>                              | <b>0.0</b>                               |
| <b>Total Annual Net Emissions (tCO<sub>2</sub>e)</b>                                                                                                        | <b>Optional</b>  | <b>702</b>                              | <b>739.5</b>                             |

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**15 Data Overview**

| Data Details                      |       | 2022       | 2021         |                         |                 |
|-----------------------------------|-------|------------|--------------|-------------------------|-----------------|
| Emission Type                     | Scope | tCO2e      | tCO2e        | Data Source (2021-2022) | Data Confidence |
| <b>Energy</b>                     |       |            |              |                         |                 |
| Gas                               | 1     | 0          | 0            | No Gas on site          | High            |
| Electricity                       | 2     | 59.5       | 67.0         | Electricity Bills       | High            |
| <b>Fuels</b>                      |       |            |              |                         |                 |
| Biomass - Logs                    | 1     | 4.5        | 6.2          | Tonnes of wood burnt    | High            |
| Fuels - Gaseous (Bottled Gas)     | 1     | 80.0       | 18.8         | Volumes Used            | High            |
| Fuels - Liquid                    | 1     | 359.6      | 401.8        | Volumes Used            | High            |
| Bio Fuels - Bio-diesel HVO        | 1     | 0.1        | 0.0          | Volumes Used            | High            |
| Lubricants - Oil                  | 1     | 84.4       | 80.8         | Volumes Used            | High            |
| <b>Business Travel</b>            |       |            |              |                         |                 |
| Car - Average                     | 1     | 11.3       | 39.4         | Business Travel System  | High            |
| <b>Employee Commuting</b>         |       |            |              |                         |                 |
| Car - Average                     | 3     | 90.1       | 110.9        | Employee Survey         | Medium          |
| Car - Electric                    | 3     | 3.2        | -            | Employee Survey         | Medium          |
| <b>Other Emissions Calculated</b> |       |            |              |                         |                 |
| Materials Used                    | 3     | 0.6        | 0.7          | Paper Usage             | High            |
| Waste                             | 3     | 2.5        | 7.2          | Average Collection Data | Medium          |
| Water Supply                      | 3     | 0.3        | 0.3          | Water Bills             | High            |
| Waste Water                       | 3     | 0.5        | 0.5          | Water Bills             | High            |
| Transmission & Distribution       | 3     | 5.4        | 5.9          | Electricity Bills       | High            |
| <b>TOTAL</b>                      |       | <b>702</b> | <b>739.5</b> |                         |                 |

## 16 Standard and Methodology Used

**Jas P Wilson** categorises its Greenhouse Gas (GHG) Emissions as Scope 1, 2 or 3 as referred to in the WBCSD – WRI Greenhouse Gas Protocol (revised edition, dated March 2014). Emissions in Carbon Dioxide equivalent (CO<sub>2</sub>e) for all scopes are calculated using the conversion factors listed in BEIS Greenhouse Gas Conversion Factors for the relevant 12-month period over which the Carbon Footprint is calculated. Procured renewable electricity and gas is calculated in accordance with the WBCSD – WSI Scope 2 Guidance on procured renewable energy (2015).

## 17 Data Quality / Confidence

The data used to generate this report has been collected from various sources from both within the company and using assumptions gathered by Net Zero International. These emissions have been converted to CO<sub>2</sub>e using GHG Protocol and BEIS frameworks and conversion factors for the relevant period.

## 18 Declaration & Sign Off

This Carbon Reduction Plan has been completed in accordance with SECR, 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 Net Zero International**

Name: **David Hawes**



Position: **Co-Founder**

**Signed on behalf of Net Zero Nation**

Name: **Tabitha Jayne**



Position: **Chair**

Date: **7<sup>th</sup> July 2023**

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**19 Glossary**

|                                              |                                                                                                                                                                                                                                                             |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Benchmark Data</b>                        | The chosen 12-month period that sets the calculated emissions that need to be mitigated and/or offset.                                                                                                                                                      |
| <b>Carbon Reduction</b>                      | Reduction in measured CO <sub>2</sub> e emissions                                                                                                                                                                                                           |
| <b>Carbon Reduction Plan</b>                 | Plan to reduce CO <sub>2</sub> e emissions over a period of time, updated annually                                                                                                                                                                          |
| <b>Carbon Emissions (Gross)</b>              | CO <sub>2</sub> e emissions from Company activities                                                                                                                                                                                                         |
| <b>Carbon Emissions (Net)</b>                | CO <sub>2</sub> e emissions from Company activities minus verified carbon offsets the Company purchases                                                                                                                                                     |
| <b>Carbon Neutral</b>                        | When emissions are fully offset including those emissions that could be mitigated.                                                                                                                                                                          |
| <b>Carbon Offsets</b>                        | A removal or reduction of carbon emissions through a verified scheme.                                                                                                                                                                                       |
| <b>CO<sub>2</sub>e</b>                       | All greenhouse gases expressed in terms of Carbon Dioxide equivalent (CO <sub>2</sub> e) for consistency of reporting.                                                                                                                                      |
| <b>DESNZ</b>                                 | Department of Energy Security and Net Zero<br>( <a href="https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting">https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting</a> ) |
| <b>EEIO</b>                                  | Environmentally Extended Input Output – Emissions estimated on spend<br><a href="https://ghgprotocol.org/">https://ghgprotocol.org/</a>                                                                                                                     |
| <b>GHG Protocol</b>                          | Greenhouse Gas Protocol<br><a href="https://ghgprotocol.org/">https://ghgprotocol.org/</a>                                                                                                                                                                  |
| <b>Greenhouse Gases</b>                      | Carbon Dioxide (CO <sub>2</sub> ), Methane (CH <sub>4</sub> ), Nitrous Oxide (N <sub>2</sub> O), Chlorofluorocarbons (CFCs and HCFCs), Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), Sulphur Hexafluoride (SF <sub>6</sub> )                          |
| <b>Greenhouse Gas Conversion Factors</b>     | Annually published conversion factors normally published by relevant government departments. Converts activity into CO <sub>2</sub> e emissions.                                                                                                            |
| <b>Greenhouse Gas Emissions (GHG)</b>        | Gases in the atmosphere that absorb and radiate heat                                                                                                                                                                                                        |
| <b>Intensity Metric/Ratio</b>                | A metric that measures carbon emissions per relevant unit of activity in a business.                                                                                                                                                                        |
| <b>Market Reporting v Location Reporting</b> | Market is based on specific tariffs. Location is based on the emissions factor published for the country from which you are reporting.                                                                                                                      |
| <b>Net Zero</b>                              | GHG emissions are mitigated and those that cannot are offset                                                                                                                                                                                                |
| <b>Renewable Tariff</b>                      | An energy tariff that is 100% powered by renewable energy and is certified.                                                                                                                                                                                 |
| <b>SBT</b>                                   | Science Based Targets – reducing emissions by 50% by 2030 and by 90% by 2050 and offsetting the remaining amount.                                                                                                                                           |
| <b>Scope 1</b>                               | The fuels that are burnt (gas, transport the company owns, refrigerant gases)                                                                                                                                                                               |
| <b>Scope 2</b>                               | The energy that is bought (electricity from the grid, purchased heat)                                                                                                                                                                                       |
| <b>Scope 3</b>                               | Emissions embedded in everything a company buys and emitted as a consequence of everything a company sells.                                                                                                                                                 |
| <b>SECR</b>                                  | Streamlined Energy & Carbon Reporting                                                                                                                                                                                                                       |
| <b>tCO<sub>2</sub>e</b>                      | Metric tonnes of CO <sub>2</sub> equivalent emitted.                                                                                                                                                                                                        |
| <b>WBCSD</b>                                 | World Business Council for Sustainable Development<br><a href="https://www.wbcsd.org/">https://www.wbcsd.org/</a>                                                                                                                                           |
| <b>WRI</b>                                   | World Resource Institute<br><a href="https://www.wri.org/">https://www.wri.org/</a>                                                                                                                                                                         |