

QinetiQ Group plc Greenhouse Gas Reporting Principles and Methodologies for the reporting period 01 April 2024 to 31 March 2025

1. Introduction

As the Directors of QinetiQ Group plc we confirm that we are solely responsible for the preparation of the 'Environmental, Social & Governance' section of the Annual Report and Accounts and for reporting the selected greenhouse gas emissions data for the year ended 31 March 2025 (the "Subject Matter Information") in accordance with the reporting criteria set out in this document.

We confirm that to the best of our knowledge and belief, that we have:

- designed, implemented and maintained internal controls and processes over information relevant to the measurement, evaluation and preparation of the Subject Matter Information that is free from material misstatement, whether due to fraud or error;
- established objective reporting criteria for preparing and presenting the Subject Matter Information, including clear definition of the entity's organisational boundaries, and applied them consistently;
- presented information, including the reporting criteria, in a manner that provides relevant, complete, reliable, unbiased/neutral, comparable and understandable information;
- reported the Subject Matter Information in accordance with the reporting criteria.

QinetiQ Group plc ('QinetiQ') acknowledges the clear scientific evidence linking the rising concentrations of "greenhouse gases" in our atmosphere to a global warming effect that is resulting in changes to the Earth's climate.

As a responsible organisation, QinetiQ seeks to minimise all adverse environmental impacts resulting from its operations. These include the direct and indirect release of greenhouse gas emissions from the use of energy, fuels and refrigerants across the business. QinetiQ employs a dedicated Energy Team to develop and operate an ISO50001 certified Energy Management System across the majority of its UK business (and majority of its Group emissions footprint) to deliver continuous improvement in energy efficiency and greenhouse gas reductions.

QinetiQ is a UK FTSE250 quoted company, and as such is subject to legal obligations with respect to the reporting of greenhouse gas emissions as outlined in **Companies Act 2006 (Strategic Report and Directors' Report) Regulations 2013**. The reporting is prepared with reference to the **Environmental Reporting Guidelines: Including streamlined energy and carbon reporting guidance (March 2019)**.

This document outlines the criteria and supporting methodologies that have been adopted to prepare QinetiQ's annual greenhouse gas emissions report.

2. Scope & Boundary

a) Emissions & Sources

QinetiQ includes Scope 1 and Scope 2 greenhouse gas emissions, as defined in Section 92 of the Climate Change Act 2008 (carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs) and sulphur hexafluoride (SF₆)), within its annual greenhouse gas report.

The following sources of emissions are included within the report:

Direct emissions:

- Stationary combustion – combustion fuels in stationary equipment e.g. boilers, heaters and engines
- Mobile combustion – combustion of fuels in transportation devices e.g. automobiles and aircraft
- Process emissions – emissions released as a result of a physical or chemical process e.g. the detonation of explosive material
- Fugitive emissions – intentional or unintentional releases, such as refrigerant leaks from air conditioning, sulphur hexafluoride from specialist equipment etc.

In-direct emissions

- Emissions from the generation or purchased electricity that is consumed in owned or controlled equipment.

b) Organisational Boundary

QinetiQ adopts a Financial Control boundary approach in its annual greenhouse gas reporting. This includes all sources of emissions over which QinetiQ has the ability to direct the financial and operating policies of an entity with a view to gaining economic benefit from its activities, and where QinetiQ retains the majority risks and rewards of ownership of the entity's assets.

Under the Financial Control approach, 100% of the calculated impact arising from Group companies and subsidiary entities is included, with emissions from joint ventures incorporated under an equity share approach.

On an annual basis the organisational boundary is reviewed to ensure that any new legal entities are included where necessary. This is completed using the organisational structure from the Company Secretary. From this a review of properties is completed to identify what, if any, new sites fall within the scope of the emissions reporting (e.g. the property assets associated with a company acquisition, the opening of a new facility etc), and also sites which are no longer within the reporting scope (e.g. site closures, divested entities etc). The updated organisational and property records are then reconciled to determine the boundary for the reporting year, after which the emissions source data is requested from the appropriate site contacts.

Emissions from entities acquired during the financial year will be incorporated into the annual greenhouse gas report in the next reporting period in accordance with the scope and boundary criteria set out in this document, unless otherwise indicated in our reporting. Emissions from entities disposed of during the year are included up to the date of disposal within the respective annual reporting year.

a) Property Assets

QinetiQ has a mixed tenure property portfolio. This includes assets that are wholly owned by the QinetiQ Group, assets that QinetiQ operate under a long term license, and assets to which QinetiQ is the lessee to a 3rd party landlord entity.

The annual greenhouse gas emissions report includes all emissions from assets that are wholly owned by the QinetiQ Group or operated under a long term partnership agreement (LTPA). Greenhouse gas emissions associated with leased assets across the QinetiQ Group are reported within the financial control approach in line with the Greenhouse Gas Protocol classification outlined in Table 1 below.

Table 1 Emissions from Leased Assets: Leasing Agreements and Boundaries (Lessee's Perspective), "Categorizing GHG Emissions Associated with Leased Assets Appendix F to the GHG Protocol Corporate Standard"

GHG Reporting Boundary Approach	Type of lease	
	Finance/Capital	Operating
Financial Control / Equity Share	Lessee does have ownership and financial control, therefore emissions associated with fuel combustion are scope 1 and with use of purchased electricity are scope 2.	Lessee does not have ownership or financial control, therefore emissions associated with fuel combustion are scope 3 and with use of purchased electricity are scope 3.

Operational Control	<i>Lessee does have operational control, therefore emissions associated with fuel combustion are scope 1 and with use of purchased electricity are scope 2</i>	<i>Lessee does have operational control, therefore emissions associated with fuel combustion are scope 1 and with use of purchased electricity are scope 2</i>
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In cases where there are trials or other customer activity on QinetiQ-owned sites (e.g. Formidable Shield), only the emissions from QinetiQ-owned assets fall within scope 1 and 2. Emissions from the customer assets will fall into the boundary of the customer, rather than the QinetiQ Group.

3. Reporting Format

a) Period

QinetiQ produces its Annual Report and Accounts for the 12 months to 31 March, and the greenhouse gas emissions reporting also aligns to this period. QinetiQ reports Scope 1 and Scope 2 greenhouse gas emissions for the current year and preceding year. These are presented in absolute values, and normalised against Group revenue to give an intensity ratio with the units Tonnes of CO₂ equivalent per million pounds (TCO_{2e}/£m).

b) Emission Factors

For the 12 months to 31 March 2025 (FY25), QinetiQ has used the Greenhouse gas reporting: conversion factors 2024 for our UK emissions (<https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2024>) in order to determine the Group's Scope 1 and Scope 2 emissions.

We adopt the conventional approach in calculating our carbon emissions through the collection of primary source data in their appropriate units (e.g. kilowatt-hours (kWh), litres (L), kilograms (kg), kilometres (km) etc.) and converting into the associated carbon emissions using the relevant emissions factors.

4. Emissions Data

The greenhouse gas data is collected annually across the QinetiQ Group in two tranches. The first tranche captures Q1-Q3 of the reporting period and is collected in January. The Q4 data is collected after year end in April.

Data collection templates are issued to relevant site and business unit contacts across the company. The completed templates are consolidated by the Energy Team. Information is also obtained from the QinetiQ management systems; including the Energy Bureau, accounts payable, Environmental and Energy Management Systems, QMAS (explosives database), and from our supply chain.

The data is subject to internal reviews followed by independent 3rd party limited assurance prior to inclusion in the Company Annual Report (see section 5).

a) Scope 1 Emissions Sources:

i. Gaseous and Liquid Fuels

QinetiQ procures its UK mains gas supplies centrally on a portfolio contract with an energy supplier. The consumption data and monthly bills for each supply are sent directly into our 3rd party Energy Bureau provider for validation and reporting. This process forms part of our ISO50001 certified Energy Management System, and is subject to both internal and external management system audit. Gas consumption data for the reporting period is copied from the validated monthly bills and consolidated into a central record by QinetiQ. The majority of our natural gas consumption included in our Group greenhouse gas report is covered by this process.

For subsidiary and international sites mains gas data is collected directly from the sites using relevant reporting templates.

If gaps in the period for natural gas data are identified a pro-rata estimation technique is adopted whereby data from a comparable period e.g. days/weeks either side of the gap (accounting for weekends) is used to estimate consumption for the missing days.

QinetiQ operations use of a variety of liquid fuels such as gas oil, kerosene, jet fuel, diesel, LPG, marine gas oil etc. The liquid fuels data for all QinetiQ Group sites is collected using the relevant reporting templates as issued by the Energy Team during the reporting year.

The liquid fuels source data is primarily volumes purchased taken from supplier statements, invoices and other relevant internally maintained records. In some instances, where fuels are purchased on a bulk basis and actual consumption data is not available, we make the assumption that purchased volume equates to consumption. There are instances where some of the bulk purchased fuels are sold onto other organisations operating from our sites. These volumes are excluded from calculating QinetiQ's emissions reporting.

Fuel used for aviation and aerial targets is treated slightly differently. For aircraft, fuelling logs for the reporting period are used to calculate consumption. Fuel used in aerial targets is estimated using the average fuel tank size and the number of flights for each type of target.

Air Affairs was acquired by QinetiQ Group Plc in FY23. In line with the above acquisition policy, Air Affairs was first included in reporting in FY24. Fuel log records have been provided for all aircraft owned by Air Affairs. "Uplift" was deemed the most accurate measure of fuel consumption, being the volume of fuel inserted into an aircraft during refuelling. This includes all fuel added to a jet in the reporting period and assumes that all such fuel is consumed within the reporting period (in keeping with fuel delivery methods used for sites). The calculation excludes refuelling from "Suppliers" where the term "to"/"from"/"into" has been used as a descriptor because these denote a transfer of fuel from one owned aircraft to another and prevents double counting of this fuel. The total fuel uplift is then converted into emissions using the UK Gov emissions factors for AVTUR, as with all other aviation fuel consumption.

ii. Fluorinated Gases

Fluorinated gases fall within the Scope 1 reportable emissions, and QinetiQ manages its sources and releases of F-gases from its UK operations (excluding subsidiary entities) through an F-Gas Register that is governed under the ISO14001 certified Environmental Management System and ISO50001 certified Energy Management System. These sites are therefore subject to both internal and 3rd party audits of their F-Gas records. The F-Gas register is integrated into the Asset Management System. Systems containing F-gases are subject to a range of routine maintenance inspections. All refrigerant losses, including those identified during system inspections, are recorded against the system in the Asset Management System. The majority of systems are inspected annually, however no assumed leakage rate is applied to systems that are not subject to an annual inspection within the reporting year and instead the quantity of lost gas will be captured and reported within the reporting year in which the inspection occurs. This decision follows analysis to extrapolate the average loss rate observed across the F-Gas register to the specific systems not subject to at least an annual inspection and concluding it amounted to a negligible quantity of emissions. Given the small impact, and that all losses from these systems will eventually be reported within the year the inspection occurs, the method adopted is therefore to not assume an average yearly leakage rate.

iii. Transport

Scope 1 transport emissions across the QinetiQ Group extend to the following:

- Vehicles owned or leased by the QinetiQ Group (including subsidiary entities)
- Vehicles hired for longer than 14 days by the QinetiQ Group (including subsidiary entities)

Exclusions to the Scope 1 transport emissions include:

- Short term hires (less than 14 days)
- Employee-owned vehicles

Both of which fall within Scope 3 emissions sources which are currently not included in the Annual Report.

Transport data for QinetiQ UK is obtained from the QinetiQ Vehicle Insurance Database which contains records of all vehicles within Scope 1 as defined above. This database contains either the distance travelled by each vehicle (typically road going vehicles) or the hours of use (typically Non-Road going Mobile Machinery (NRMM)). This database is maintained by the QinetiQ Transport team and is subject to internal spot checks.

For other legal entities within the QinetiQ Group, mileage records are the primary calculation methodology, and in the absence of this, historical data is used to prorate estimated mileage per annum. When no historic mileage is available, an average figure is taken from an equivalent category of vehicle and fuel type elsewhere in the QinetiQ Group.

- Scope 1 emissions are calculated based on the type of vehicle record (distance or hours of use) and using the relevant emissions factor from the UK Government GHG Conversion Factors for Company Reporting.

Mileage from company-owned electric vehicles is not included in these calculations. All company owned electric vehicles are currently only charged with electricity on company-owned sites. The electricity used to charge these vehicles is already therefore included in the total energy consumption for each site, and these emissions are calculated elsewhere.

iv. Detonation of explosive material

QinetiQ operations involve the detonation of explosive material which results in the release of a small proportion of greenhouse gas emissions. Given the nature of the material, it is subject to regulation and underpinned by robust governance and internal controls to accurately monitor the quantity of explosive material passing through the organisation.

QinetiQ uses an internally developed database (QinetiQ Munitions Accounting System – QMAS) to catalogue and track the movement of explosive material from receipt through to disposal. The QMAS system complies with the requirements of the Health & Safety Executive with respect to the handling of explosive material, and is a key system operating within the QinetiQ ISO45001 certified Health & Safety management system, and ISO9001 certified Quality Management system. The QMAS system itself is certified to the TickIT+ standard for databases.

Data on the total quantity and type of explosive material disposed of throughout the reporting period is extracted from QMAS. This data is categorised into the 7 Groups as presented in Table 2:

The emissions factor from a representative explosive type for each Group is applied for all explosives within the Group. The representative explosive for each Group is identified by the QinetiQ Explosives Team and presented below in Table 2. The emissions factor for each representative explosive type is calculated in line with the **CEA2 Combustion Model** developed by NASA.

Table 2 Explosives Groups and Representatives

Explosives Group	Representative Explosive
C-NO2	TNT
N-NO2	RDX
O-NO2	PETN
Compound Explosives	C4
Polymer Bonded Explosives	PBX
Propellants	0.50 calibre cartridge
Pyrotechnics	Estimated 10% of propellant

The CEA2 combustion model was selected as the most appropriate model for the GHG reporting process by the QinetiQ Explosives Team who are subject matter experts in modelling and explosives. The output of the combustion model is collected in the form of total Kgs of CO₂, CH₄ and N₂O and multiplied by the relevant emission factor.

b) Scope 2 Emissions

i. Electricity

QinetiQ procures its UK electricity supplies centrally on a portfolio contract with an energy supplier. The consumption data and monthly bills for each supply are sent directly into our 3rd party Energy Bureau provider for validation and reporting. This process forms part of our ISO50001 certified Energy Management System, and is subject to both internal and external management system audit. Electricity consumption data for the reporting period is copied from the validated monthly bills and consolidated into a central record by QinetiQ. The majority of our electricity consumption included in our Group greenhouse gas report is covered by this process. Where data is not available via the system (primarily our subsidiary and international operations), it is collected using relevant templates provided by our Energy Team to local on-site teams.

A hierarchy is used for electricity data, with supplier invoices taking the highest priority, followed by half-hourly data and finally a pro-rata estimation technique whereby data from a comparable period e.g. days/weeks either side of the gap (accounting for weekends) is used to estimate consumption for the missing days.

The electricity consumption data is then converted using the UK government location base emissions factors (for UK operations), location based emissions factors utilise a grid average. QinetiQ currently report exclusively using location-based emissions for Scope 2.

c) Restatement Policy

Where information is available, we will restate prior year's figures using the latest available data to make data as comparable between years as possible. Where restatements have been made for specific indicators, these will clearly be outlined in our Annual Report. Restatements are considered necessary if there is a change to an individual performance metric of greater than 5% (our significance threshold). Restatements may be needed as a result of:

- a) Structural change: Where we experience a structural change (i.e. merger, divestment, acquisitions) to the scope of our reporting in future periods, we will recalculate the baseline (for data associated with targets) and other data as required, so that we can monitor our performance on a consistent basis.
- b) Methodology change: Changes in calculation methodology or improvements in the accuracy of emission factors or activity data, which result in a significant impact on the data.
- c) Corrections: Discovery of significant errors, or a number of cumulative errors, that are collectively significant.

5. Assurance

In addition to our own internal processes and governance, QinetiQ commissions independent 3rd-party limited assurance procedures over certain metrics in the annual greenhouse gas emissions report prior to publication in the annual accounts.

For the financial year ended 31st March 2025, PricewaterhouseCoopers LLP ('PwC') were appointed to perform limited assurance procedures on QinetiQ Group plc's Scope 1 and Scope 2 greenhouse gas emissions data and the intensity ratio (normalised against Group revenue) in accordance with the International Standard on Assurance Engagements ISAE 3000 (Revised) Assurance Engagements other than Audits or Reviews of Historical Financial Information, and the International Standard on Assurance Engagements 3410 'Assurance engagements

on greenhouse gas statements'. Results of this assurance process can be located on our company website here:
<https://www.qinetiq.com/en/our-company/corporate-responsibility/climate-change>