

Our environmental stewardship and journey to net-zero carbon.

Our Sustainability Strategy

THOMAS DUDLEY TD



Defining Net Zero

'Carbon emissions' is the term used to describe the seven main Greenhouse Gases (GHGs) responsible for global warming. It is commonly expressed as CO_2e (carbon dioxide equivalent), based on the global warming potential over 100 years of GHGs such as methane and nitrous oxide in relation to carbon dioxide.

Achieving net zero means that our total annual GHG emissions would be equal to, or less than, the emissions it can actively remove from the environment. Thus, through a combination of emissions reduction and emissions removal measures, net zero is achieved over a given timeframe.

Setting Science based targets

Science-based reduction targets for GHG emissions need to be in line with the latest climate science to meet the goals of the Paris Agreement. The Agreement limits global warming to less than a 2°C increase on preindustrial levels, but there is common agreement that it is better to aim for limiting warming to below 1.5°C.

The Science-based Targets Initiative (SBTi) recently launched the world's first Corporate Net Zero Standard for corporate net zero target setting, in line with climate science to limit warming to below a rise of 1.5°C. The SBTi advises that most companies will require deep decarbonisation of 90-95% to reach net zero under the Standard.



WE ARE COMMITTED TO ALIGNING OUR NET ZERO STRATEGY WITH THE SBTi NET ZERO STANDARD, FOCUSING ON:

Accelerated, extensive emission cuts*:* Accelerated and extensive reduction in emissions across Scopes 1 and 2, including the mapping of all relevant categories of Scope 3, thus covering our entire value chain emissions.

Short-term and long-term goals: Setting short-term and long-term science-based targets, making rapid emissions cuts in the next five to ten years, and by 2050 producing close to zero emissions and neutralising any residual emissions that are not possible to eliminate by credible offsetting or 'carbon removal' measures.

Achieving net zero on Scope 1 and 2 emissions: Once Scope 1 and 2 emissions have been decarbonised, all efforts will go into reducing Scope 3 emissions throughout the entire value chain. Efforts will go into research, training and implementation of net zero projects for Scope 3.

Go beyond the value chain: The SBTi recommends that companies go further by making investments outside their science-based targets to help mitigate climate change elsewhere. Companies should follow the mitigation hierarchy, committing to reduce their value chain emissions before investing to mitigate emissions outside those value chains.

Net Zero Target:

We have been developing our net-zero carbon strategy since 2022 for the decarbonisation of our entire operation as soon as we have completed the final stage of the Carbon Footprinting exercise. The goals and targets will be based on Science Based Targets and initiatives and in line with selected Sustainable Development Goals (SDGs).

In order to align with the Paris Climate Agreement to limit global warming to a 1.5°C increase on pre-industrial levels, we are setting Science-Based Targets (SBT) of a 100% reduction in Scope 1 & 2 emissions by 2035 and a 90% reduction in Scope 3 by 2040. The proceeding years to 2050 will see a further commitment to a 100% reduction.
With an increasing emphasis on sustainable business operations set against increasingly stringent regulations on the horizon, we have developed a net zero strategy and Implementation Plan. This will ensure the future sustainability of the business, add further value for clients, and help deliver the lasting change our planet and society need.

This document lays out our high-level carbon reduction plan, outlines our short and long-term targets, and explains how they will be achieved.



Establishing the Baseline

Making meaningful comparisons of emissions data over time is an integral part of any GHG report that aims to be credible, transparent and useful. Every company will need to undergo a benchmarking assessment. This will provide a baseline to work from to provide accurate data that will be used in a range of tools to effectively monitor energy consumption.

The agreed baseline reporting year for establishing the company's greenhouse gas emissions footprint was the 2019 production year.

The GHG Protocol is the most widely used international accounting tool for government and business leaders to understand, quantify, and manage greenhouse gas emissions.

One needs to identify which activities are responsible for GHG emissions being released into the atmosphere. The most widely accepted approach is to identify and categorise emissions-releasing activities into three groups (known as scopes).

The three scopes are:

Scope 1 (Direct emissions): Activities owned or controlled by your organisation that release emissions straight into the atmosphere. They are direct emissions. Examples of scope 1 emissions include emissions from combustion in owned or controlled boilers, furnaces, vehicle emissions from chemical production in owned or controlled process equipment.

Scope 2 (Energy indirect): Emissions being released into the atmosphere associated with your consumption of purchased electricity, heat, steam and cooling. These are indirect emissions that are a consequence of your organisation's activities but which occur at sources you do not own or control.

Scope 3 (Other indirect): Emissions that are a consequence of your actions, which occur at sources which you do not own or control and which are not classed as scope 2 emissions. Examples of scope 3 emissions are business travel by means not owned or controlled by your organisation, waste disposal, or purchased materials or fuels.

A message from Martin Dudley, Director of Thomas Dudley Group

Thomas Dudley is committed to greener manufacturing. This commitment is underlined by our Envirofacturing initiative. This initiative ensures we are doing all we can to reduce our impact on the environment through all our processes. Through the maintenance of this initiative, we have attained our ISO 14001 accreditation, recognising the standard of our environmental management systems. We employ best practices and lean manufacturing principles throughout the organisation to maximise manufacturing efficiency, including shredding wastepaper on site and utilising it for packaging. Our foundry helps convert scrap iron into value added products to provide an in-house recycling service.

We are currently investing in new technologies and plant equipment that are designed to reduce our overall emissions and energy consumption, and we are keeping all of our manufacturing operations within the UK, avoiding the environmental cost and carbon footprint of regular international transportation.

We are aware that some of our clients are equally keen to do their part to reduce their own impact on the planet, so we ensure that our water saving bathroom products are easily identifiable with Bathroom Manufacturers Association Water Efficient Product branding and clearly labelled with Water Technology List.



Who we are

Thomas Dudley Group Ltd is a group of SME manufacturing businesses based in Dudley. Currently, we have one foundry, two plastic manufacturing businesses (including injection moulding, blow moulding and extrusion), a zinc diecasting business and a water-fittings assembly business.

We have been manufacturing in the UK since the company's inception in 1920. Having previously helped to develop and manage foundries across the UK, Mr Thomas Dudley set up his own business. By the 1950s, the foundry was producing a wide range of products including cast iron WC cisterns. However, following a number of harsh winters, they began manufacturing frost-resistant, heavy-duty rubber cisterns. This move paved the way for the plastics division, which started to manufacture plastic injection moulded models shortly afterwards. Today, Thomas Dudley is a hugely successful manufacturing business, employing around 500 people and generating an annual turnover exceeding £50 million.

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Thomas Dudley Group's journey to net-zero is one that is planned to be achieved by 2040, and we have begun to make drastic changes to our company and it's policies.

THOMAS TD
DUDLEY



Our Mission

To lead the way in managing a sustainable group, ensuring all companies under our management are doing all they can to reduce their impact on the environment.



Our Vision

Thomas Dudley Group has long held the vision of an efficient and sustainable future. We aim to further increase our levels of sustainability to reach our net zero goal.

It is our business mission to be there to encourage and support low and zero carbon strategies within the company, guiding us to our Zero Carbon Goal.



Our Values

We want to maintain a value of providing sustainable solutions for all our clients, no matter the project.

Our Business' Ethical and Moral Responsibility



Business ethics concerns every step of our decarbonisation journey. In order to see a change in the manufacturing world, we must take active steps to reduce our impact without compromising our ethical values.

There are 12 ethical principles that we integrate into our business: Honesty, Fairness, Leadership, Integrity, Compassion, Respect, Responsibility, Loyalty, Law-abiding, Transparency, and Environmental Concerns

Maintaining human rights within our company is one of the key ethical pillars on which we at Thomas Dudley build our policies. We do all we can to ensure we are never in breach of this and ensure our suppliers are following similar policies and practices. Holding our supply line responsible for maintaining their own ethical and moral responsibility ensures that the materials we receive are ethically and responsibly sourced.



Thomas Dudley maintains a firm belief that everyone deserves the right to be treated equally and fairly. In our recruitment process, we ensure we follow all guidelines and regulations set by The Equal Opportunities and Equality Act, continued throughout employment, with equal opportunities and fair pay being given to all our employees.

Taking a firm stance against climate change and meeting the targets set by both government and industry standards are paramount in our operations. Financial investment in sustainable technologies is at the forefront of our future proposed business development, and we are taking steps to identify and reduce non-productive energy consumption where possible.

Integration of our Energy Policy

We are currently in the process of developing our energy policy to be integrated into our business model.

We understand that one of the key ways to reduce our impact is to utilise energy both efficiently and responsibly and make a public statement on our stance to decarbonise our operations through energy efficiency.

THOMAS DUDLEY TD

Energy Policy

Thomas Dudley is committed to reducing the impact of our operations as much as reasonably practical to protect the environment, for now and the future.

We recognise that this involves reducing our carbon footprint by lowering our energy consumption.

Thomas Dudley commits to:

- Comply with all relevant energy legislation and carbon abatement regulations
- Periodically review our operations to understand changes in our energy consumption
- Identify new opportunities for continual improvement regarding our energy consumption and carbon footprint
- Implementing energy efficient technologies wherever practical
- Incorporate sustainability in new product designs
- Encouraging employee awareness of energy efficient practices through education and training
- Incorporating and promoting energy efficiency within decision making
- Incorporate renewable technologies in our energy supplies mix
- Set energy efficiency improvement objectives and carbon reduction targets including objectives to reduce supply chain impact and improve performance
- Introduce operational controls, regularly audited, reviewed and updated
- Updating and effectively communicating this Energy Policy at all levels of the organisation
- Make this policy available to interested parties in the public domain

Signed: .....

Martin Dudley

MANAGING DIRECTOR

Thomas Dudley

Date: 16/11/2023



Taking Action Against Climate Change

Policy and Strategy

Integrating a Net-Zero policy into our company requires multiple steps. The first is our aim to adjust our own company policies to incorporate new net-zero projects better.

The following pages cover how our policies and strategies have been adjusted or are in the process of being adjusted so that we can continue our goals to decarbonise our operations.



Summary	Status	Description
Assess and review all policies currently in place, aligning them with a Net Zero Plan	In progress	While ensuring our impact on the environment is as small as possible, new technologies and research mean that our policies are always available to be updated. With recent guidance, we have begun to make our supply change aware of the need to reduce our impact on the environment, and this philosophy now plays a key part in our decisions
Introducing UN Sustainable Development Goals into our core company policies	In progress	The UN Sustainable Development Goals (SDG) form our guiding principles and sit at the heart of our business development strategy. Our Environmental, Social and Governance roadmap is in the final stages of development. Due to the nature of our business, the management team has developed an ambitious sustainability strategy for the whole of our value chain, which adopts all the UN Sustainable Development Goals.
Implementation of staff training towards net zero policy both at work and home	In progress	We believe that a holistic approach to reducing the company's impacts on the environment is key to achieving Net Zero. Some of our staff are undergoing Net Zero Awareness training to help make more environmentally conscious decisions. This education is planned to be extended to all staff to help increase awareness and accountability. A case study done by the Carbon Trust detailed that some companies could expect to save between 10%-20% of energy consumption through staff education.
Supporting Staff to make 'Greener' choices	In progress	Providing information and support to staff to utilise in their travel to work can help reduce our scope 3 emissions reducing our impact on the environment. Future plans involve giving staff advice on how they can reduce their energy consumption and GHG emissions that have an impact on the environment at home.
Committing to Science Based Targets set by Pro Enviro	In progress	Worked alongside Pro Enviro has played a significant part in helping us reduce our energy consumption, costs and carbon emissions. Through process optimisation and energy efficiency reviews we have started to see a reduction in carbon emissions.

Summary	Status	Description
Developing and moving towards embedding ISO 50001	In progress	We aim to integrate this international quality standard into our company profile for organisations committed to addressing their impact, conserving resources and improving the bottom line through efficient energy management.
Global standards for environmental management	In progress	Due to the nature of our business, we have implemented a “global minimum” we expect from all our sites to ensure that our impact on the environment is as minimal as possible. We expect this minimum to be met throughout our organisation.
Waste Management through sustainable disposal and recycling	In progress	Division of waste streams into more identifiable sectors helps us ensure that all waste is correctly disposed of if required or recycled where possible. This also allows for accurate recording of waste stream sizes and where action can be taken to reduce the waste in larger streams.
Developing and implementing ISO 14001 Accreditation	Complete	The first major step for Thomas Dudley to show our clients our commitment to sustainability was embedding ISO 14001 into our environmental management systems.
Implementation of a periodic maintenance repair plan for compressors.	Complete	To help identify air leaks as soon as possible, a plan is in hand to conduct regular checks and maintenance on our compressor systems to identify leaks as soon as possible.

Summary	Status	Description
Development and implementation of the Envirofacturing Initiative	Complete	This initiative ensures we are doing all we can to reduce our impact on the environment through all our processes.
Supporting the implementation of the Repowering the Black Country Project	Complete	Martin Dudley is the chair of the Industrial Advisory Board (IAB) of the Repowering The Black Country (RtBC) Project. Under the guidance of the IAB, the RtBC project aims to provide the Black Country with its first Net-Zero Carbon hub. Many of the lessons we are learning through this project will be implemented into our strategies to help decarbonise Thomas Dudley.
Printing on recycled paper and recycling wastepaper	Complete	Our catalogues are printed on recycled paper by local printers, and all our waste paper is shredded on site, and then we reuse it for packing purposes.
Recycling and reusing scrap iron	Complete	Our foundry converts scrap iron into value added products, providing the ultimate recycling service.
Promoting efficient products	Complete	We have the opportunity to manufacture incredible, water efficient bathroom products, which we strongly promote through social media and to clients. To enable these to be easily identified, our packaging and literature are clearly labelled with Water Technology List and Bathroom Manufacturers Association Water Efficient Product branding.



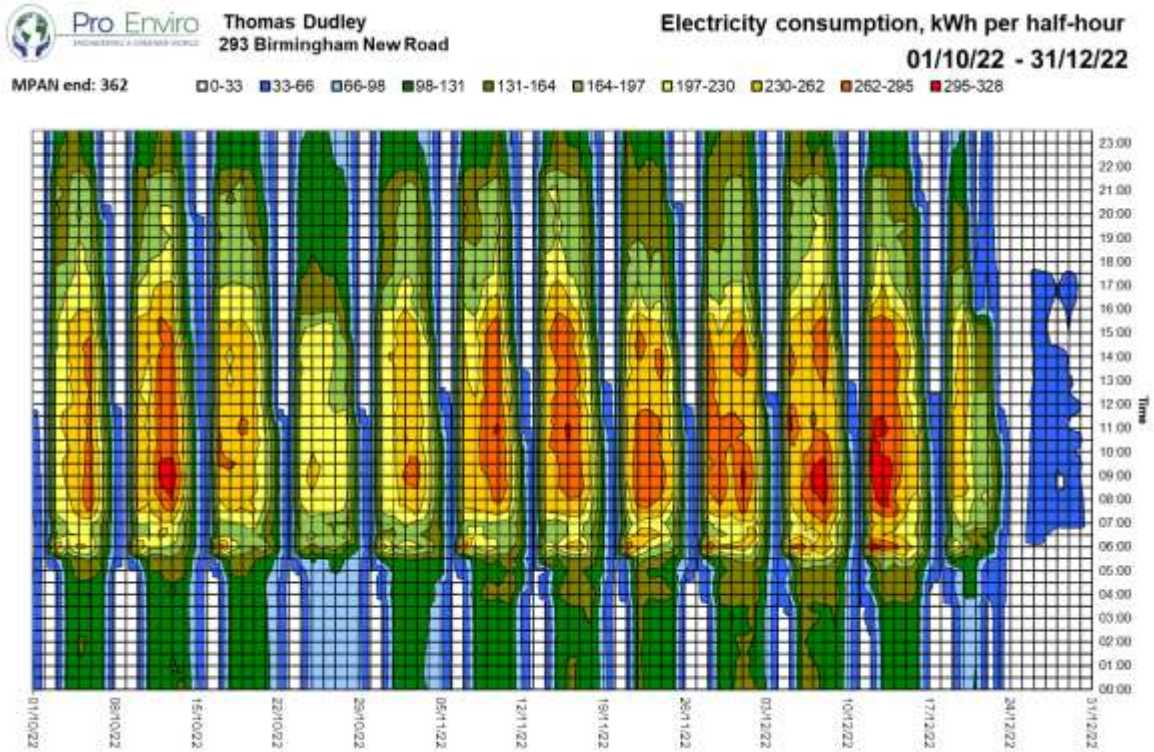
Scope 1 and 2 Emission Reductions

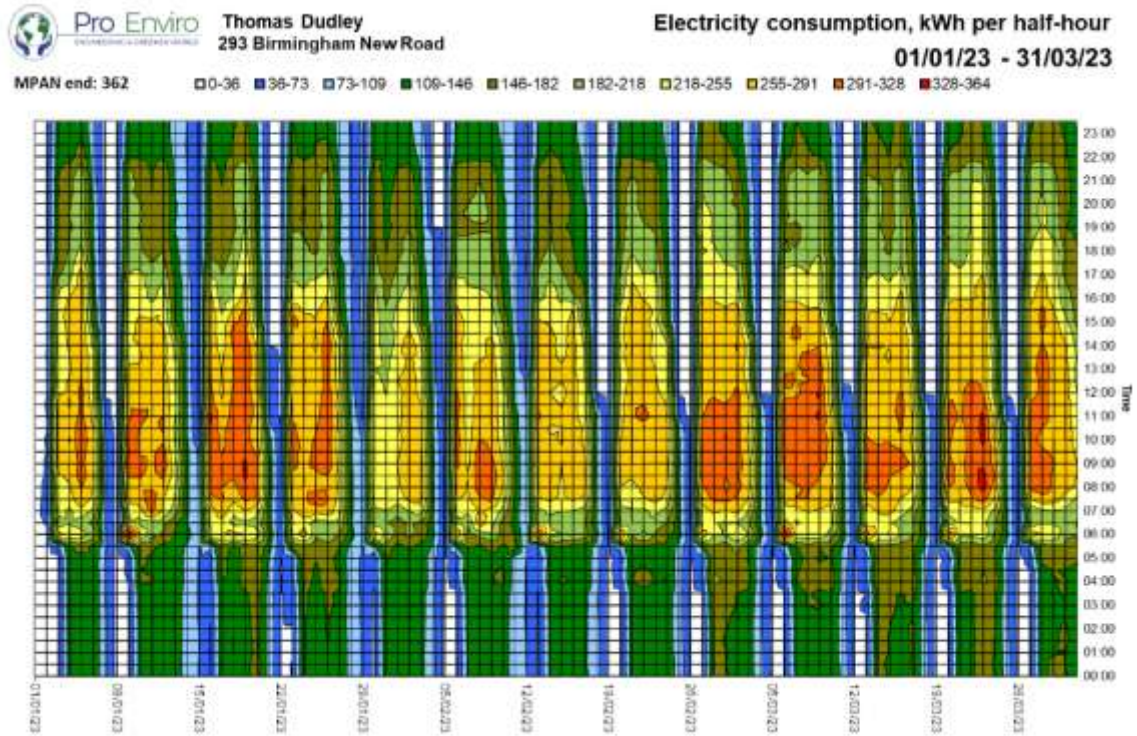
Scope 1 and 2 emissions cover the direct and indirect emissions of our company assets and are the main focus of our GHG emissions reduction targets at this moment in time.

Our current target is set for 2030 to meet and exceed industry standards to decarbonise Scopes 1 and 2.

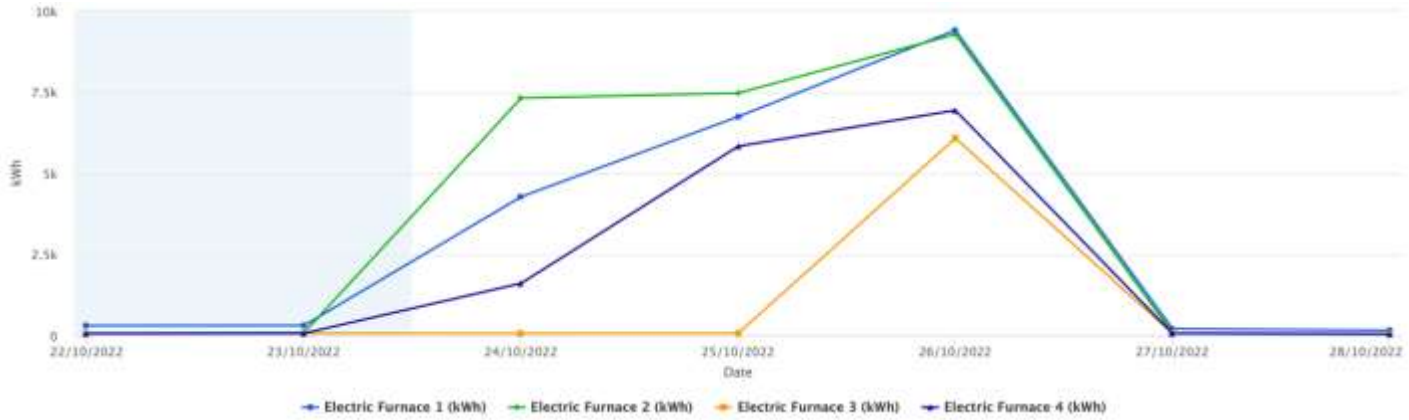
We will be continuing our journey to decarbonise these areas.

Summary	Status	Description
Macro level analysis of energy consumption using Envirotracks.	Complete	To understand our electricity carbon footprint and where our emissions occur at their greatest, we have used half-hourly data to develop a macro-level analysis through three-dimensional graphs called Envirotracks.





Baseline year for monitoring CO_2 emissions established	In progress	To ensure that our carbon emission targets, and low carbon projects are Science-based, we have established 2019 as our baseline year, due to the large amount of data we have available for all aspects of our company. This allows us to develop accurate, science-based carbon accounting targets and effectively track our carbon emission reductions in both scope 1 and 2.

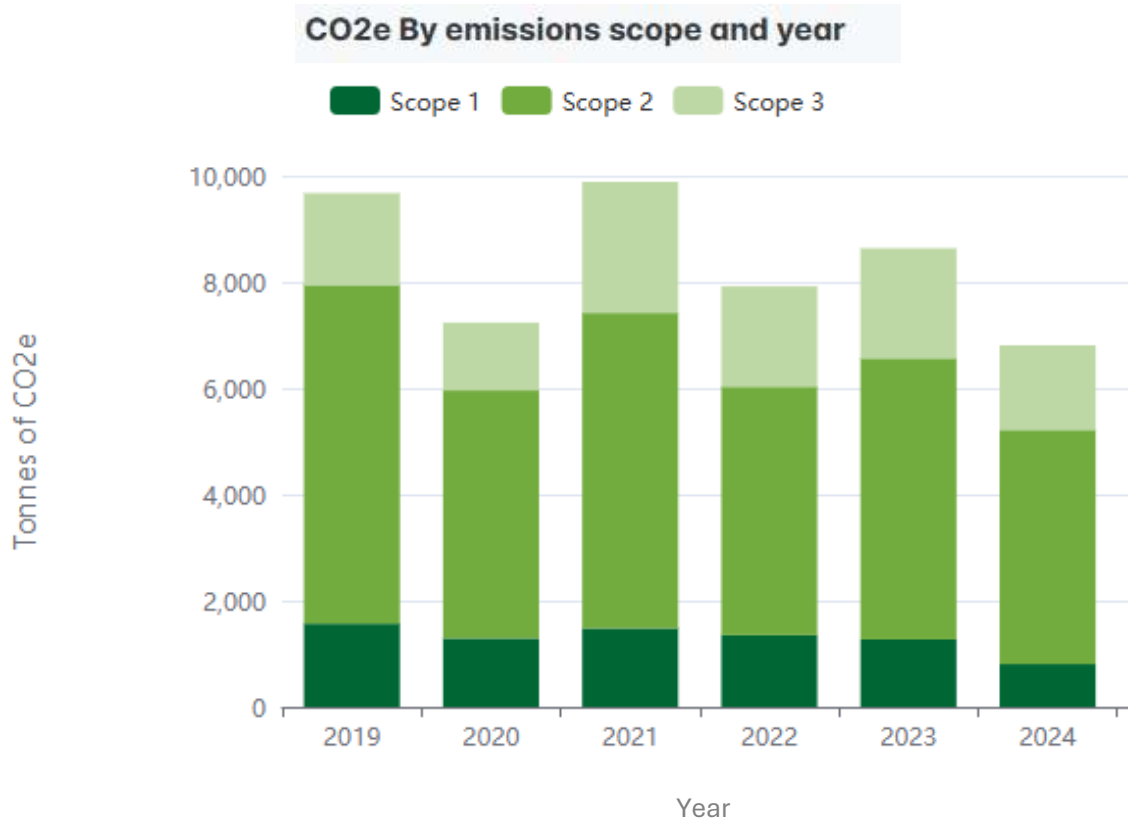
Summary	Status	Description
Installation of Automated Monitoring and Targeting (aM&T) systems	Complete	Throughout the operation, aM&T systems have been implemented to provide live feedback of energy consumed by each item of plant and allow for targeted analysis of overall energy consumption. This can help us detect if non-productive energy is being used and allow for reduced Scope 1 and 2 emissions. 
Installation of inhouse energy generation via Solar PV	In progress	Due to the large amount of energy used to maintain our facilities, the installation of in-house energy generation will reduce our overall non-renewable energy consumption and reliance on the grid. We have commissioned the installation of a 1064.54 kWp system that will provide us with green energy.
Lighting management for all our sites	In progress	We will install energy-efficient lights throughout all of our sites, which are controlled by motion sensors and timers to reduce non-productive energy consumption.

Summary	Status	Description
Energy Efficiency Review of both manufacturing operations at Birmingham New Road and Duport, with the objective of identifying opportunities to reduce energy consumption and GHG emissions	Complete	With the assistance of Pro Enviro, our expert energy efficiency consultants, site reviews have been carried out to identify areas of poor efficiency and make rapid improvements. We closely monitor our macro energy consumption by using Envirotrack energy foot printing software. We can now closely monitor our energy consumption, costs and Greenhouse Gas emissions on an ongoing basis.
Energy Efficiency Review of both manufacturing operations at Birmingham New Road and Duport, with the objective of identifying opportunities to reduce energy consumption and GHG emissions	Complete	With the assistance of Pro Enviro, our expert energy efficiency consultants, site reviews have been carried out to identify areas of poor efficiency and make rapid improvements. We closely monitor our macro energy consumption by using Envirotrack energy foot printing software. We can now closely monitor our energy consumption, costs and Greenhouse Gas emissions on an ongoing basis.
Heating/Temperature controls on all our sites	In progress	To help maintain building temperatures throughout the year, without causing great impact on the environment, we will be investing in renewable heating technologies for all our locations.
Installation of Variable Speed Drive Compressors	In Progress	VSD compressors match the air demand of the site with optimum motor capacity to ensure compressed air generation with minimum electricity consumption. A feasibility study will take place to ascertain the viability of installing modern VSD compressors within our manufacturing operations.
Utilisation of carbon accounting software tool, CFAR to accurately measure Scope 1 and 2 Emissions.	In progress	Tracking our Scope 1 and 2 emissions can help us target what areas require the largest change and precisely where science-based targets can be developed to get the results we desire. Recording our Scope 1 and 2 using Pro Enviro's Carbon accounting and reporting software has enabled us to accurately monitor our performance against pre-set Scopes 1 and 2 targets.

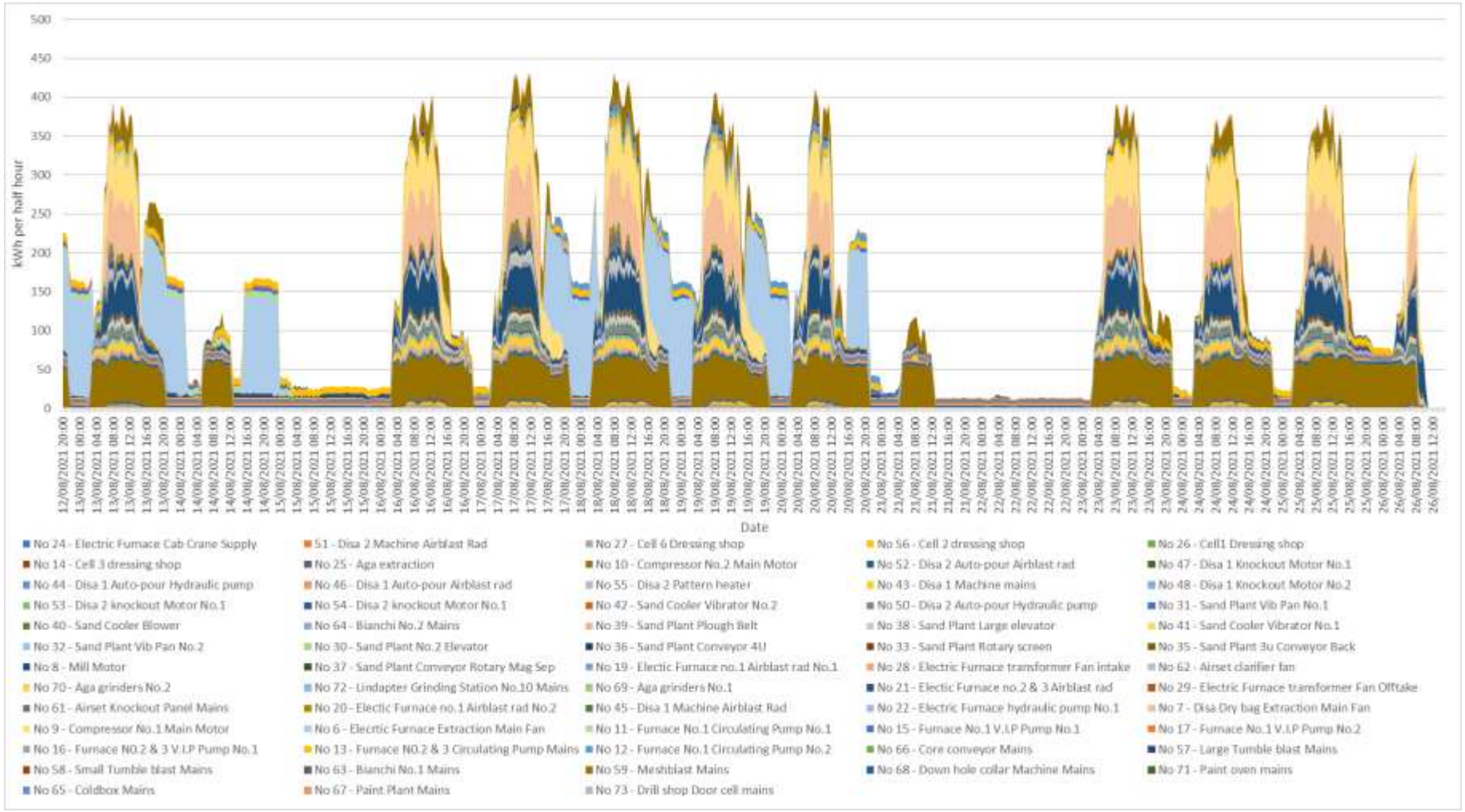
Summary	Status	Description
Installation of Destratification fans	In Progress	A feasibility study will be undertaken to ascertain the effectiveness of destratification fans within our storage areas to reduce the current load factor on our heaters. It is assumed that this could reduce our consumption costs by 20%.
Repair of Core Drying Oven	Complete	Due to the age and use of the core drying oven, there has been minor wear along the seals, leading to a leak of hot air. This has resulted in a higher load factor to compensate for this. Future aims are to replace the insulation on the door of the Core Drying oven and repairing the seal.
Repair Compressor Air Leaks	Complete	It was identified that some of our compressors located within our manufacturing operations have small amounts of leaks, which are more prominent near our CNC machines. We plan on repairing these leaks as soon as possible to reduce the amount of non-productive energy produced.
Implementation of a Standard Operating Procedure for Reserve pot	In Progress	Our Reserve Pot has always been kept at the required temperature for melts in preparation, but we will look at implementation of a SOP to keep its operation in line with the melting procedures.

Summary	Status	Description
Utilisation carbon accounting software tool, CFAR to accurately measure Scope 1 and 2 Emissions.	Complete	Tracking our Scope 1 and 2 emissions can help us target what areas require the largest change and precisely where science-based targets can be developed to get the results we desire. Recording our Scope 1 and 2 using Pro Enviro's Carbon accounting and reporting software has enabled us to accurately monitor our performance against pre-set Scopes 1 and 2 targets

Duport | **295 Birmingham New Road** | **293 Birmingham New Road** | **Coneygre Industrial Estate** | **Rugby Plastics**



Summary	Status	Description
Micro-metering of energy-intensive plant	Complete	In addition to macro analysis of our energy consumption at each site, micro metering is paramount to identifying the total energy draw of each item of plant. It allows energy efficiency projects to be developed and implemented to reduce energy consumption and carbon emissions.



Summary	Status	Description
Complete recommendations from Energy Assessment Reports	In Progress	Comprehensive energy assessments were conducted across all Thomas Dudley sites. These evaluations identified various actionable opportunities to improve energy efficiency and reduce carbon emissions. Site-specific recommendations have been developed, outlining practical and impactful measures each location can implement to achieve measurable energy consumption savings and carbon footprint savings. Examples of these recommendations and potential savings can be seen below. For further details on these recommendations, please read these reports. Thomas Dudley Plastics is already replacing the injection moulders, and at Duport Foundry, a 1,045kWp solar PV in-house generation is being installed.

Thomas Dudley Ltd – Duport Foundry

Recommendation	Estimated Annual energy saving (kWh/ yr)	Estimated Annual carbon saving (tCO2e/y)
Installation of Modern LED Fittings	6,547	1.47
Installation of a Slag Crusher	540,000	121.49
Replacement of Large Motors	200,227	45.05
Installation of Solar PV Array	560,703	126.15
Installation of a Lid for Melt Pot Preheating	73,728	13.46
Total	**1,381,205**	**307.62**



Solar array

Thomas Dudley Ltd – Plastics

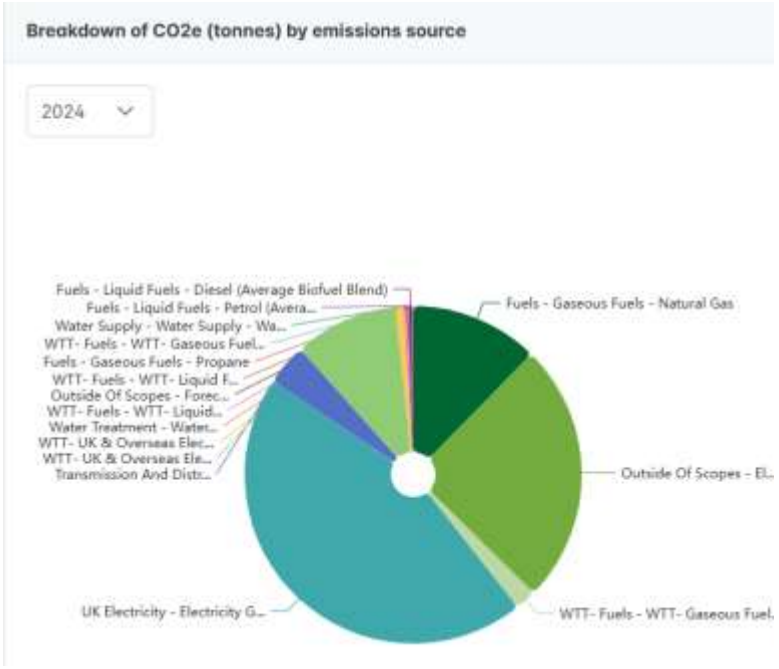
Recommendation	Estimated Annual energy saving (kWh/ yr)	Estimated Annual carbon saving (tCO_2e/yr)
Identify and repair compressed air leaks	74,250	16.70
Upgrade the existing workshop heating system	386,243	70.65
Replace remaining inefficient fluorescent lighting	49,500	11.40
Installation of a M&T system	93,268	20.28
Replace injection moulding machines	165,000	37.12
Total	**778,261**	**156.15**

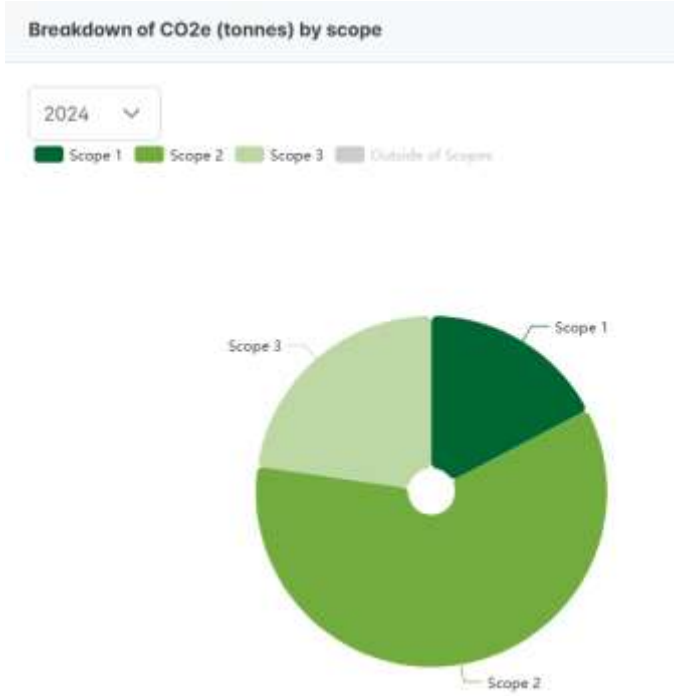
Scope 3 Emission Reductions

Scope 3 emissions cover GHG generated outside of the company's direct assets. This can include employee transportation, upstream and downstream supply chain processes, and waste. We aim to inform our suppliers and employees of our decarbonisation goals and help reduce our Scope 3 emissions through the projects implemented over the next decade.



Summary	Status	Description
Carbon Emissions from Supply Chain mapped	In progress	Understanding and compiling our Scope 3 emissions from our supply chain can allow for a rapid implementation of science-based targets. It can also help identify which of our supply chain partners are producing excessive emissions, and we can identify how we can provide support to help them reduce their carbon emissions.
Scope 3 Emissions collection and calculations using CFAR (Carbon Footprinting, Accounting and Reporting) Tool.	In progress	With the assistance of Pro Enviro, we will be able to record and target our scope 3 emissions accurately. The collection of scope 3 information will allow us to compile a detailed and accurate data point that helps to develop targeted science-based projects.
Communication with supply chain to raise awareness on reporting their Scope 1 and 2 Emissions for services provided, and provide a reporting process	In progress	Raising the awareness of our supply chain can make it easier to record our scope 3 and helps them understand how to record their emissions. This contributes to our scope 3 overall emissions recording. It can also help other companies develop their own carbon reduction strategies rand reduce their GHG emissions and impact on the environment.







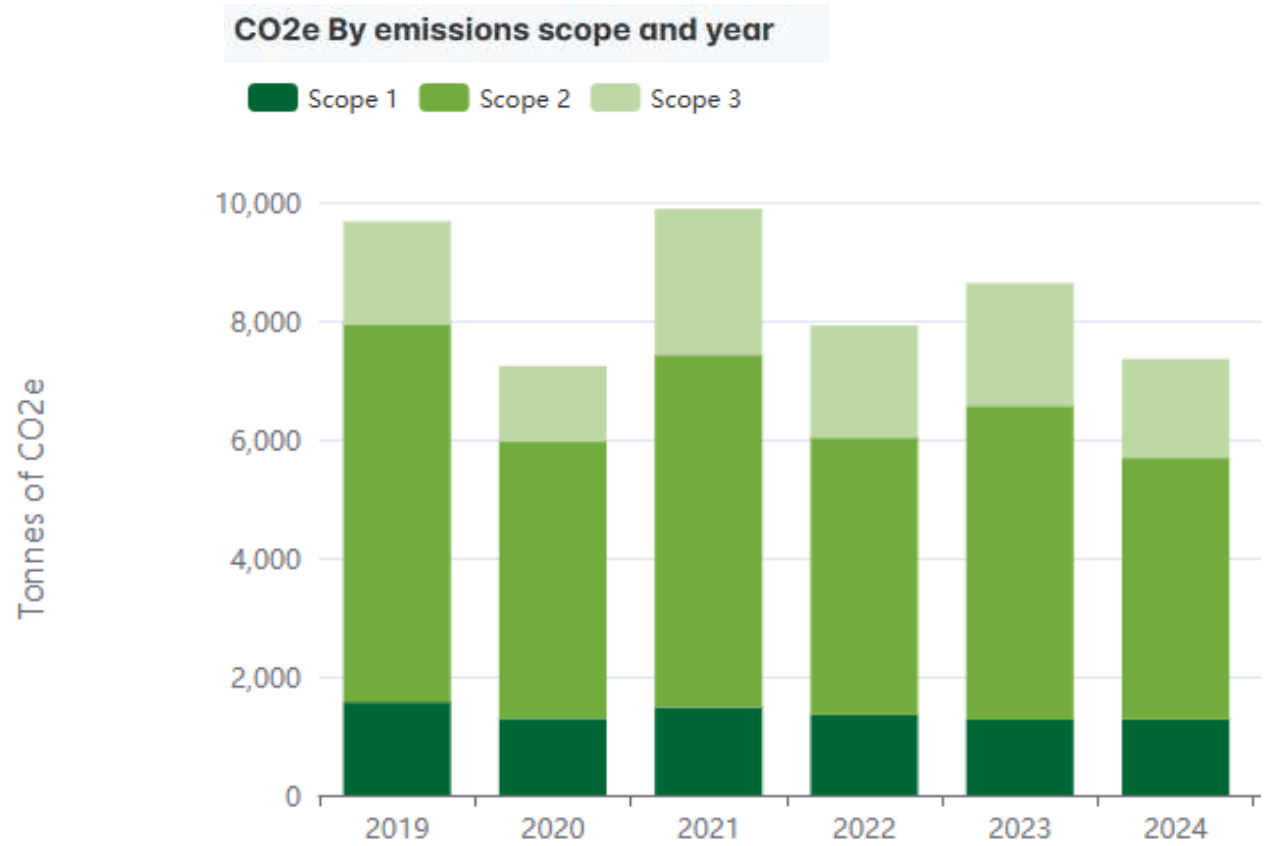
Reporting and Data

Approaching and developing zero carbon goals requires a factual and science-based process that utilises available data to help make the most efficient decarbonisation decision. We aim to maximise our carbon reductions through accurate data collection, collation and analysis and regular external reporting.

Summary	Status	Description
Reporting Framework Scoped	In progress	With our reporting framework scoped, we can understand the extent to which we will be reporting.
Scope 1 and 2 scoped and quantified	In progress	With an understanding of our scope 1 and 2 GHG emissions, targeting projects on reducing our overall emissions can be developed with accuracy.
Zero Carbon Strategy developed for each site to report consumption data	In progress	With the assistance of Pro Enviro, a Zero Carbon Strategy has been developed and decarbonisation projects have been implemented at our Stourport site to assist with data capture. This is with aim of further reduce our carbon emissions to zero by 2035 in Scopes 1 and 2. We aim to complete the carbon accounting and reporting systems at Scope 3 in 2023-2024 and be able to set net-zero carbon strategy at Scope 3. We will then look at expanding this strategy to the rest of our operations.
Tracking and reporting emissions on an annual basis	In progress	Regular updates and annual reporting on our emissions allows for monitoring of our successes against pre-set targets and tracking of the success or failure of individual projects undertaken in reducing our GHG emissions against our pre-set targets.

Summary	Status	Description
Establishing a baseline year	Complete	Establishing and developing a GHG emissions baseline year has helped us identify the scale of our endeavour required to decarbonise our activities. Our baseline year is 2019, and we saw a 3.% reduction in carbon emissions in 2023 compared to the GHG emissions in this baseline year. – Scope 3 has not yet been mapped completely so figures are not available. The Scope 3 emissions recorded are from the Scope 1 & 2 activities.

Duport | 295 Birmingham New Road | 293 Birmingham New Road | Coneygre Industrial Estate | Rugby Plastics

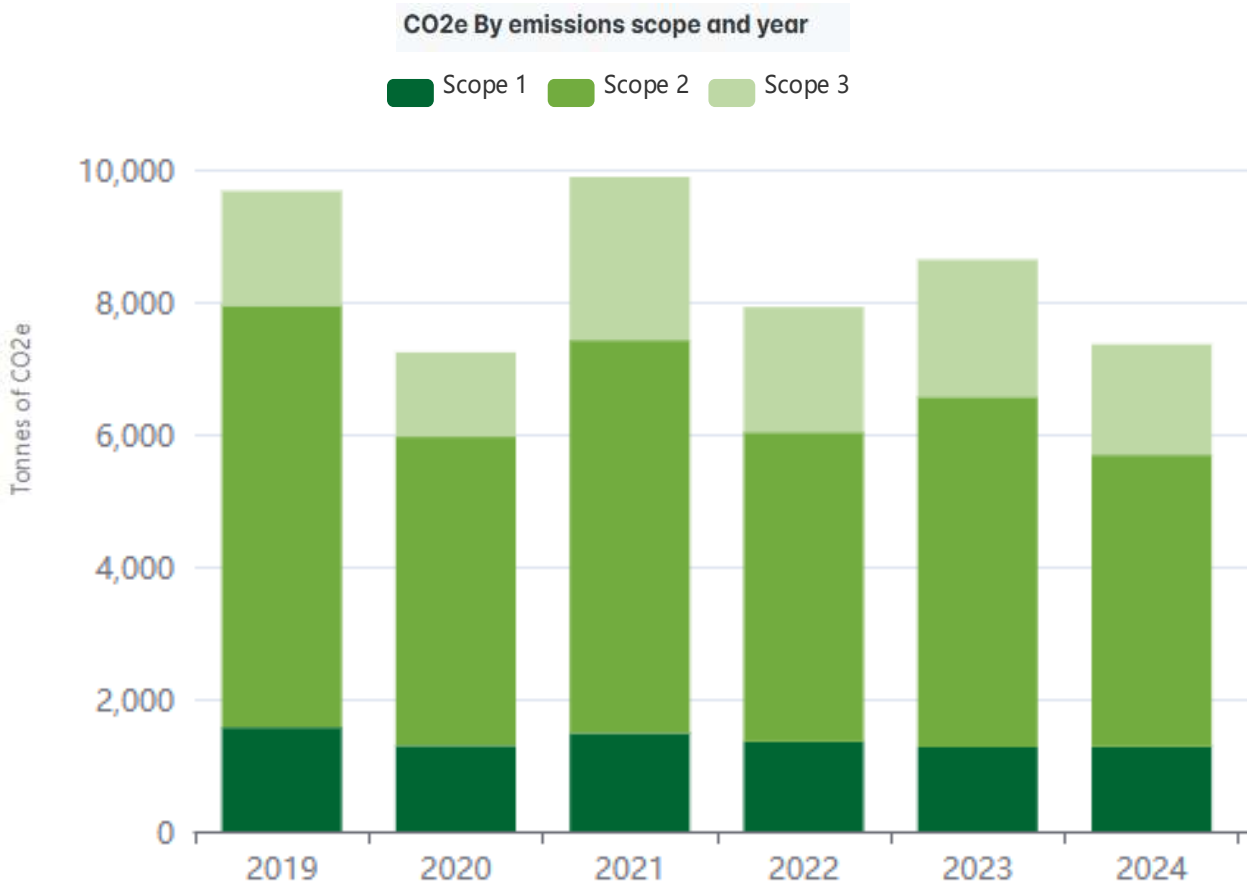


Current GHG Footprint

The results of the energy audit for Scope 1 and 2 emissions have been used to generate our baseline emissions footprint for 2019. Using the Carbon Foot printing Accounting and Reporting (CFAR) tool from Pro Enviro, we have calculated our emissions over the last 4 years (2019-2022) for Scope 1 & 2 at Duport, 293 and 295 Birmingham New Road and Coneygre Industrial Estate.

We are in the process of collecting out Scope 3 emissions and have already calculated the Scope 3 emissions for our Scope 1 and 2 activities. We plan to expand the collection of Scope 3 data to encompass 80% of our Scope 3 emissions.

Duport | 295 Birmingham New Road | 293 Birmingham New Road | Coneygre Industrial Estate | Rugby Plastics



	Tonnes of CO2e			
	Scope 1	**Scope 2**	**Scope 3**	**Total**
2019	1,569.48	6,374.17	1,729.58	9,673.23
2020	1,292.04	4,666.67	1,275.78	7,234.49
2021	1,481.26	5,936.07	2,466.95	9,884.28
2022	1,350.17	4,678.74	1,888.95	7,917.86
2023	1,269.98	5,294.23	2,071.02	8,635.23
2024	1,274.69	4,411.28	1,670.21	7,356.18
Decrease from 2019	**18.78%**	**30.79%**	**3.43%**	

This includes emissions from:

Scope 1:

- Fuels, Gaseous fuels, Natural Gas
- Gaseous fuels – Propane
- Liquid fuels - Diesel (average bio fuel Blend)
- Liquid fuels - Petrol (average biofuel blend)

Scope 2:

- UK electricity, Electricity generated, Electricity: UK

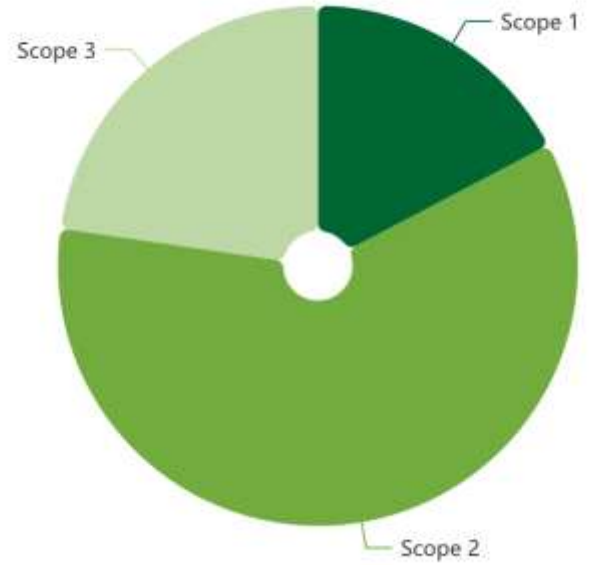
Scope 3:

- Transmission and distribution - T&D- UK electricity - Electricity: UK
- WTT- UK & overseas elec - WTT- UK electricity (generation) - Electricity: UK
- WTT- UK & overseas elec - WTT- UK electricity (T&D) - Electricity: UK
- Water supply
- Water treatment
- WTT- fuels - WTT- gaseous fuels - Natural gas
- WTT- fuels - WTT- gaseous fuels – Propane
- WTT- fuels - WTT- liquid fuels - Diesel (average biofuel blend)
- WTT- fuels - WTT- liquid fuels - Petrol (average biofuel blend)

Breakdown of CO2e (tonnes) by scope

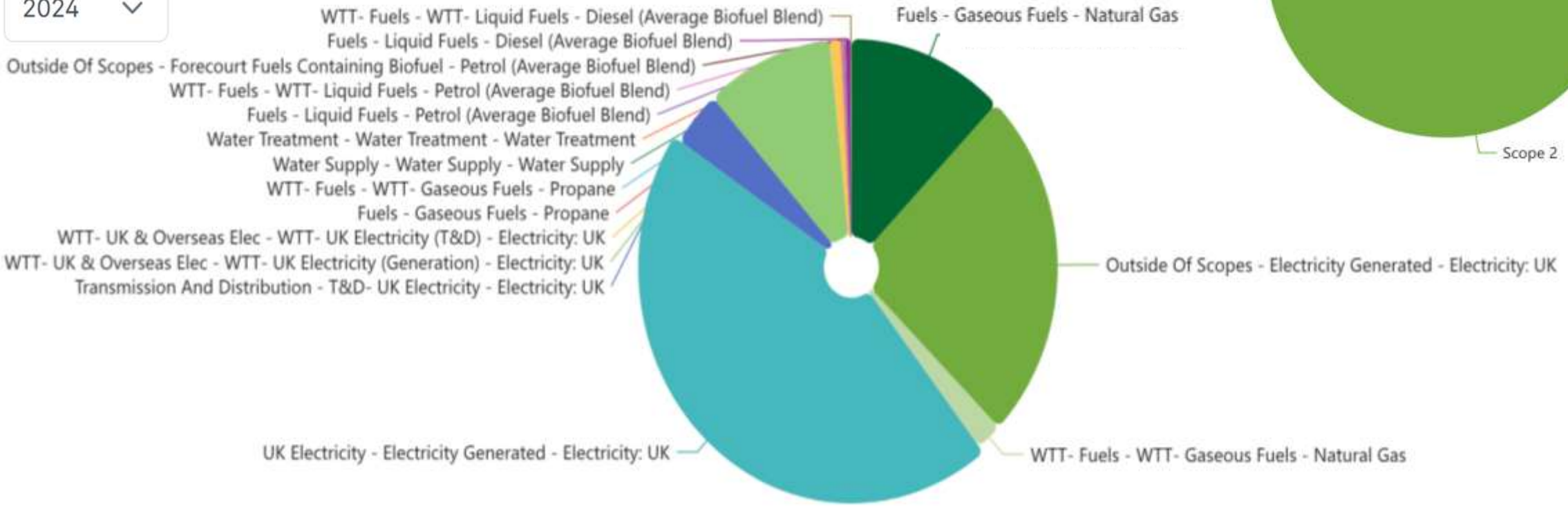
2024

Scope 1 Scope 2 Scope 3

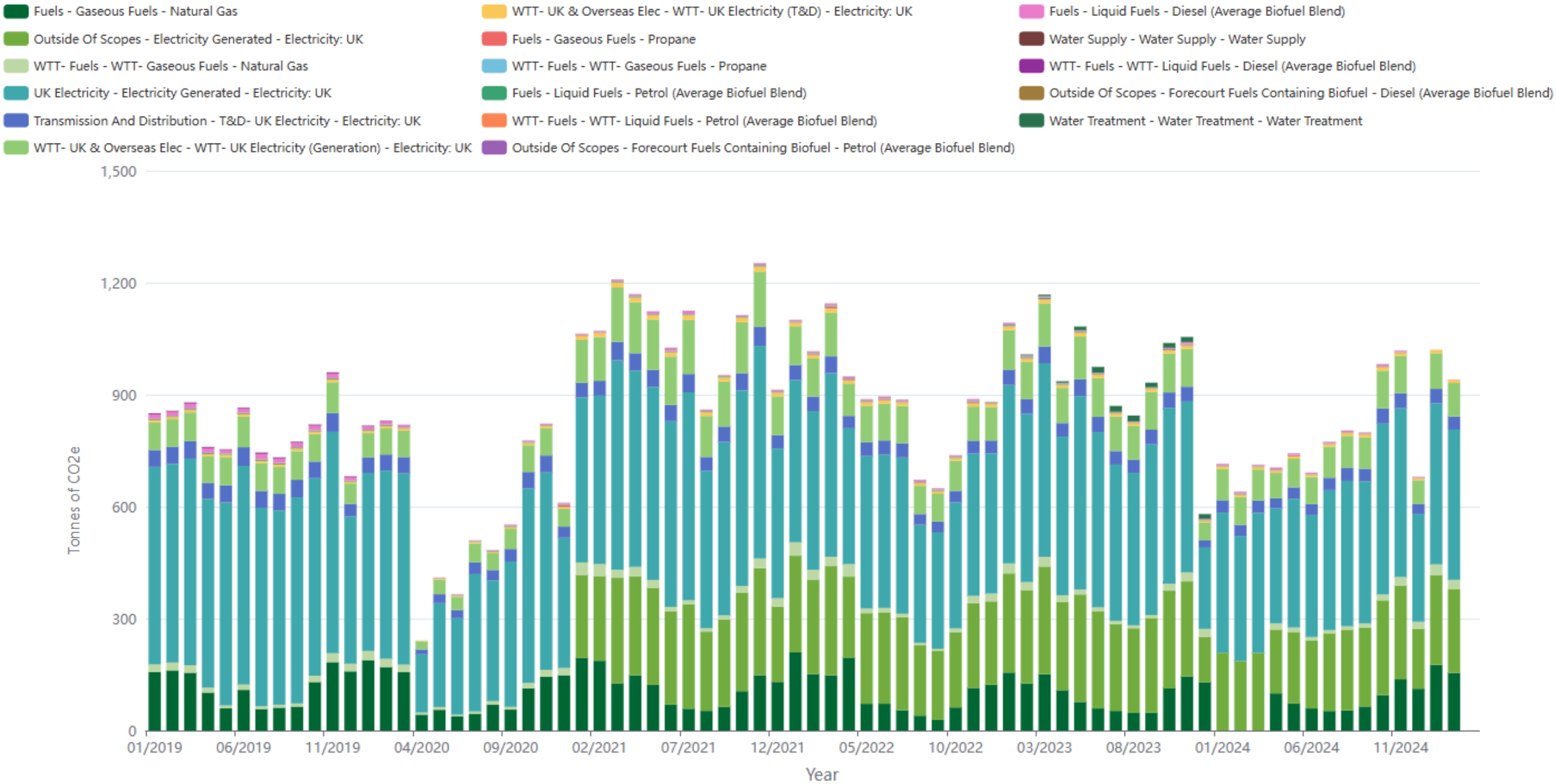


Breakdown of CO2e (tonnes) by emissions source

2024



CO2e (tonnes) by emissions source



Emissions Target



Data Gaps

Rugby Plastics' Scope 1 and 2 data has been updated and included.
293 Birmingham Road - Prior to March 2021, there was no separate consumption data.
All were involved under 295. From April 2021 to the present, they have been recharged for electricity and can provide the data.
There is missing electricity data for 293 Birmingham New Road, missing from 01/01/2019 - 31/03/2021.

Scope 3 is a lengthy process, and we have only just begun collecting the data required to map it completely. We have collated our Scope 3 data for all the captured Scope 1 and 2 data. As well as the collection of water use and treatment.

Emission Reduction Plan

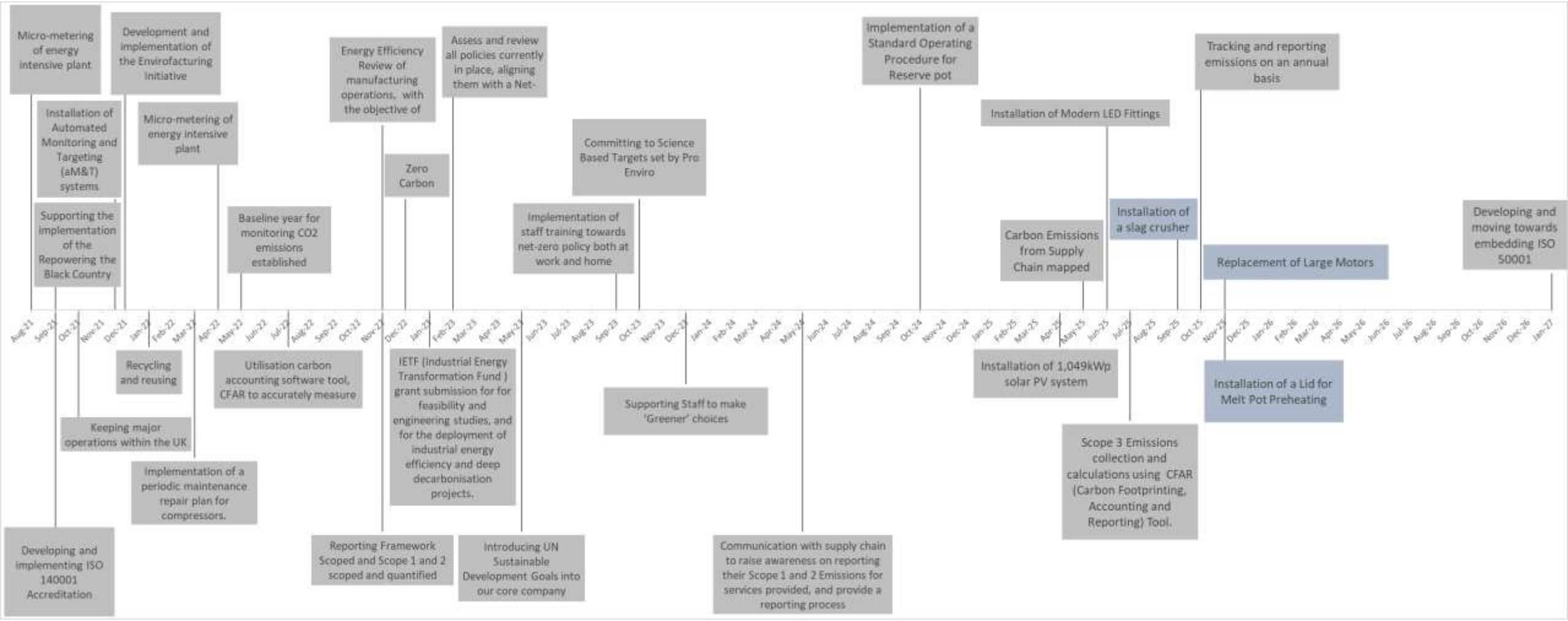
We have enlisted the assistance of Pro Enviro, who are specialist energy, process optimisation and carbon emissions reduction consultants who have been involved in the delivery of innovative solutions to decarbonise the energy intensive sectors of the UK economy throughout the last 30 years.

We are committed to the development of a comprehensive net-zero carbon strategy that is uniquely tailored to our production and needs that we will be implementing over the next 8 years to align ourselves with the Paris Agreement of limiting global warming to below 1.5°C.

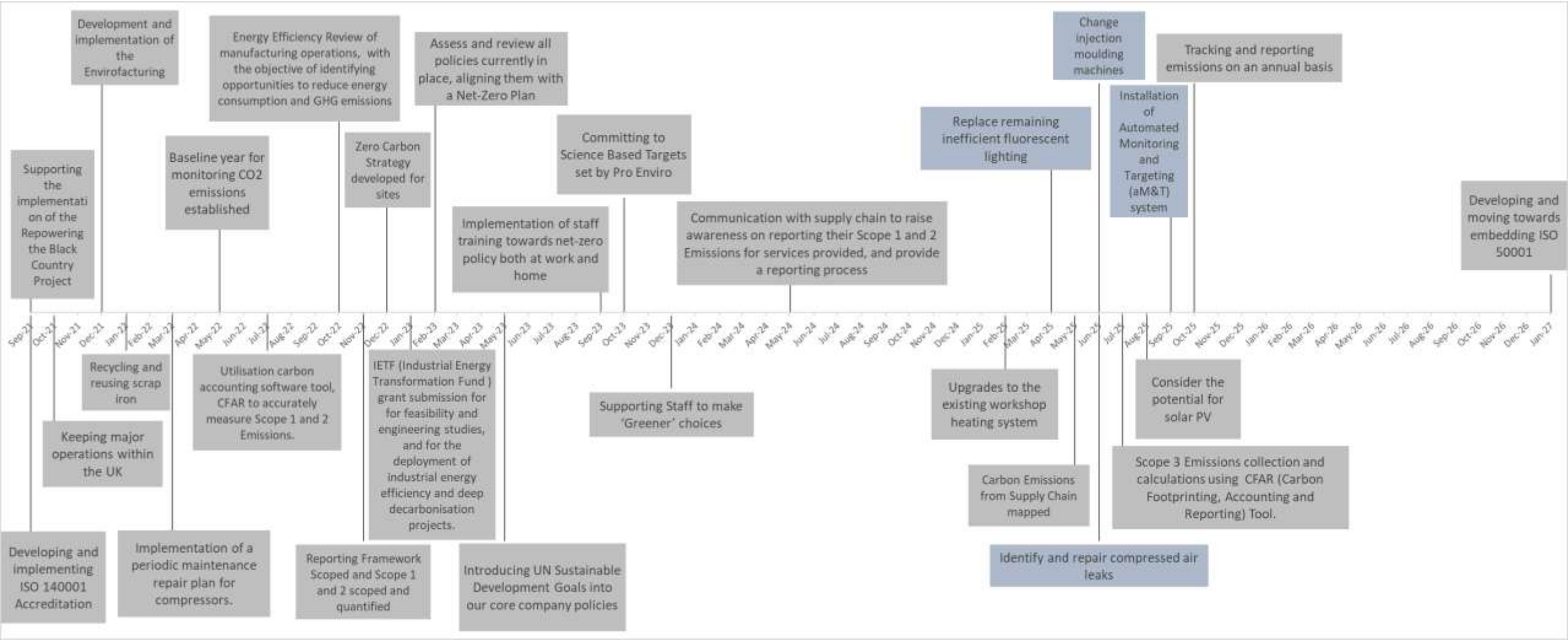
Decarbonisation Plan

Policy and Strategy	Reporting and Data	Scope 1 and 2 Emission Reduction	Scope 3 Emission Reduction
• Set science based targets for scopes 1 and 2 • Assess and review all policies currently in place and ensure current policies align with our net zero plan • Commit to SBT set by Pro Enviro • Introduce UN Sustainable Development Goals into our core company policies	• Baseline year established • Reporting framework scoped • Mapping Scope 1 & 2 carbon emissions using Pro Enviro's CFAR (Carbon Accounting and Reporting) tool for 3 years	• Establish baseline year • Carbon foot printing of manufacturing operations • Micro-metering of energy intensive plants • Continue to manage heating and lighting controls at all of our sites	• Map carbon emissions from supply chain • Begin Scope 3 emissions calculated using Pro Enviro's CFAR (Carbon Accounting and Reporting) tool • Continue to use environmentally friendly inks
• Target of decarbonisation set to 2040 • Develop a robust system for monitoring achievement • Implement staff training regarding net zero policy changes • Introduce renewables into our energy makes	• Track and report emissions annually and calculate emissions savings • Review low and zero carbon strategies to ensure actions are being taken • Develop Zero Carbon Strategies for each site to report consumption data	• Collection of production data for normalising • Data entry into Energy and Carbon Portal (ECP) • Switching most company cars to EVs • Support staff to choose carbon efficient options to travel to work • Introduce renewables into our energy makes	• Communicate with supply chain Scope 3 emission reductions • Complete Scope 3 benchmark • Establish supply chain emissions reporting process • Choose suppliers with the lowest carbon footprint
• Raising awareness of climate change challenge with the supply chain / Scope 3 • Introducing UN Sustainable Development Goals into our core company policies • Developing and moving towards embedding ISO50001 by 2024- 2025	• Collection and Collation of Scope 3 Reductions • Aligning decarbonisation efforts with the SBTi with the possibility of joining in the future. • Join WRI SBTI to verify data	• Implement staff training towards a net-zero policy to help make more environment conscious decisions • Installation of Variable Speed Drive Compressors • Implementation of a Standard Operating Procedure for Reserve pot • Planned installation of 991.77 kWp system • Installation of Destratification fans • Install solar, injection molders, AM&T system, and implement energy report recommendations.	• Plan of action for scope 3 decarbonization • Establish supplier emission reduction commitments • Complete the collection of Scope 3 data • Communication with supply chain to raise awareness on reporting their Scope 1 and 2 Emissions for services provided, and provide a reporting process
• Achieve decarbonisation of scopes 1&2 by 2040	• Engaging external auditors to embed ISO50001.	• Implement further zero carbon strategies • Tracking and reporting emissions on an annual basis	• Extend supplier engagement programs & embed it into contracts • Supplier emissions review annually and revised strategy for future

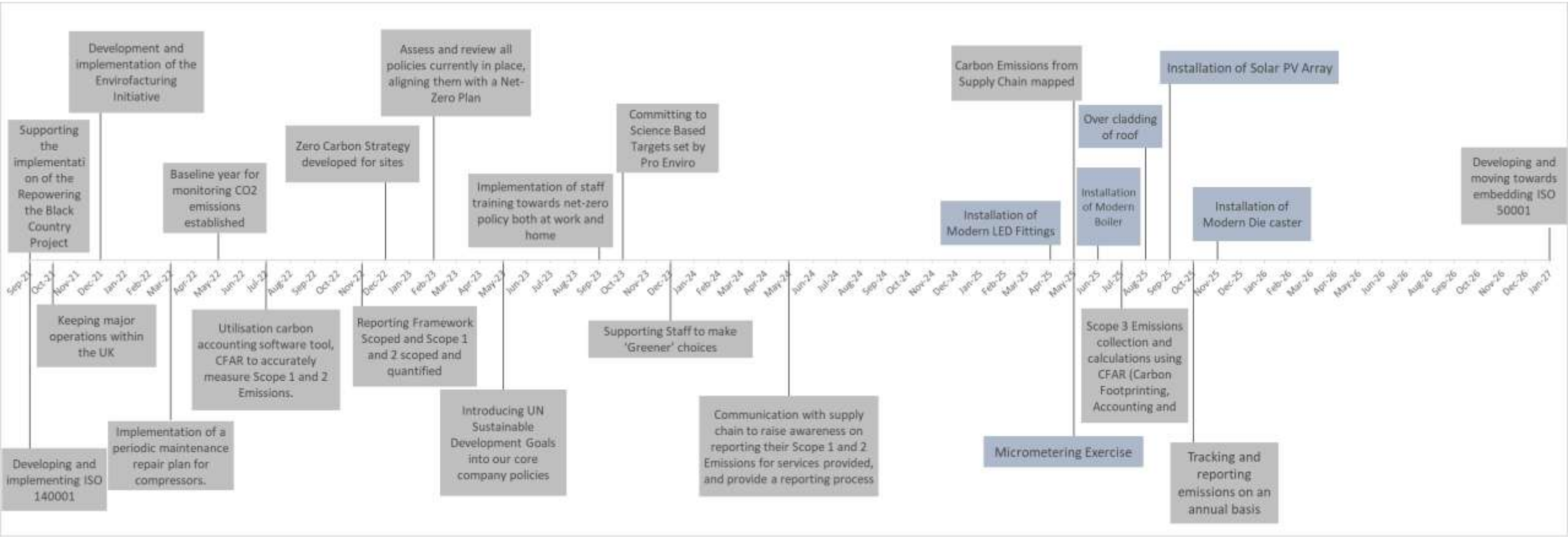
Projects Timeline – Thomas Dudley Foundry Ltd



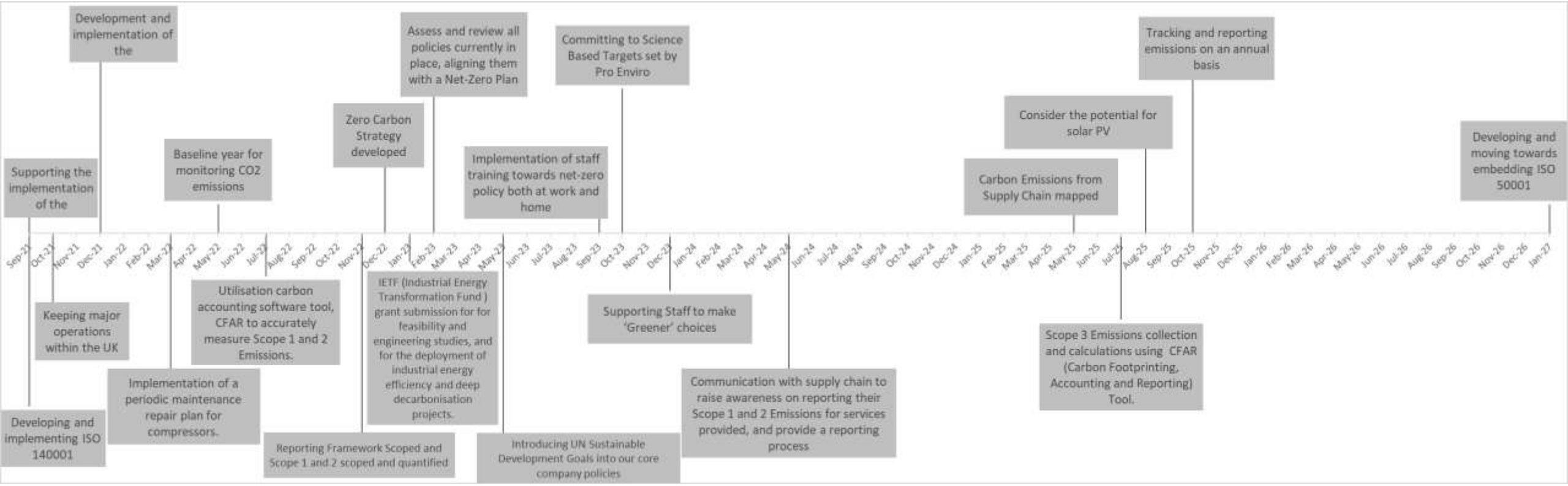
Projects Timeline – Thomas Dudley Ltd - Plastics



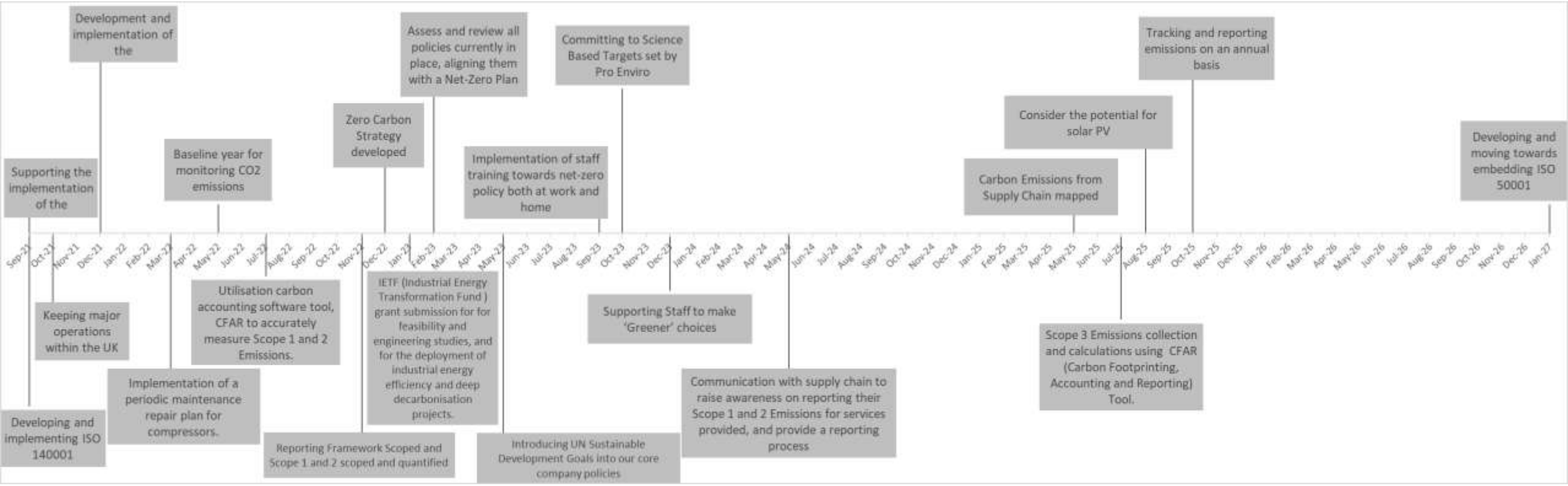
Projects Timeline – McDonalds Diecasting Ltd



Projects Timeline – Rugby Plastics Ltd



Projects Timeline – Waterfit Ltd



United Nations | Department of Economic and Social Affairs
Sustainable Development



Thomas Dudley

Making the SDGs a REALITY

SUSTAINABLE DEVELOPMENT GOALS

The Division for Sustainable Development Goals (DSDG) in the United Nations Department of Economic and Social Affairs (UNDESA) acts as the Secretariat for the SDGs, providing substantive support and capacity-building for the goals and their related thematic issues, including water, energy, climate, oceans, urbanisation, transport, science and technology, the Global Sustainable Development Report (GSDR), partnerships and Small Island Developing States. DSDG plays a vital role in evaluating the UN systemwide implementation of the 2030 Agenda and in advocacy and outreach activities relating to the SDGs.

The 2030 Agenda for Sustainable Development, adopted by all United Nations Member States in 2015, provides a shared blueprint for peace and prosperity for people and the planet, now and into the future. The 17 Sustainable Development Goals (SDGs) are at its heart, an urgent call for action by all developed and developing countries in a global partnership. They recognise that ending poverty and other deprivations must go hand-in-hand with strategies that improve health and education, reduce inequality, and spur economic growth, all while tackling climate change and working to preserve our oceans and forests.



Our Key Sustainable Development Goals

As part of our role in fulfilling and adhering to the Key Sustainable Development Goals, we have implemented as many of these into our business structure as possible, though some fit into our company structure better than others. Our support for each goal is integrated, but some of our main strategies are directly related with key goals at the core.

Our extensive use of science-based initiatives, such as macro and micro-level data analysis, ensures we are meeting the goals we set to reduce our energy consumption. This adheres to Goal 9 of the UNSDGs and is something we look at expanding upon with the installation of an aM&T system shortly.

We have begun to work alongside organisations, such as Pro Enviro, to tackle areas of non-productive energy consumption, where energy was being consumed without a productive output. Micro-metering our energy-intensive plant has allowed us to take targeted action against these areas and ensure we meet Goal 12 by efficiently using energy rather than using it non-productively.

We ensure all staff receive equal and fair pay; this is achieved by compensating above the National Minimum wage. This ensures we are meeting the goals set by the Sustainable Development Goals 1, 5 and 10

Our support of Goal 3, Good Health and Well-being, extends into our staff training for health and safety. Our approach to health and safety is based upon sensible risk management and complying with all relevant legislation, codes of practice and other health and safety standards.









Our Key Sustainable Development Goals

We recognise that we need to play a higher role in helping our industry meet the United Nation Sustainable Development Goals. This is why we help encourage sustainable practice through supporting programmes such as Repowering The Black Country, where Martin Dudley was the Chair of the Industrial Advisory Board for the project.

We are also in the process of reviewing our energy providers and switching to 100% renewable energy sources. In addition, we are looking at installation of a large-scale solar PV system to help reduce our reliance on grid sourced energy during operating hours.







