Quantum Comms Carbon Reduction Plan

Quantum Comms Group Ltd
Reporting year 1 November 2025 to 31 October 2026
Public disclosure version 1.2

Quantum Comms Group Ltd is committed to achieving net zero greenhouse gas emissions by 2050 at the latest. We will prioritise reductions in operational fuel, energy and resource use, monitor progress annually and address wider value chain emissions as our data improves.

Baseline and current emissions

FY2025/26 is the first baseline and the current reporting period. The estimated footprint is 130.27 tonnes of carbon dioxide equivalent (tCO2e). Both columns use the same year; no year on year reduction is claimed. The figures combine recorded fuel usage, management confirmed activity and disclosed estimates.

Emissions category	Baseline tCO2e	Current tCO2e
Scope 1 direct fuel and estimated gas	99.83	99.83
Scope 2 location based electricity including estimated EV energy	4.75	4.75
Scope 3 category 4 upstream transport	0.00*	0.00*
Scope 3 category 5 waste	13.75	13.75
Scope 3 category 6 business travel and accommodation	7.03	7.03
Scope 3 category 7 employee commuting	4.91	4.91
Scope 3 category 9 downstream transport	0.00*	0.00*
Scope 3 subtotal	25.69	25.69
Total estimated reported footprint	130.27	130.27

*Transportation categories are reported as nil on management's statement that deliveries are not applicable. The boundary assumes material collection in the company fleet, already included in fuel emissions, and no relevant externally provided freight or downstream distribution. Any subsequently identified external transport will be incorporated.

Figures are gross emissions before offsets. Totals use unrounded calculations. The inventory covers Scope 1, location based Scope 2 and Scope 3 categories 4, 5, 6, 7 and 9, with accommodation included in business travel. It is not the full value chain footprint.

The baseline remains an estimate: annual premises energy, waste treatment, commuting and vehicle energy/control rely on assumptions. Any unreported refrigerant leakage is unquantified. Director approval does not constitute independent verification or remove these limitations. No unconditional claim of full PPN 006 conformity is made.

Boundary methodology and estimate disclosures

The inventory covers Quantum Comms Group Ltd UK telecommunications and infrastructure operations using an operational control approach. Activities include network installation, cable works, fibre splicing, testing, commissioning and maintenance. Shared premises energy is included in full where controlled; no unsupported intercompany deduction is taken.

DESNZ 2026 full conversion factors are used because most of the reporting year falls in 2026. Emissions are calculated as activity multiplied by the relevant kgCO2e factor and divided by 1,000. Source records and detailed calculations are retained internally for review. No employee, customer or supplier records are attached to this public disclosure.

Source	Method and principal limitation
Fleet and generator fuel	Recorded diesel usage is converted using 2.58354 kgCO2e/litre. Generator fuel is included once. Supporting fleet mileage is not added again.
Premises gas	Estimated 6,494.4 kWh. Limited summer invoice data are modelled using four summer months at 1 times the reference month, four shoulder months at 3 times and four winter months at 8 times. These are assumed seasonal multipliers, not measured winter usage.
Premises electricity	Estimated 21,406.7 kWh. Annualised combined utility costs are apportioned using the gas model, then converted to electricity consumption using assumed charges and tariff. Cost allocation, tax basis and tariff are uncertain.
Electric vehicle energy	Current vehicle use is counted once. A distance based estimate of 1.945 tCO2e is included in Scope 2, assuming company operational control and purchased or reimbursed electricity. Private and commuting travel within that whole-year estimate is not added again. Control and charging data require reconciliation.
Other business car travel	A distance based average unknown-fuel car factor is used. Vehicle control and fuel type remain assumptions; figures will be reclassified or removed if already included in recorded company fuel.
Waste	Confirmed skip quantities use a commercial waste landfill scenario because treatment is unknown. This does not assert actual landfill disposal or establish a recycling rate. Paper/cardboard weight is estimated from collection volume, full bins and an assumed density of 60 kg/m^3; recycling is assumed.
Commuting	Estimated using aggregate travel activity, assumed attendance and a maximum local return distance. Company vehicle journeys already included in fuel or vehicle electricity are excluded to avoid double counting. No individual travel profiles are published.
Accommodation and other travel	UK hotel room nights use the 10.4 kgCO2e/room-night factor; whole houses use the same factor per occupied bedroom as a proxy. Rail, flights, taxis and hire cars are confirmed nil for the reporting year.

Diesel biogenic CO2 is reported separately outside the scopes: 5.345 tCO2. Upstream fuel and electricity emissions, purchased goods and capital goods are outside the reported subset. No scheme provider avoided-emission figures or offsets are deducted.

Environmental measures and reduction programme

Measures already operating

Operational waste is returned to the yard and separated. Suitable cable drums and blue rope are reused or upcycled. Electric cars are in use. These are existing measures; savings against an earlier verified baseline are not claimed.

The programme uses the company's document control, management review and corrective action arrangements. ISO 9001 relates to quality management and is not environmental certification or verification of this footprint.

Action	Responsible role and timing	Monitoring
Reconcile fuel and vehicle mileage monthly	Finance and fleet management; within 30 days of approval	Fuel by asset and fuel per 100 miles
Plan jobs geographically and consolidate visits	Operations management; within 60 days	Mileage, rework and avoidable return visits
Brief drivers on idling, smooth driving and tyre checks	Fleet management; within 60 days	Briefing completion and fuel trend
Review lower emission vehicles at replacement	Directors and fleet management; annually	Range, payload, charging and whole-life business case
Reconcile annual utilities and vehicle charging	Finance; within 90 days	Metered or billed kWh and charging records
Review lighting, heating controls and shutdowns	Premises management; within 90 days	Energy actions and monthly consumption
Record waste weights and confirmed treatment	Yard management; within 30 days	Collection evidence and waste register
Reduce offcuts and reuse serviceable materials safely	Operations and yard management; ongoing	Material losses and reuse records
Improve commuting and travel records	Compliance and Finance; within 90 days	Anonymous commuting information and annual travel register
Review transport boundary with key suppliers	Procurement; within 120 days	Supplier transport evidence and relevant emissions

Project managers will plan travel, plant, material availability and waste at mobilisation and record activity consistently. Emissions reduction measures must meet safety, technical and customer requirements. Fuel substitutions and new equipment require compatibility checks and a sound business case.

Monitoring

Records will be collated monthly and reviewed quarterly. Management will assign owners and deadlines to data gaps and underperformance. Calculations will receive a second person check for units, factors, boundaries and duplicate counting. No staff home addresses are needed for the aggregate commuting inventory.

Public methodology references

UK Government greenhouse gas reporting conversion factors 2026
https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2026

Cabinet Office PPN 006 technical standard for completion of Carbon Reduction Plans
https://www.gov.uk/government/publications/ppn-006-taking-account-of-carbon-reduction-plans-in-the-procurement-of-major-government-contracts/ppn-006-technical-standard-for-completion-of-carbon-reduction-plans-html

Targets approval and annual review

Milestone	Commitment
Within 90 days of approval	Improve the evidence for energy, vehicle control, commuting and waste treatment; revise the baseline transparently where necessary.
Year ending 31 October 2027	Target a 5% improvement in fleet fuel per 100 miles and a 5% reduction in premises kWh against reconciled data, explaining workload and occupancy changes.
Year ending 31 October 2031	Target a 20% absolute reduction from the estimated FY2025/26 baseline: 26.05 tonnes, giving a provisional ceiling of 104.21 tCO2e.
2050 at the latest	Achieve net zero, prioritising deep direct and value chain reductions and disclosing treatment of residual emissions separately.

The targets are company commitments adopted through director approval, not government mandated percentages or a validated science based pathway. If the baseline is corrected, the numerical target will be recalculated consistently while retaining the 20% ambition.

Uncertainty and correction

Waste treatment is a material uncertainty. If the skip waste followed the generic recycling or combustion route instead of the landfill scenario, estimated total emissions would fall by approximately 13.62 tCO2e. This is a scenario, not a claim of achieved savings. Energy modelling, commuting assumptions and vehicle control may also change reported totals. The estimate is not a statistical confidence interval or an assurance that unquantified sources are immaterial.

The baseline will be recalculated for corrections or structural changes affecting total emissions by 5% or more, or materially changing a scope or target assessment. Changes and their reasons will be disclosed. Normal business growth does not itself reset the baseline.

Director approval

Director approval of the underlying plan has been confirmed by the company. This public disclosure retains its emissions totals, targets and material limitations while omitting private supporting records and commercially sensitive detail.

Approval detail	Publication record
Approving director name	Hayley Castles
Job title	Director
Approval date	5 November 2026
Signed status	Director sign-off confirmed by the company; no handwritten signature reproduced

Approved and signed off on behalf of Quantum Comms Group Ltd by Hayley Castles, Director, on 5 November 2026. The company retains its internal approval evidence. No signature image, private contact details or individual employee travel records are included in this disclosure.

Review and publication

Publish the final approved disclosure on the company UK website with a prominent homepage link. Review annually within six months of the financial year end; the next review is due by 30 April 2027. Retain previous published versions so progress and corrections can be understood.