Carbon Reduction Plan

Supplier name: WGM Engineering

Publication date: November 2023

Commitment to achieving Net Zero

WGM Engineering recognises that climate change is one of the greatest challenges of our times and supports the Paris Agreement and its goal to keep the increase in global average temperature to “well below 2°C above preindustrial levels and pursuing efforts to limit the temperature increase to 1.5°C above pre-industrial levels”.

We are committed to being a Net Zero company and we will take every possible measure to accelerate our progress towards this goal. We aim to achieve Net Zero carbon across our controlled operations (Scope 1 and 2) by 2033. At the same time, we acknowledge that, with the delivery of engineering projects and services, one of the greatest challenges is reducing Scope 3 emissions, due to the embodied carbon in purchased materials. Our approach is to collaborate with all our supply chain partners and to achieve Net Zero across our wider supply chain (Scope 3 emissions) by 2040.
To support the world in limiting global warming to 1.5ºC we have committed to achieving a verifiable science-based target, validated by the Science Based Targets initiative (SBTi). WGM Engineering is part of the RSK Group that has submitted targets to the SBTi and is awaiting verification.

Baseline Emissions Footprint

Baseline emissions are the reference point against which emissions reduction can be measured.
Previously, we used 2020/21 as a baseline year. We have now reviewed and reset our baseline year to 2022/23. This better reflects of our current business operations and operational boundaries, e.g. our Scope 3 supply chain emissions reporting is now comprehensive. This also provides a robust base from which to measure improvement. In addition, we now include business travel, commuting and waste generated in operations.

Baseline year: 2022/23

Additional details relating to the Baseline Emissions calculations.

The scope of our carbon emissions reporting is shown below.

Scope 1: Direct Emissions from activities controlled by us

- → Fuel consumed by our fleet
- → Fuel used on site and gas used to power heating systems (offices and sites)

Scope 2: Indirect emissions associated with our consumption of purchased electricity

- → Purchased electricity: offices and workshops

Scope 3: Other indirect emissions which are caused by our activities from assets that are not owned by us and not directly controlled by us.

- → Purchased goods & services
- → Waste generated in operations
- → Business Travel
- → Employee Commuting

Baseline Year: 2022/23	
Additional Details relating to the Baseline Emissions calculations.	
Our reporting period is aligned with our financial reporting (April to March). Carbon emissions are calculated in tonnes of carbon dioxide equivalent (tCO2e) using the appropriate conversion factors provided by DEFRA, in line with the Greenhouse Gas Protocol Corporate Accounting and Reporting standard. The following Greenhouse Gas Protocol scope 3 categories have been calculated: Purchased goods and services – A spend based approach was used to estimate the CO2e emissions. Waste generated in operations – A data driven approach was taken by calculating quantities of each waste type generated and then using the most appropriate UK Government Emission Factors (DEFRA) to convert these quantities to the CO2e emissions. Business travel – For staff using their private cars (grey fleet) for business travel mileage data obtained was converted into CO2e emissions using the UK Government Emission Factors (DEFRA). Employee commuting – A data driven method has been used for this calculation, which involves converting employee commuting mileage data to the CO2e emissions using the UK Government Emission Factors (DEFRA).	
Baseline year emissions: 2022/23	
EMISSIONS	**TOTAL (tCO_2e)**
Scope 1	1,778
Scope 2 **(Location-based)**	65

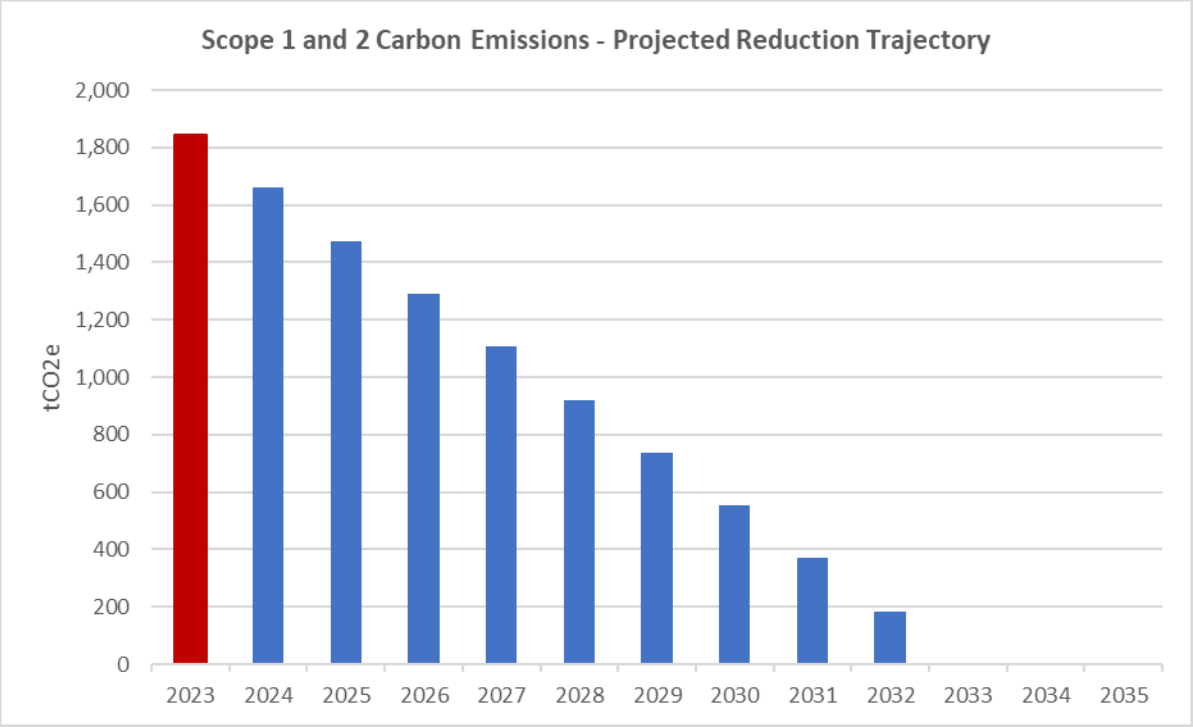
Scope 3 **(Included Sources)**	Purchased goods and services emissions: 11,178 Waste generated in operations emissions: 5,448 Business travel emissions: 18 Employee commuting emissions: 213 Upstream transportation and distribution emissions: not included in reporting boundary. Downstream transportation and distribution emissions: not relevant to WGM Engineering. WGM Engineering do not manufacture products to a significant scale, that are then sold downstream to customers and therefore emissions are not reported for this category.
Total Emissions	**18,700**

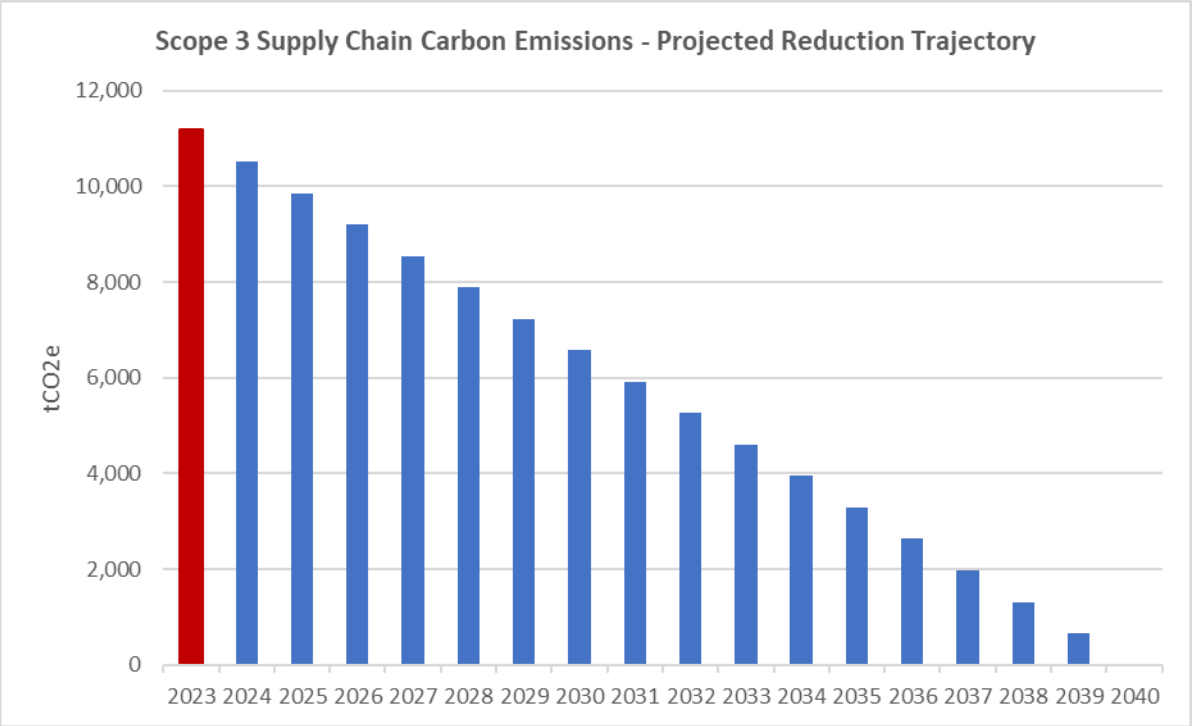
Emissions reduction targets

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

→ 2033 - Net Zero across our controlled operations (Scope 1 & 2)
→ 2040 - Net Zero across our wider supply chain (Scope 3)

Progress against these targets and projected emissions can be seen in the graph below:





Carbon Reduction Projects

Completed Carbon Reduction Initiatives:

→ To ensure carbon transparency of our all activities, we capture and monitor the following data:

- Fuel used by our fleet.
- Electricity consumed in our offices and workshops.
- Gas and fuels used to heat our offices and workshops, and to generate power on sites
- Materials, components, and products we are buying.
- Waste from our operations including construction and demolition waste.
- Business travel.
- Employee commuting.

This information forms a baseline against which we measure carbon emissions change.

→ WGM Engineering started to switch utilities contract to SSE Green, a new supplier initiative from SSE Business Energy. The contract covers WGM's electricity and guarantees that all the electricity we use will originate from 100% renewable sources with a zero-emission rating. All SSE Green electricity is backed by the Renewable Energy Guarantees of Origin scheme.

→ WGM Engineering has begun transitioning fleet to electric and alternatively fuelled vehicles such as Hydrotreated Vegetable Oil (HVO).

In the future we hope to implement further measures such as:

→ Continuing to decarbonise our fleet and progressing with installation of renewable technology at our premises.

→ Specific carbon reduction initiatives are being developed to support WGM Engineering's commitment to achieve Net Zero across our controlled operations (Scope 1 & 2) by 2033 and Net Zero across our wider supply chain (Scope 3) by 2040. Further details will be provided in a future update.

Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard[1] and uses the appropriate Government emission conversion factors for greenhouse gas company reporting[2].

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[3].

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of the WGM Engineering:

Name: Martin Bradbury

Role: Chairman

Date: November 2023

[1] https://ghgprotocol.org/corporate-standard
[2] https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting
[3] https://ghgprotocol.org/standards/scope-3-standard