



CARBON REDUCTION PLAN

FOR



Prepared by:



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Emergency One Group Carbon Emissions Report

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1 Net Zero Commitment

Having completed their foundation year in 2023-2024, **Emergency One Group Ltd** has entered their second year (2024-2025) in the Net Zero Accelerator business transformation program, delivered by the social enterprise Net Zero Nation. A key outcome of this program is normalising Net Zero as everyday practices that are embedded in the heart of the business. A further outcome is advocating for Net Zero as an opportunity rather than a cost; to inspire the broader business community to view it as a gateway to growth, enhancing business strength, competitiveness within supply chains, and attracting the future workforce.

Within a community of companies participating in Net Zero Accelerators nationwide, they collaborate and support each other, providing collective learning, peer review and developing circular, sustainable approaches and adopting the innovation to make their businesses more planet-positive while working towards their Net Zero goals.

As a Year Two company in the Net Zero Nation ecosystem, Emergency One is actively influencing and supporting the next generation of companies in creating a clearly defined pathway to Net Zero aligned with Science Based Targets. They are supporting companies within their supply chains and several cohorts on Accelerators across the United Kingdom, significantly contributing to the Net Zero Transition and creating social impact as a result.

Net Zero Nation, a purpose-driven social enterprise founded in 2021, aims to accelerate efforts in tackling the climate crisis by systematically helping companies normalise Net Zero practices and embed them at the core of their operations. This is achieved through the multi-year Net Zero Accelerator program, which brings together cohorts of companies to collectively learn, share, and inspire each other. Over time, this collaborative approach helps companies gain the confidence to implement innovative and best practices in decarbonisation, creating new efficiencies and accelerating the Net Zero Transition.

Within this ecosystem, companies partner and trade with each other in a Net Zero marketplace, driving towards a lower-carbon economy. The Net Zero Nation ecosystem helps companies achieve competitive advantage, efficiency, increased investment appeal, and the ability to attract the future workforce. This brand differentiation is built through collaborative, authentic, and validated sustainability strategies developed during the Net Zero Accelerator program, enhancing credibility and trust with customers, partners, and investors.

Net Zero International is a delivery partner of Net Zero Nation with deep expertise in producing carbon accounts and reduction plans aligned with international standards. They have been working with Net Zero Nation and notch (carbon accountancy software) since 2021 and are founding members of the Carbon Accounting Alliance.

Emergency One Group 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
Commitment to be Net Zero	2050	2045*
50% Emissions Reduction	2030	

*In line with Scotland targets

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2 Background Information

2.1 Company

Emergency One Group is a Limited Company registered in England, company number SC631186, with a registered office address of 3a Caponacre Industrial Estate, Cumnock, Ayrshire, Scotland KA18 1SH.

Emergency One Group is the largest supplier of fire vehicles and operational equipment within the UK. From our base in Cumnock, East Ayrshire, the company design, manufacture, refurbish and service firefighting appliances, other specialist emergency and support vehicles and product equipment. The organisation also supplies service rescue and safety equipment, environmental protection products, operator training on the use of such equipment to meet the customer and market needs. We have seen expansion into other areas in Mainland Europe, Mediterranean & Middle East and Antipodean markets. As a commitment to reducing the carbon footprint of our company and customers, the company has developed and launched the world's first all-electric Fire and Rescue Vehicle onto the market. The company has entered a green initiative partnership with a global company to provide training and knowledge sharing for conversion of diesel-powered vehicles to electric. The company are also committed as part of a partnership with two other third parties to participate in a project to produce a hydrogen powered Fire and Rescue vehicle.

Reporting Period	Benchmark Period January 2022 – December 2022	Current Period January 2024 – December 2024
Industry	Manufacturing	Manufacturing
No. of Staff	234	270
No. of Premises Owned	2	3
No. of Premises Leased	0	0
No. of Company Vehicles - Owned	27	20
No. of Company Vehicles - Leased	0	0

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2.2 Current Reporting Period

January 2024 – December 2024

2.3 Organisational Boundary

There are 3 different approaches to measuring emissions, as defined by the GHG Protocol. This report has been constructed using the **Operational Control Approach**, considering the requirements of each potential approach.

Approach	Description	Approach Taken
Operational Control	The organisation has operational control over an operation if it or one of its subsidiaries has the full authority to introduce and implement its operating policies at the operation.	✓
Financial Control	The organisation has financial control over the operation if it has the ability to direct the financial and operating policies of the organisation with a view to gaining economic benefits from its activities.	
Equity Share	The organisation accounts for GHG emissions from operations according to its share of equity in the operation.	

2.4 Benchmark Year

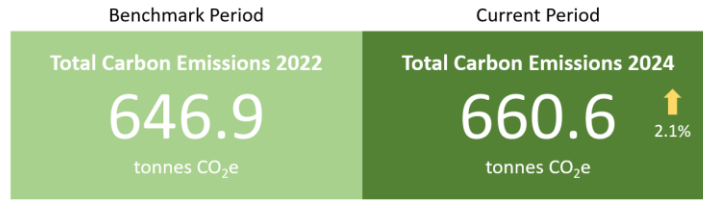
The organisation's benchmark year is from January 2022 – December 2022. This is the third time the organisation has measured and reported on its carbon emissions.

2.5 Methodologies Used

Throughout this report all methodologies used are explained within the relevant sections.

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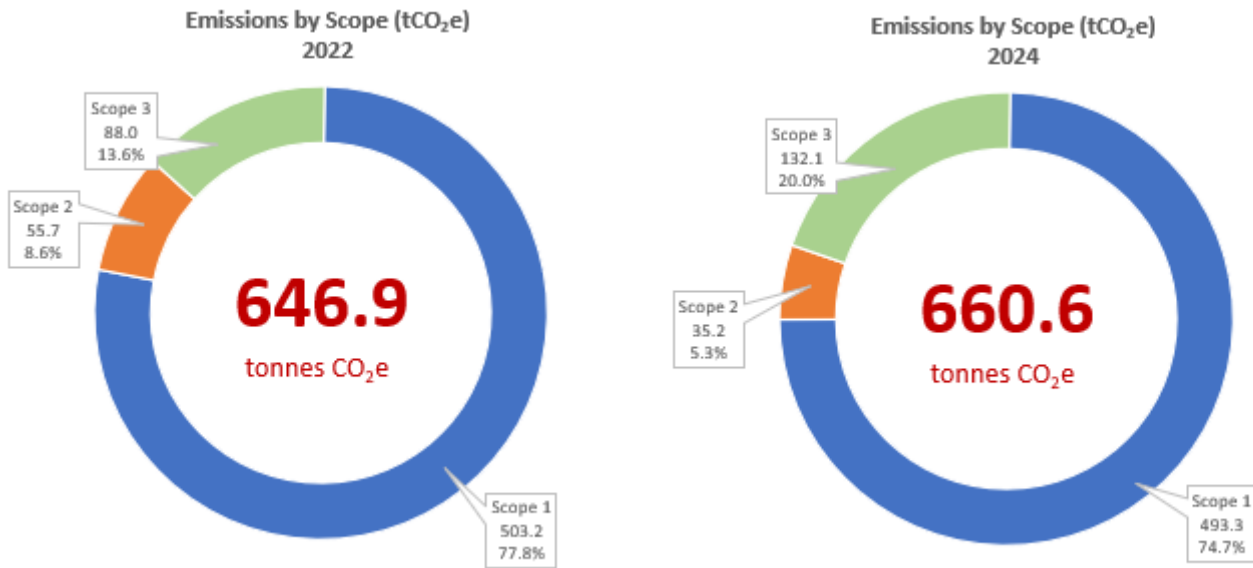
3 Carbon Emissions Overview



The total calculated emissions for the business for the period 2024 are 660.6 tCO₂e, an increase of 2.1% from the benchmark period.

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

4 Analysis by Scope

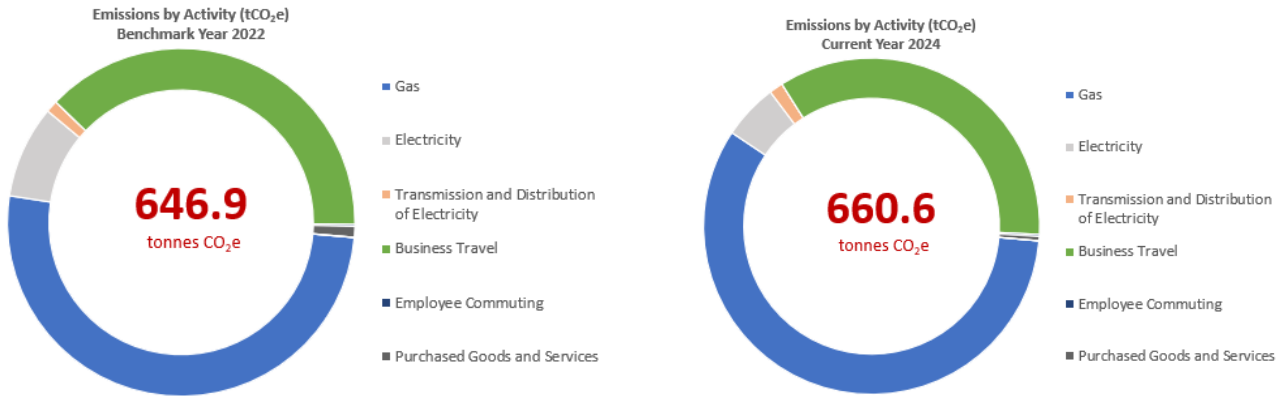


Scope	Description	tCO ₂ e	%
Scope 1	Scope 1 emissions included fuels used in company offices and company vehicles.	493.3	74.7%
Scope 2	There were no scope 2 emissions recorded in the reporting period. The office is on a fully renewable tariff.	35.2	5.3%
Scope 3	Scope 3 emissions include: <ul style="list-style-type: none"> • Business Travel • Employee commuting • Transmission and Distribution of Electricity • Purchased Goods and Services 	132.1	20.0%
TOTAL		660.6	100%

Reported Scope 3 emissions may increase in future years as more detailed data and information becomes available.

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5 Emissions by Activity




Data Details		2022	2024		
Emission Type	Scope	t CO ₂ e	t CO ₂ e	Data Source	Data Confidence
Energy					
Gas	1	330.3	383.1	Gas Bills	High
Electricity	2	55.7	35.2	Electricity Bills	High
Transmission and Distribution of Electricity	3	7.2	8.8	Electricity Bills	High
		393.2	427.1		
Business Travel					
Car - Diesel	1	173.0	110.2	Mileage Data	High
Ferry	3	0.5	0.0	Mileage Data	High
Plane	3	71.5	118.9	Mileage Data	High
Rail	3	0.1	0.0	Mileage Data	High
Taxis	3	0.9	0.4	Mileage Data	High
		246.0	229.5		
Employee Commuting					
Car - Electric	3	1.1	1.0	Employee Survey	Medium
Taxis	3	0.0	0.2	Employee Survey	Medium
		1.1	1.2		
Other Emissions Calculated					
Waste Disposal	3	2.8	1.1	Waste Transfer Notices	High
Water Supply and Treatment	3	3.8	1.7	Water Bills	High
		6.6	2.8		
TOTAL		646.9	660.6		

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6 Intensity Metric Analysis

Intensity metrics help normalise emissions data, taking into account variations in production levels or activity volumes. This allows for a more accurate assessment of emission trends over time, regardless of changes in business operations. The initial intensity metrics for the company are below and will be used for comparative purposes in following years.

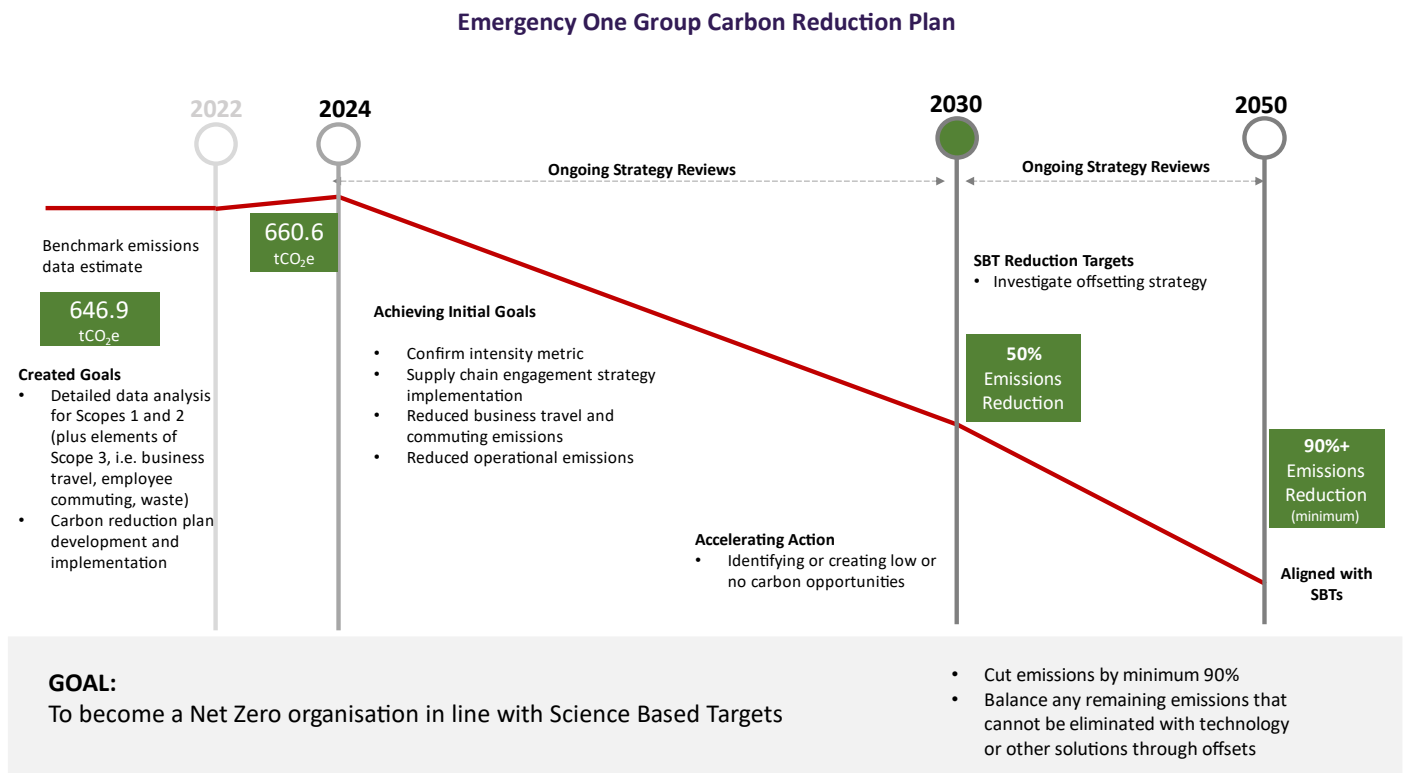
Intensity Metrics (tCO₂e)

	2022	2024	Increase/ Decrease %
 Per Employee	2.5	2.6	+1.3%
Scopes 1, 2 & 3	2.5	2.6	+1.3%

The chosen intensity metrics shows a carbon emissions value of 2.6 tCO₂e per employee, which is an increase of 1.3 % from the benchmark year. The business headcount averaged 257 people during the reporting period and exited the reporting period with 270 employees. This is due to the increased growth of demand and production.

7 Emissions Reductions Targets

The following graph summarises the carbon emissions reduction targets.



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8 Carbon Reduction Actions

Emergency One Group will develop the following initiatives that will support the company's strategies to meet Science Based Targets:

Area of Focus	Initiative
Collective learning and progress on the Net Zero Nation Accelerator	<ul style="list-style-type: none"> Emergency One Group are now in their second year of the Net Zero Nation Accelerator. A 12-month program to help normalise Net Zero and embed it in the heart of their business. Through collaboration and leading Net Zero Accelerator cohorts, Emergency One are influencing emissions reductions for many companies, amplifying the effect of their commitment to Net Zero. Emergency One has a leading role in supporting the Focus North 2024/2025 Accelerator cohort of 15 organisations in Caithness with their Net Zero transformation. Emergency One view this as part of a wider business initiative to be people and planet positive.
Supply Chain Engagement	<ul style="list-style-type: none"> Emergency One are performing supply chain readiness and education programs for their supply chains which will accelerate the Net Zero transition, targeting measurable reductions in their Scope 3 emissions Emergency One are collaborating with other organisations within the Net Zero Nation ecosystem to make it easier for SMEs to address and meet carbon reporting standards
Employee Engagement	<ul style="list-style-type: none"> Ensuring the team are aware of the report and their impact on the emissions of the business. Create opportunities for the team to contribute to ideas and opportunities to reduce emissions. The next generation workforce will be participating in sustainability challenges run by Earthshot nominee Powering Futures to fully engage them and unlock innovation to drive the Net Zero transition.
Community Engagement	<ul style="list-style-type: none"> Emergency One are supporting local schools with the sustainability curriculum, helping teachers prepare students for the jobs of the future Mentoring the students on the sustainability plans at Emergency One is helping engage the wider community in taking collective Net Zero action together.
Energy Efficiency Review	<ul style="list-style-type: none"> The company continues to review business facility energy contracts and strategy to support decisions. To investigate the introduction of a new water tank and pump testing to improve our efficient use of water.
Vehicle Design Process	<ul style="list-style-type: none"> We constantly review our design strategy and look to improve the efficiency of our processes to reduce waste, improve the LCA of our products.
Data Quality	<ul style="list-style-type: none"> To improve the quality and accuracy of data to ensure more accurate measurement of our emissions.

Signed on behalf of Emergency One Group

Name: **Steven Bell**



Position: **Managing Director**

Date: 7th April 2025

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9 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.

	Benchmark Reporting Year Jan 22 – Dec 22	Current Reporting Year Jan 24 – Dec 24
Energy consumption used to calculate emissions Electricity Scope 2 - UK and Offshore (kWh)	407,889	480,380
Energy consumption used to calculate emissions – Global, excluding UK and Offshore (kWh)	N/A	N/A
Basis of Energy reporting (Location or Market)*	Market	Market
% of total energy sourced from certified renewable sources	29.4%	64.7%
Emissions associated with energy consumption - UK, Offshore and Global – Scope 2 (tCO ₂ e)	55.7	35.2
Emissions from activities for which the company is responsible including combustion of fuel and operation of facilities - Scope 1 (tCO ₂ e)	503.3	493.3
Emissions from purchase of electricity, heat, steam and cooling purchased for own use - Scope 2 (tCO ₂ e)	55.7	35.2
Total Scope 1 and 2 Emissions (tCO₂e)	559	528.5
Emissions from upstream activities out of operational control - Scope 3 (tCO ₂ e)	87.9	132.1
Emissions from use of sold products and services out of operational control - Scope 3 (tCO ₂ e)	None included	None included
Total Gross Scope 3 Emissions (tCO₂e)	87.9	132.1
Total Scope 1, 2 and 3 Emissions (tCO₂e)	646.9	660.6
Intensity ratio tCO ₂ e (gross Scope 1, 2 and 3) per employee	2.5	2.6
Carbon offsets (tCO ₂ e)	0.0	0.0
Total Annual Net Emissions (tCO₂e)	646.9	660.6

* A location-based method reflects the average emissions intensity of grids on which energy consumption occurs (using mostly grid-average emission factor data). A market-based method reflects emissions from electricity that companies have purposefully chosen. The emissions are 99.5 tCO₂e using the location-based method.

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10 Standard and Methodology Used

Emergency One Group 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 (CO₂e) for all scopes are calculated using the conversion factors listed in DESNZ Greenhouse Gas Conversion Factors for the relevant 12-month period over which the carbon emissions are calculated. Procured renewable electricity and gas is calculated in accordance with the WBCSD – WSI Scope 2 Guidance on procured renewable energy (2015).

11 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 CO₂e using GHG Protocol and DESNZ frameworks and conversion factors for the relevant period.

12 Declaration and 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 agreed by the board of directors (or equivalent management body).

Signed on behalf of Net Zero International

Name: **David Hawes**



Position: **Chief Executive Officer**

Date: 7th April 2025

Signed on behalf of Net Zero Nation

Name: **Steven Turner**



Position: **Chief Executive Officer**

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13 Glossary

Benchmark Data	The chosen 12-month period that sets the calculated emissions that need to be mitigated and/or offset.
Carbon Reduction	Reduction in measured CO ₂ e emissions
Carbon Reduction Plan	Plan to reduce CO ₂ e emissions over a period of time, updated annually
Carbon Emissions (Gross)	CO ₂ e emissions from Company activities
Carbon Emissions (Net)	CO ₂ e emissions from Company activities minus verified carbon offsets the Company purchases
Carbon Neutral	When emissions are fully offset including those emissions that could be mitigated.
Carbon Offsets	A removal or reduction of carbon emissions through a verified scheme.
CO₂e	All greenhouse gases expressed in terms of Carbon Dioxide equivalent (CO ₂ e) for consistency of reporting.
DESNZ	Department of Energy Security and Net Zero (https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting)
EEIO	Environmentally Extended Input Output – Emissions estimated on spend https://ghgprotocol.org/
Organisational Boundaries	GHG Protocol Organisational Boundaries https://ghgprotocol.org/sites/default/files/standards/ghg-protocol-revised.pdf
GHG Protocol	Greenhouse Gas Protocol https://ghgprotocol.org/
Greenhouse Gases	Carbon Dioxide (CO ₂), Methane (CH ₄), Nitrous Oxide (N ₂ O), Chlorofluorocarbons (CFCs and HCFCs), Hydrofluorocarbons (HFCs), Perfluorocarbons (PFCs), Sulphur Hexafluoride (SF ₆)
Greenhouse Gas Conversion Factors	Annually published conversion factors normally published by relevant government departments. Converts activity into CO ₂ e emissions.
Greenhouse Gas Emissions (GHG)	Gases in the atmosphere that absorb and radiate heat
Intensity Metric/Ratio	A metric that measures carbon emissions per relevant unit of activity in a business.
Market Reporting v Location Reporting	Market is based on specific tariffs. Location is based on the country from which you are reporting.
Net Zero	GHG emissions are mitigated and those that cannot are offset
Renewable Tariff	An energy tariff that is 100% powered by renewable energy and is certified.
SBT	Science Based Targets – reducing emissions by 50% by 2030 and by 90% by 2050 and offsetting the remaining amount.
Scope 1	The fuels that are burnt (gas, transport the company owns, refrigerant gases)
Scope 2	The energy that is bought (electricity from the grid, purchased heat)
Scope 3	Emissions embedded in everything a company buys and emitted as a consequence of everything a company sells.
SECR	Streamlined Energy and Carbon Reporting
tCO₂e	Metric tonnes of CO ₂ equivalent emitted.
WBCSD	World Business Council for Sustainable Development https://www.wbcsd.org/
WRI	World Resource Institute https://www.wri.org/