QTS

Greenhouse Gas Inventory for Year 2025



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QTS Group is on a journey to reduce its scope 1 and 2 greenhouse gas (GHG) emissions by 42% by 2030 from a baseline year of 2020, and its scope 3 GHG emissions by 25% by 2030 from a baseline year of 2022.

1. Descriptive Information

QTS Group Ltd is one of the UK's leading Rail Contractors, providing specialist services in Rail Engineering, Infrastructure, Electrification, Design and Training. This report considers all emissions associated to the company's operation, including QTS Group, QTS Training and Rail Electrification.

The report shall cover direct and indirect emissions produced as a result of QTS operations between 1st January 2025 and 31st December 2025. A screening for scope 3 emissions from all business activity has been undertaken and the results will be displayed within this document. No emissions have been excluded across scopes 1 and 2, while scope 3 covers all upstream scope 3 categories. Downstream scope 3 categories have been excluded as QTS does not undertake any operations in relation to these. Scope 1 and 2 emissions have a baseline year of 2020, while scope 3 emissions are baselined against the year 2022.

Baseline emissions data are included in this report. Our baseline recalculation policy is available to view on our website.

2. Greenhouse Gas Emissions Data (tCO_2e)

Table 1 presents a summary of the total emissions produced by QTS in 2025. All emissions are reported as tonnes of carbon dioxide equivalent (tCO_2e), which includes the following greenhouse gases:

- Carbon dioxide (CO_2e)
- Methane (CH_4)
- Nitrous oxide (N_2O)
- Hydrofluorocarbons (HFCs)
- Perfluorocarbons (PFCs)
- Sulphur hexafluoride (SF_6)

Table 1: Summary of QTS 2025 Emissions

Scopes and Categories	Emissions (tCO_2e)
Scope 1: Direct Emissions from Operations	5,179
Scope 2: Indirect Emissions from Use of Purchased Electricity	0
Upstream Scope 3 Emissions	
Category 1: Purchased Goods and Services	21,418
Category 2: Capital Goods	15,221
Category 3: Fuel and Energy Related Activities (not included in scope 1 & 2)	823
Category 4: Upstream Transportation and Distribution	1,190
Category 5: Waste Generated in Operations	215
Category 6: Business Travel	511
Category 7: Employee Commuting	526
Category 8: Upstream Leased Assets	2,177
Downstream Scope 3 Emissions	
Category 9: Downstream Transportation and Distribution	0
Category 10: Processing of Sold Products	0
Category 11: Use of Sold Products	0
Category 12: End of Life Treatment of Sold Products	0
Category 13: Downstream Leased Assets	0
Category 14: Franchises	0
Category 15: Investments	0

Biogenic CO_2e Emissions Data

QTS Group currently have no activities or operations which produce biogenic emissions.

Description of Methodologies and Data Used

Table 2 and Table 3 provide an overview of the approach taken to calculate scope 1, 2 and 3 emissions, including, sources of data, data quality, methodology and value chain provided data.

Table 2: Overview of the methodologies used to calculate Scope 1 and 2 emissions

Scopes and Categories	Methodologies used to calculate/Measure emissions
Scope 1	Emissions are calculated from real data gathered on volume of fuels used and multiplied by the relevant conversion factors. Conversion factors are taken from the GOV UK Website for the relevant years (ghg-conversion-factors-2025-condensed-set.xlsx).
Scope 2	Emissions are calculated from real data gathered on kWh used, these are then multiplied by the relevant conversion factors. Conversion factors are taken from the GOV UK Website for the relevant years (ghg-conversion-factors-2025-condensed-set.xlsx).

Table 3: Overview of the methodologies and approach used to calculate scope 3 emissions

Scopes and Categories	Types and Sources of Data Used	Data Quality of Reported Emissions	Methodologies and Assumptions	% of Emissions Calculated by using Data Provided from the Value Chain
Upstream Scope 3 Emissions				
Category 1: Purchased Goods and Services	Spend data, QTS Procurement.	Moderate quality – spend based approach using relevant and up to date emission factors.	Calculated using spend data and applying relevant spend-based 2025 DESNZ emission factors.[1]	0%
Category 2: Capital Goods	Spend data, QTS Finance.	Moderate quality – spend based approach using relevant and up	Calculated using spend data and applying relevant spend-based	0%

[1] Department for Environment Food & Rural Affairs. (2025) Supply chain emission factors for spending on products [Online]. Available at https://carbonsaver.org/tools/carbon_factors_database.php (Accessed 17 April 2026)

		to date emission factors.	2025 DESNZ emission factors.[1]	
Category 3: Fuel and energy related activities (not included in scope 1 & 2)	Fuel/energy usage data. QTS Environment Team/Supplier data.	High Quality of data from reports, Resulting in accurate figures.	Real data used & multiplied by relevant conversion factors.ghg-conversion-factors-2025-condensed-set.xlsx)	100%
Category 4: Upstream transportation and distribution.	Spend data, QTS Procurement.	Moderate quality – spend based approach using relevant and up to date emission factors.	Calculated using spend data and applying relevant spend-based 2025 DESNZ emission factors.[1]	0%
Category 5: Waste Generated in Operations	Waste data. QTS Environment Team/ Supplier data.	High quality – actual data from reports, resulting in accurate figures.	Real data used & multiplied by relevant conversion factors.ghg-conversion-factors-2022-full-set.xls (live.com)	100%
Category 6: Business Travel	Expense Data, QTS Payroll.	High quality – however, averages are being used so emissions data if of moderate quality.	Business expenses paid divided by average mileage rate multiplied by relevant conversion factor.	0%
Category 7: Employee Commuting	Staff survey, QTS Environment Team.	Moderate quality – actual data used but based on averages and scaling factors due to limited employee survey responses.	Average commuting distance and fuel types of vehicles.	31%
Category 8: Upstream Leased Assets	Spend data, QTS Procurement.	Moderate quality – spend based approach using relevant and up to date emission factors.	Calculated using spend data and applying relevant spend-based 2025 DESNZ emission factors.[1]	0%
Downstream Scope 3 Emissions				
Category 9: Downstream Transportation and	No sold product	High quality.	No Sold Products. All	

Distribution	deliveries.		transportation is accounted for in Scope 1.	
Category 10: Processing of Sold Products	No sold products processing.	High quality.	No sold Products.	
Category 11: Use of Sold Products	No use of sold products.	High quality.	No sold Products.	
Category 12: End of Life Treatment of Sold Products	No end-of-life treatment for sold products	High quality.	No sold Products.	
Category 13: Downstream Leased Assets	No downstream leased assets.	High quality.	None.	
Category 14: Franchises	No franchises.	High quality.	No group franchises.	
Category 15: Investments	No investments.	High quality.	No group investments.	

3. Data Quality

QTS are aware that the quality of some scope 3 emissions data is not accurate or precise due to the raw data being based on spend. Scope 3 emissions have been calculated on a screening basis and are expected to change by more than 5% which will result in the baseline recalculation policy being triggered. Increased accuracy of scope 3 calculations is expected in the upcoming reporting years.

4. Baseline Greenhouse Gas emissions

Table 4 summarises the emissions associated to the QTS baseline emission years. For scopes 1 & 2 this is 2020 and for all scope 3 this is 2022.

As per the QTS Group Ltd Base Year Recalculation Policy, baseline recalculations have been undertaken for scope 3 emissions following updated methodologies detailed in Table 3. This is due to an improved methodology being implemented and an increase in data and emission factor accuracy.

Table 4: QTS Baseline GHG Emissions

Scopes and Categories	Emissions (tCO_2e)
Scope 1: Direct Emissions from Operations	7,521
Scope 2: Indirect Emissions from Use of Purchased Electricity.	204
Upstream Scope 3 Emissions	
Category 1: Purchased Goods and Services	22,062
Category 2: Capital Goods	15,971
Category 3: Fuel and Energy Related Activities (not included in scope 1 & 2)	404
Category 4: Upstream Transportation and Distribution	7,135
Category 5: Waste Generated in Operations	300
Category 6: Business Travel	89
Category 7: Employee Commuting	526
Category 8: Upstream Leased Assets	7
Downstream Scope 3 Emissions	
Category 9: Downstream Transportation and Distribution.	0
Category 10: Processing of sold products	0
Category 11: Use of Sold Products	0
Category 12: End of Life Treatment of Sold Products	0
Category 13: Downstream Leased Assets	0
Category 14: Franchises	0
Category 15: Investments	0

5. GHG Sequestration and Removals

QTS group have two forms of carbon sequestration on site at their head office, neither of which have any accreditation. One of these is a large woodland with around 90,000 trees. Based on research conducted by the QTS Environment Team, this woodland absorbs approximately 900 tCO_2 per annum. QTS also have any area of peatland on site where some restoration work has been undertaken. It is estimated that the peatbog captures 22.5 tCO_2 per annum. This doesn't consider avoided emissions through the restoration work.

6. Reduction Activities

QTS set approved Science Based targets in 2024, which include targets to reduce scope 1 and 2 emissions by 42% and scope 3 emissions by 25% by 2030. QTS Group further commits to continue active annual sourcing of 100% renewable electricity through 2030.

QTS have introduced the following measures in order to help achieve such targets:

- Increased usage of HVO;
- Trialling of hybrid power generation on site;
- Increasing size of EV and Hybrid fleet;
- Anti Vehicle Idling Campaign.

Scope 3 supplier engagement surveys are also planned to allow QTS to understand what stage suppliers are at in their journey to reduce emissions. It is also expected to highlight where we may need to put more focus in supporting business in their journey.

7. Policies and Assurance

QTS hold ISO accredited certifications 14001, 45001, 27001, 44001 & 9001. ISO 14001 helps to track the Environmental and Energy performance of QTS, which in turn results in savings of emissions/pollution events and more.

8. Ongoing Reporting and Monitoring

QTS shall report each year on GHG emissions in a report of a similar format to this. Additional information on emission reduction performance may be published on the company website and other social media throughout the year. The next annual emissions report shall be published by QTS no later than April 2027, which will include all emissions from the 2026 calendar year.