



CARBON REDUCTION PLAN 2024

PREPARED BY:

PAUL BRESLIN

ESG AND REGULATORY RISK DIRECTOR

REFERENCES

IGNE-ESG-REPORT-2023.PDF

AMBITIOUS CORPORATE CLIMATE ACTION - SCIENCE BASED TARGETS INITIATIVE

SBTI CORPORATE NET-ZERO STANDARD V1.2 (SCIENCEBASEDTARGETS.ORG)

[HTTPS://GHGPROTOCOL.ORG/CORPORATE-STANDARD](https://ghgprotocol.org/corporate-standard)

[HTTPS://GHGPROTOCOL.ORG/STANDARDS/SCOPE-3-](https://ghgprotocol.org/standards/scope-3-)

GREENHOUSE GAS REPORTING: CONVERSION FACTORS 2024 - GOV.UK (WWW.GOV.UK)

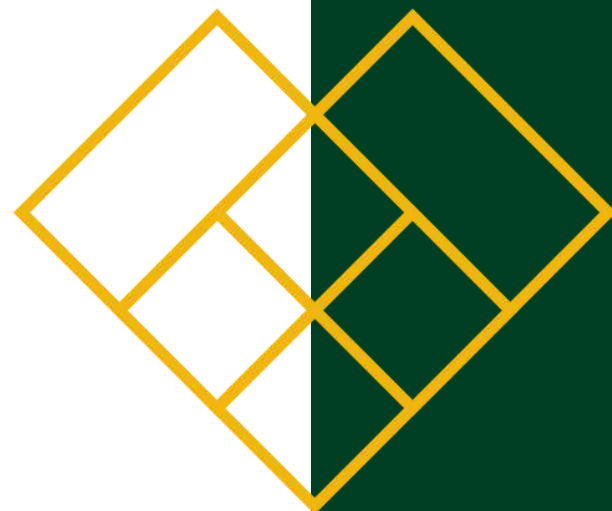
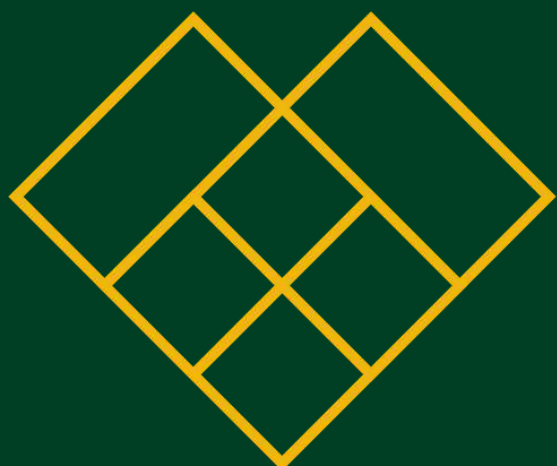


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01 INTRODUCTION

The Brundtland Commission defined sustainability as meeting the needs of the present without compromising the ability of future generations to meet their own needs. In the context of Igne being sustainable, it means that our operations and services are environmentally friendly, socially responsible, and economically viable to ensure long-term success and wellbeing for both current and future stakeholders. This involves reducing our carbon footprint across the business through industry practice, innovation and investment.

Essentially, sustainability for Igne means balancing profit with social and environmental impact to ensure a healthy and prosperous future for all. This Carbon Reduction Plan reflects our commitment to decarbonisation and transparent reporting. We have disclosed details of our carbon accounting in the our ESG report for calendar year ending 2023 and baseline data is reported from FY2022. [igne-esg-report-2023.pdf](#)

This document identifies our most significant carbon issues and it contains plans for our future Net Zero roadmap. Igne Group Ltd has utilised an operational control approach to carbon accounting, and this report covers initiatives and performance metrics associated with our UK operations. Igne will evaluate our sustainability performance annually via our ESG reporting in line with ESRS and CSRD standards. Igne has engaged with an external consultant to provide guidance and advice on our environmental data to ensure we report to corporate standards for greenhouse gas (GHG) reporting. We have utilised the United Nations Sustainable Development Goals (SDGs) as a guiding framework in the development of our ESG initiatives. Igne supports UNSDGs and has selected those most appropriate to our business operations. We will consider further SDGs when developing our ESG strategy and goals.

Our aim is to outline the approach that Igne Group Ltd will take to deliver its Net Zero Ambition. Igne are committed to ensuring that our work contributes positively to the community and environment, in line with the Client's expectations and targets.

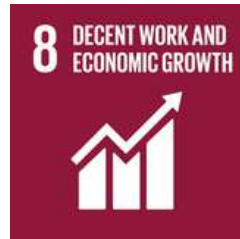
“ Igne Group Ltd has formed a centralised Sustainability team who provide overarching support to all Igne companies to advise and guide our sustainability strategy, including decarbonisation, and have a network of individuals within in each business driving the sustainability strategy through every part of the organisation. ”

We realise that a level of pragmatism is required. There is much that can be done with a good degree of certainty now; however, looking ahead to the next five or ten years and beyond, there are uncertainties. On this journey, it will be necessary to stop regularly, evaluate our progress, and consider our previous approach to ensure we are on the track for the targets we are aiming for.

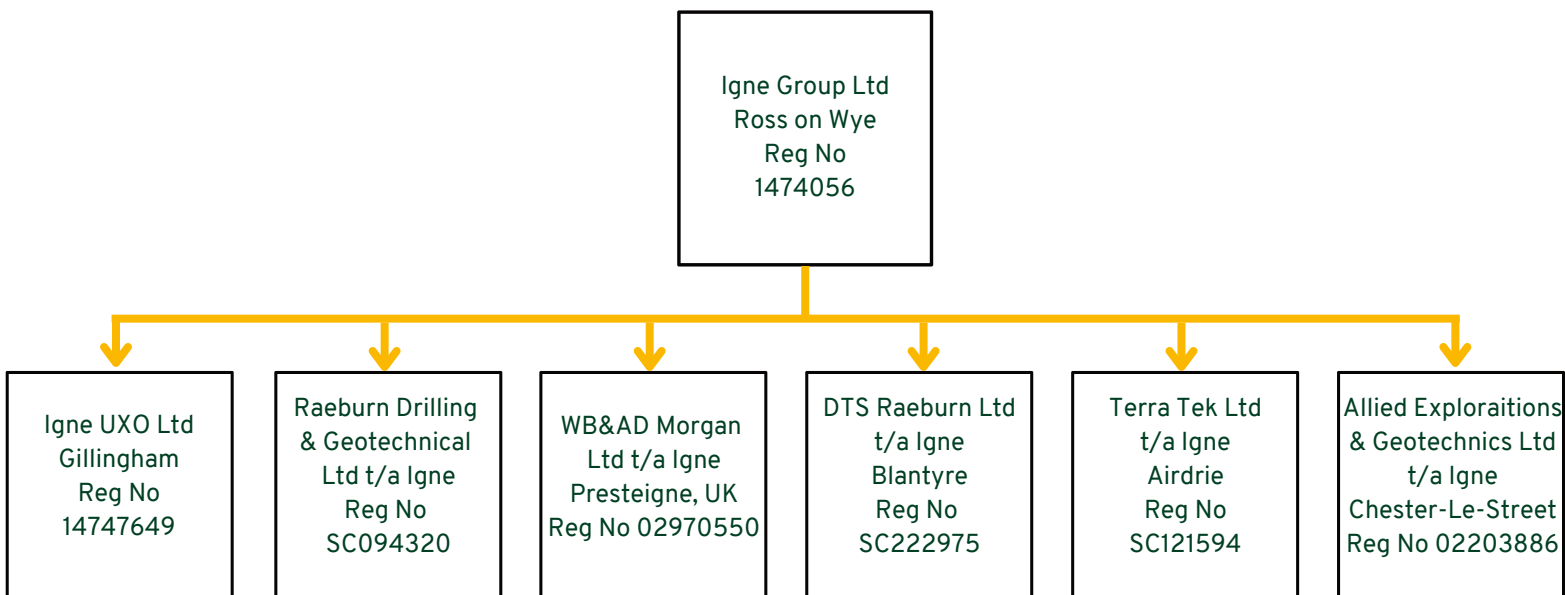
Finally, decarbonisation requires significant collaboration. It's crucial that our customers, clients and supply chain consider their own impacts and influence they hold with their staff and wider stakeholders, and what influence they can have on the green agenda, for example through their own supply chains.

2. OUR CHOSEN USDGS

Igne has chosen to benchmark against UNSDGs 5,8,12 & 13. These have particular relevance to our ESG strategy and carbon reduction plan. Further SDG's may be selected as our plan progresses. For more in depth detail refer to [igne-esg-report-2023.pdf](#)



3. ORGANISATIONAL STUCTURE





04 ROLES & RESPONSIBILITIES

CEO

The CEO has overall responsibility for ESG Governance and is accountable for its overall effectiveness. The CEO has initiated and fully supports the vision and strategic direction for the continued sustainability of the business.

ESG and Regulatory Risk Director

ESG and Regulatory Risk Director is the business lead for sustainability and compliance areas and ensures implementation and the continual improvement of sustainability strategy and practice, and measurement of its effectiveness by:

- Implementation of policies and objectives
- Benchmarking baseline measurements
- Monitoring of ongoing data across all areas of the business
- Analysis of data and reporting carbon performance
- Communicating sustainability performance to the CEO and other internal stakeholders
- Ensuring that our teams are aware of the importance of sustainable performance and goals
- Driving culture change and best practice across the organisation

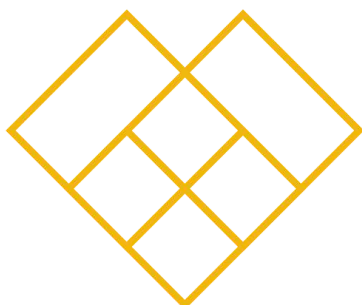
Local Sustainability Ambassadors

Sustainability Ambassadors includes our QSHE managers and local representatives who are responsible for promoting best practice and acting as role models in their respective business units by:

- Leading by example
- Collecting data as requested by the ESG and Regulatory Risk Director
- Reporting any risks and opportunities within each BU
- Attending ESG meetings as required.

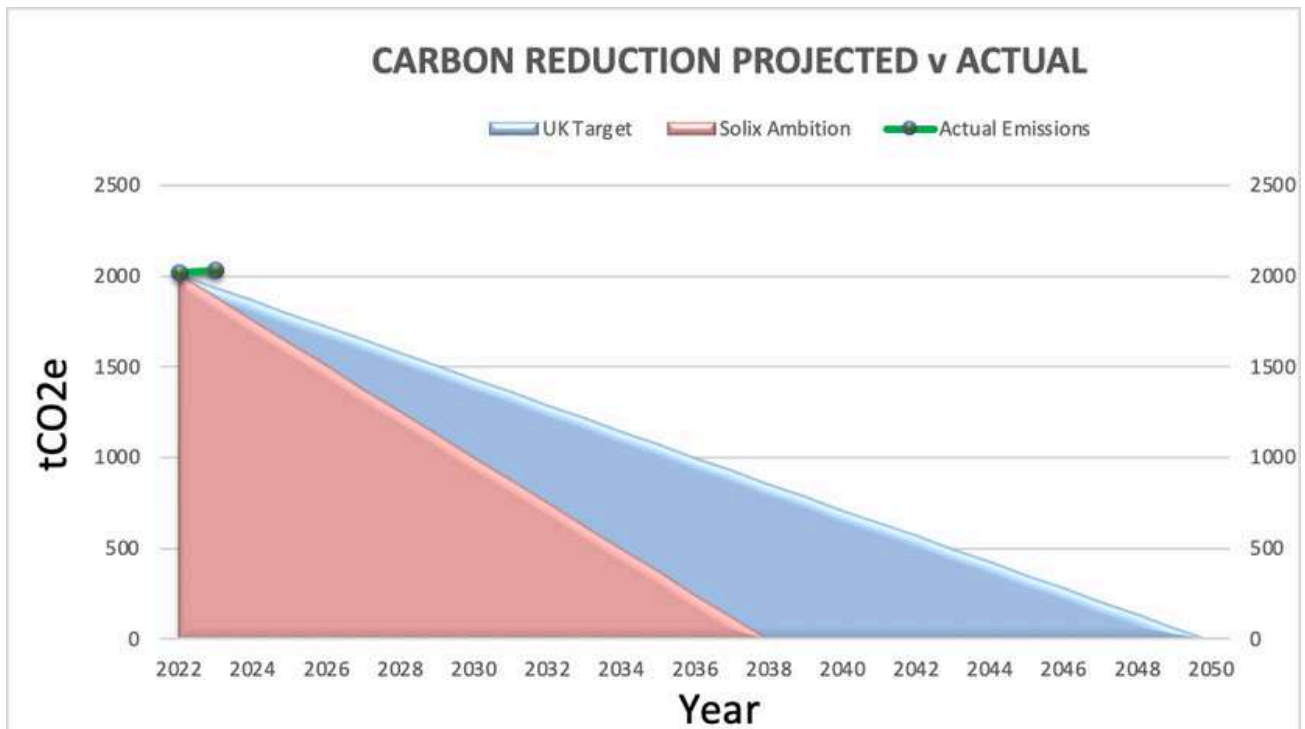
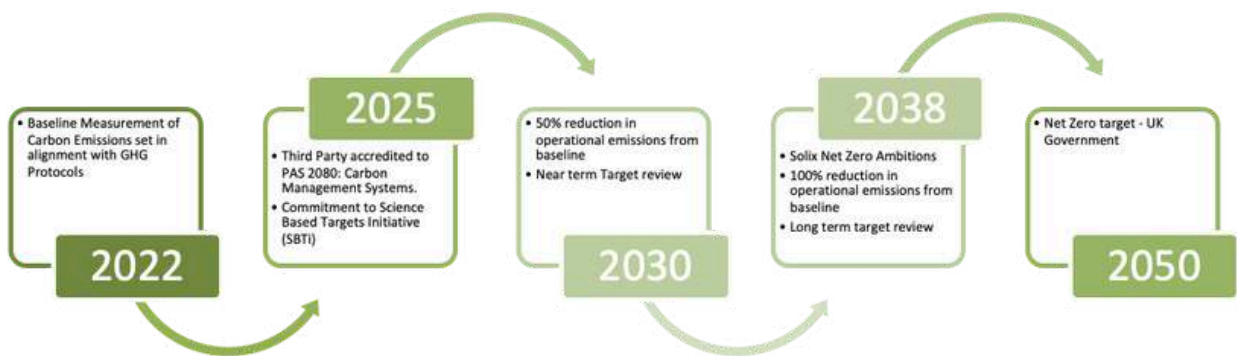
All Staff

All directors, managers and other employees shall fully support all the policies and objectives for sustainable performance. Igne Group Limited's management shall endeavour, always, to create an environment where our people are fully involved and in which our Carbon Reduction Strategy and policy can operate effectively.



5. CARBON REDUCTION TIMELINE

Igne has set ambitions to be Net Zero by 2050 in alignment with UK Government targets. Igne has committed to further ambitions which will reduce its operational carbon footprint and ensure that our route to Net Zero is monitored effectively. The trajectory to Net Zero can be seen below:



Igne recognises that reducing our carbon impact is a critical and urgent issue that requires collective effort. As part of our commitment to the environment, Igne has developed a timeline for Net Zero which is achievable and realistic.

6. REPORTING SCOPE

Igne will regularly assess, track, and report our organisational carbon footprint. This will involve measuring greenhouse gas emissions resulting from our activities, such as energy consumption, transportation, waste management, and procurement. By understanding our emissions profile, we can identify areas for improvement and set targets to reduce our carbon footprint over time.

As part of our carbon reduction strategy, we will ensure that our carbon impacts are identified in line with GHG Protocol reporting requirements and our future commitment to science based targets initiative (SBTi). Igne has already selected its temporal and organisational boundaries, which will be third-party audited to ensure accuracy and transparency.

Igne Group Ltd selected its baseline as FY2022 and, since then, has provided comprehensive data and presented it back to all our stakeholders via our ESG reporting. Our direct emissions inventory includes all GHG scope 1 & 2 emissions and we have begun pre-screening our carbon arising from select scope 3 emissions;

Scope 1

- Transportation fuel
- Natural gas
- Oils & lubricants
- Site plant and equipment fuel usage
- Welfare facilities & generator usage

Scope 2

- Indirect emissions from grid electricity

Scope 3

- Staff transport in non-company owned vehicles, air travel and rail travel
- Third party procured fuels and energy (including well to tank impacts)
- Hotel stays
- Water use
- Waste arising from our operations
- Well to tank emissions arising from all Scope 1 & scope 2 emissions sources.

For scope 2 emissions accounting we have chosen to report 'Absolute Emissions' from our electricity use using the location-based methodology. We feel this is the most appropriate way to account for this emissions source.

REPORTING SCOPE CONT'D

In addition, it is recognised that biofuels and bioenergy are beginning to play a role in decarbonising our business and indeed the sector at large. We have chosen to disclose the GHG protocol defined 'out of scopes' emissions associated with the use of biogenic emissions. However, as these are not deemed a net contributor to global carbon emissions, they are not included in Igne's total net emissions.

Igne is in the process of identifying a sub-set of scope 3 emissions and not the full scope 3 inventory due to relevance to the application within our business. We are reviewing carbon reduction initiatives group-wide through our ESG sustainability strategy to enable us to reduce emissions on a project by project basis.

Over the course of 2024 we will continue to refine our methodologies and work towards Scope 3 emissions disclosures when appropriate.

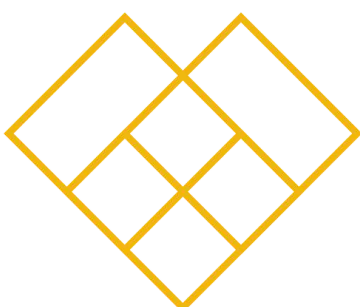
Standards and methodology

As part of the Solix Group, we will be follow ESRS and CSRD standards for ESG reporting. Forming part of this report will be our carbon emissions reporting, where we will report to GHG Protocol - Corporate Standards. This will ensure our GHG inventory represents a true and fair account of our emissions through the use of standardised approaches and principles. Our conversion factors used to calculate the emissions are based on the use of primary data where available and the application of UK Government DEFRA conversion factors.

Recalculation Policy

Recalculation of the baseline accounts will be undertaken under the following circumstances:

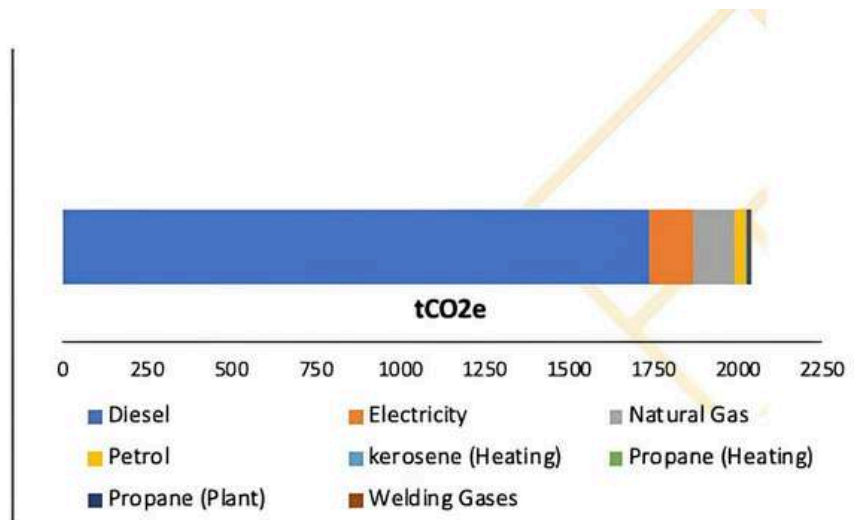
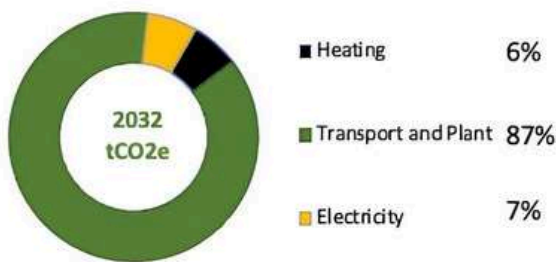
- Re-calculation due to structural changes
- Re-calculation due to changes in the calculation methods (scope 3)



7. DATA REPORTING

The tables and charts below provide a summary of our carbon emissions in comparison to baseline and by intensity.

Emissions scope	Baseline Emissions 2022		2023 Reporting		Variance	
	tCO2e	tCO2e /person	tCO2e	tCO2e /person	Absolute	Intensity
Scope 1	1849.07	6.53	1900.48	6.78	+2.7%	+3.8%
Scope 2	169.70	0.60	132.34	0.47	-22%	-22%
Total S1 & S2	2018.76	7.13	2032.82	7.26	+0.7%	+1.8%
Out of scope	-	-	115.96	0.41	-	-



2023 EMISSIONS SOURCES REPORTING

8. EMISSIONS INVENTORY

Emissions inventory item	Unit of measure	Carbon conversion factor source	Primary data source	Data type	Data Uncertainty	Emissions Scope	Comments
Liquid fuels; Gas Oil, HVO, Diesel, Petrol, LPG, Natural Gas	Litres	DEFRA Factors	Invoices and Accounts	Measured	Low	1	Liquid fuels are supplied via preferred suppliers from monthly fuel purchased basis. This covers direct purchases only.
Business travel in company vehicles	Miles	Actual vehicle CO2 emissions	Company expense returns	Measured	Low	1	Calculations from expenses based on the total distance travelled multiplied by the average carbon emission factors of our fleet vehicles as given by the manufacturer.
Electricity	kWh	DEFRA Factors	Energy supplier transaction reports	Measured	Low	2	Electricity data is obtained from our electricity providers energy reports on a monthly basis.
Waste	Tonnes	DEFRA Factors	Project level submissions via applications	Measured	Low	3	Waste transactions are captured at site level where data is entered in to the appropriate application for each company.
Employee commuting in private vehicles	Miles	Actual vehicle CO2 emissions	HR database	Calculated	Med	3	Staff transport in private vehicles is calculated by the total distance travelled multiplied by the average carbon emission factors of privately owned vehicles as given by the manufacturer.
Staff transport via air, rail and sea	Miles	DEFRA Factors	Company travel providers database	Measured	Low	3	Data from employees using rail, air or sea travel. Reports are collected every month with additional data coming from our expenses system.
Hotel accommodation	Number of rooms	DEFRA Factors	Invoices and Accommodation receipts	Measured	Low	3	The number of nights in hotels is reported each month from invoices and expenses.
WTT emissions associated with Scope 1 & 2 emissions	As per emissions source	DEFRA Factors	Calculation applied to primary data	Measured	Low	3	WTT emissions are calculated against our measured scope 1 & 2 emissions sources using the DEFRA conversion factors.
Water	m3	DEFRA Factors	Meter readings and site records	Measured	Med	3	Water usage at fixed premises and water used for welfare facilities at temporary sites.
Biogenic emissions	Litres	DEFRA Factors	Supplier transaction reports	Measured	Low	'Out of scopes'	Biogenic emissions from the use of biofuels are disclosed but not deemed a net contribution to GHG emissions as per the definition given in the GHG protocol.

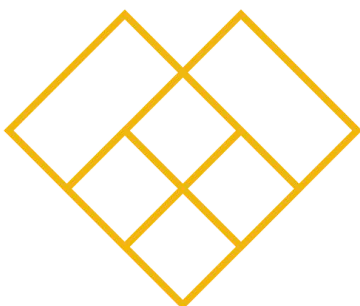
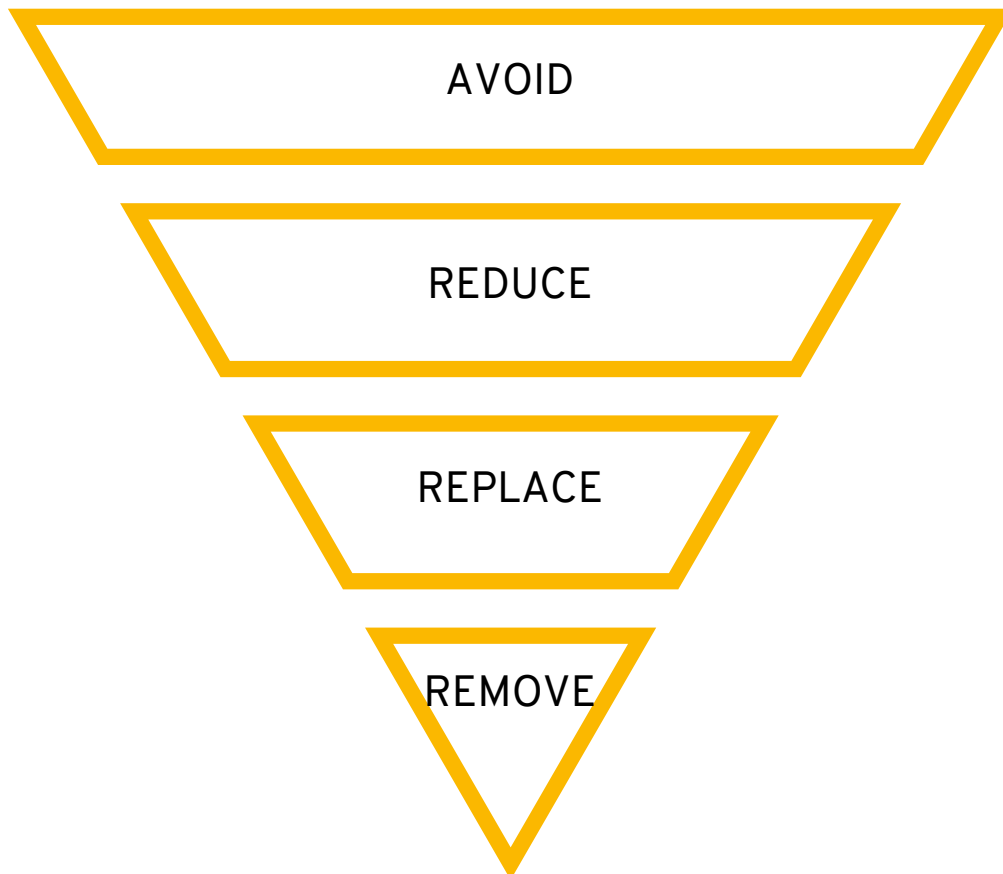
9. OUR APPROACH TO CARBON REDUCTION

Scope 1 Emissions

Igne's emissions are significantly attributable to transportation and mobile plant and this accounts for 87% of our overall reported emissions. These emissions stem from the many number of HGVs and LGVs used to deliver our services across the UK

Liquid fuels (diesel & petrol) are by far the largest contributor to our direct emissions making up over three quarters of our emission source measurement and will be a key focus for our future carbon reduction strategy. Our commercial, HGV and plant fleets are essential to our service and we are already in the process of decarbonising our company car fleet across all businesses.

To reduce our carbon footprint from our fleet operations, we will use the GHG Hierarchy of Reduction:



Stage 1 – Avoid

Igne's first principle will be to avoid increasing our carbon footprint by identifying activities that can be stopped without any adverse effect on the business. This will be through conducting a strategic review of our current operations.

Stage 2 – Reduce

Igne aims to reduce our carbon emissions by reviewing our overall fleet coverage and identifying where reductions can be made. These considerations will be based on cost effectiveness and viability. The following approaches should be considered:

- Reducing the overall fleet size by sharing vehicles and car pooling
- Reducing mileage by promoting overnight stays where practical and cost effective
- Reducing fuel consumption through driver training and better driving techniques
- Reducing emissions by ensuring that fleet vehicles are subject to regular maintenance checks

Stage 3 – Replace

Igne has already begun to prioritise replacement of existing company vehicles with EV and Hybrid alternatives. Consideration should be given to further actions:

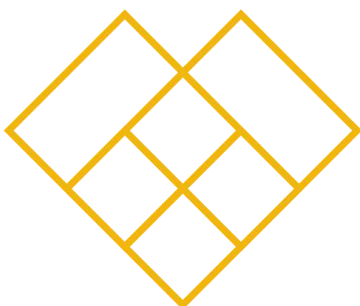
- Replace all vehicles which are not Euro 6 compliant with modern plant and vehicles
- Replace ICB with hybrid or EV commercial vehicles
- Replace fossil fuels with green alternatives (HVO or Hydrogen)

Stage 4 – Remove

Residual emissions which have a low impact on overall carbon footprint can be removed by offsetting, however this would be only considered after evaluation of carbon footprint reduction strategies has been conducted and direct action taken to reduce our major emission sources.

Other Scope 1 Emissions Sources

Emissions from the other sources listed such as natural gas, welding gases and stationary combustion equipment are important in contributing to our carbon footprint, however these remain low contributors.



Scope 2 Indirect Emissions

For scope 2 emissions accounting, despite the fact that 49% of our electricity supply is generated from renewable sources determined from our energy supplier declaration, we have chosen to report the absolute emissions using DEFRA UK average factors and adopting a location-based methodology in place of market-based. We feel this is the most appropriate way to account for this emissions source

Igne will prioritise energy efficiency measures across our operations. This includes investing in energy-saving technologies, promoting responsible energy use among employees, and utilising renewable energy sources where feasible. By reducing our energy consumption and optimising efficiency, we aim to decrease our greenhouse gas emissions and contribute to the global effort in combating climate change and improving air quality.

Scope 3 Emissions

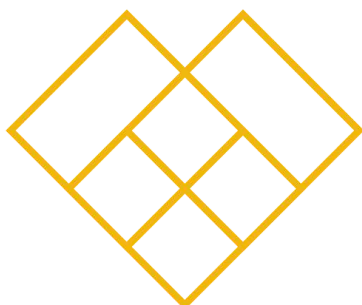
Igne has begun the process of pre-screening our Scope 3 emissions to determine which categories are applicable to our organisation. Further details can be found in Section 8: Emissions Inventory.

Innovations and future considerations

Igne will explore innovative solutions for environmental challenges. This can include the development of new technologies or practices to minimise environmental impacts associated with our premises and projects or to minimise the environmental impacts of our operations.

Examples of innovative Alternatives:

- Eco generators for site compounds
- Movement sensors to reduce usage in low occupancy areas in our permanent premises
- LED Lighting in all premises
- Recyclable consumables (sampling equipment & containers)
- Waste reduction measures such as recycling and re-use of materials
- Eco welfare units (solar or hydrogen)
- Greener laboratories (reducing unnecessary sampling and testing)



Enhancement of Natural Environment

To ensure the impact to habitat and species and biodiversity is minimised, Igne will take consideration of alternative methods of site survey and site assessment. The use of drones could be used where permitted to minimise vegetation clearance. Non-intrusive works should be considered where intrusive operations would normally be the preferred option (GPR surveys, down-hole geophysical, CPT).

Sustainable Supply Chain

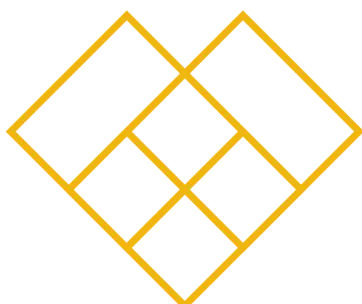
Igne recognises the importance of collaborating with suppliers who share our commitment to sustainability. We will actively engage with our supply chain partners to encourage the adoption of eco-friendly practices, such as reducing packaging waste, implementing recycling programs, and sourcing materials from renewable sources. By integrating sustainability criteria into our procurement processes, we can promote responsible business practices throughout the supply chain.

Igne will endeavour to maximise influence of our stakeholders to protect the environment and improve the environment for all. To achieve our targets, it is essential to consider the impact on various stakeholders, including staff, suppliers, customers, and communities. In the case of environmental protection and improvement, the following strategies can be implemented to influence these stakeholders positively:

Stakeholder Engagement:

Igne will actively engage with our stakeholders, including employees, clients, suppliers, and local communities, to raise awareness about climate change and encourage their participation in sustainable practices. By fostering a culture of knowledge-sharing and dialogue, we aim to empower individuals to take collective action towards minimizing their carbon footprint.

Igne will use its in-house expertise in environmental management and consultancy to provide technical support and advice for projects. This can include conducting environmental assessments, compliance monitoring, and providing guidance on best practices.



10. MONITORING & REPORTING

Igne will report our carbon performance as part of our annual ESG reporting requirements in line with ESRS and CSRD standards. This will ensure that our data is accurate and validated.

Annual reporting of carbon data will also form part of the organisations commitment to PAS 2080: carbon management accreditation which is now being introduced at group level to provide third-party certification.

Igne Group Ltd is accredited to ISO 14001 standards and will continue to monitor all aspects and impacts as well as identifying risks and opportunities in all our operational areas.

Data will be captured through our finance teams, local ambassadors and site operations and management. All data will be validated through direct measurement and accounting. Where calculations are required to estimate carbon levels, methodology will be declared. Examples of measurement can be seen in our Emissions Inventory.

11. DECLARATION

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans. This plan applies to Igne Group Limited including all of its subsidiaries

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.

This Carbon Reduction Plan has been reviewed and signed off by the Executive Directors of Igne Group Ltd and will be reviewed annually.

Signed on behalf of Igne Group Ltd



ESG and Regulatory Risk Director