



Carbon Reduction Plan



June 2022

Carbon Reduction Plan

QTS Group Ltd

Publication date: 20th June 2022

Commitment to achieving Net Zero

QTS Group is passionate about the environment and we are committed to increasing our sustainability as a business. The effects of climate change are increasingly visible and we are committed to taking measures to offset the impact of our operations. We seek to do this through governance, risk management, innovative working practices and education. Our commitment to wider sustainable development goals, including social value, are also very important to us. There are social benefits to everything we do, and we are committed to supporting our local communities.

QTS Group Ltd is committed to achieving Net Zero emissions by 2050

Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

Baseline Year: 2020	
Additional Details relating to the Baseline Emissions calculations.	
Scope 3 emissions not currently assessed	
Scope 1 emissions are net of on-site woodland carbon capture	
Baseline year emissions:	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	6,621
Scope 2	204
Scope 3 (Included Sources)	135,172
Total Emissions	141,997

Current Emissions Reporting

Reporting Year: 2021	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	6,786
Scope 2	196
Scope 3 (Included Sources)	139,227
Total Emissions	146,189

Emissions Reduction Targets

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

We project that carbon emissions will decrease over the next five years to 500 tCO₂e by 2026. This is a reduction of 7.2%

Further details of specific targets are included in the QTS Group Carbon and Energy Management Targets 2021.

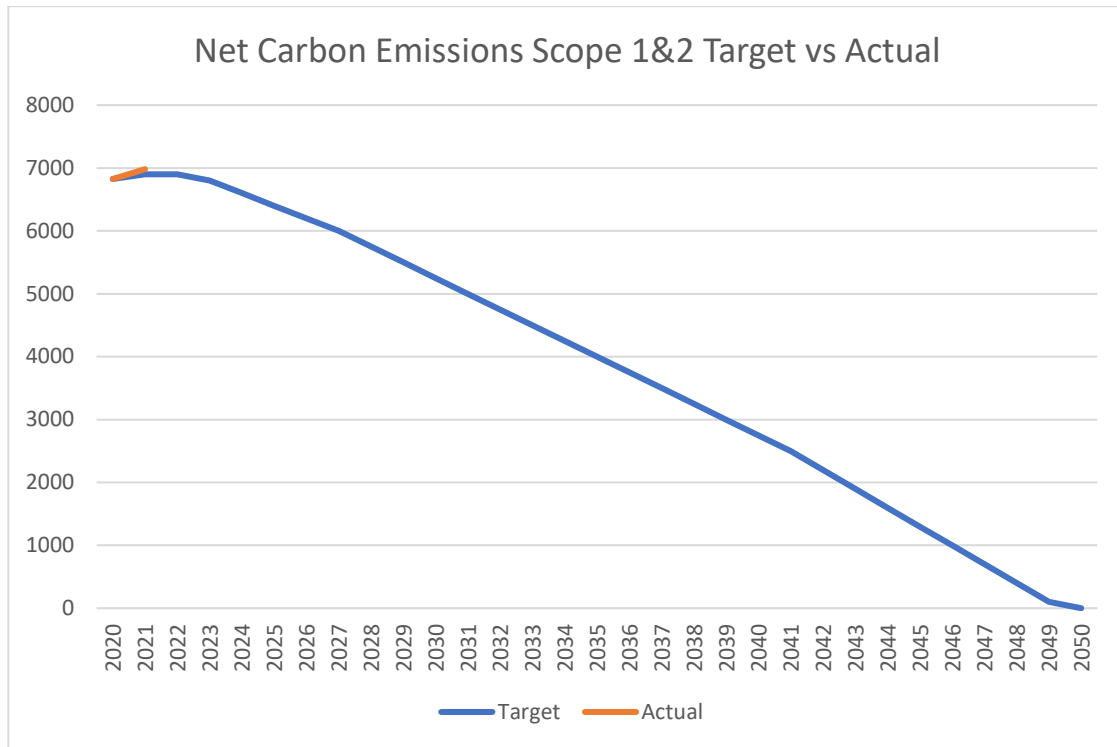
Aspect	Description	Unit of measure	Baseline	Baseline Year	Target	Target Year	Notes on Target	Risk / Opportunity Addressed
Vehicle Fleet	Weighted average annual CO2 emission per vehicle	Kg CO2 pa	7939	Jan-19	7500	Jan-21	Reduction achieved through vehicle replacements and improved allocation	Efficiencies to remain competitive. Future scarcity and price rises.
Vehicle Fleet	Weighted average annual CO2 emission per vehicle	Kg CO2 pa	7939	Jan-19	7400	Jan-22	Reduction achieved through vehicle replacements and improved allocation	Efficiencies to remain competitive. Future scarcity and price rises.
Vehicle Fleet	Mileage weighted CO2 emission per km	g CO2/Km	185	Jan-19	167	Jan-21	Reduction achieved by replacement with more efficient vehicles	Fuel scarcity, price rises. Climate change
Vehicle Fleet	Mileage weighted CO2 emission per km	g CO2/Km	185	Jan-19	167	Jan-23	Reduction achieved by replacement with more efficient vehicles	Fuel scarcity, price rises. Climate change
Commercial vehicle usage	All fuel and energy usage	GJ per EM turnover	835	2018	814	2021	2.5% reduction achieved through part year of vehicle replacements and improved allocation	Efficiencies to remain competitive. Future scarcity and price rises.
Commercial vehicle usage	All fuel and energy usage	GJ per EM turnover	835	2018	793	2022	5% reduction achieved through vehicle replacements and improved allocation	Efficiencies to remain competitive. Future scarcity and price rises.
Commercial vehicle usage	All fuel and energy usage	GJ per EM turnover	835	2018	773	2022	2.5% reduction achieved through vehicle replacements and improved allocation	Efficiencies to remain competitive. Future scarcity and price rises.
Commercial vehicle operation	Electric vehicle mileage	Miles	0	2018	2500	2020	Procure vehicle and monitor use, limited due to Covid occupancy restrictions	Future scarcity of non renewables
Commercial vehicle operation	Electric vehicle mileage	Miles	0	2018	5000	2021	Full implementation of electric vehicle for Rench Stores	Future scarcity of non renewables
Commercial vehicle operation	Electric vehicle mileage	Miles	0	2018	25000	2022	Five vehicles for 1 year, Compliance and Projects team	Future scarcity of non renewables
Office Energy Use	Gas, electricity and oil use	GJ per EM turnover	43.8	2018	41	2020	Implement basic efficiency measures (5% savings), some remote working	Efficiencies to remain competitive. Future scarcity and price rises.
Office Energy Use	Gas, electricity and oil use	GJ per EM turnover	43.8	2018	40	2021	Assess and implement efficiency measures (lighting, insulation, controls) Adapt controls to take account of staff working remotely	Efficiencies to remain competitive. Future scarcity and price rises.
Office Energy Use	Gas, electricity and oil use	GJ per EM turnover	43.8	2018	38	2022	Continue to implement efficiency measures (lighting, insulation, controls). Continue to review opportunities for staff to work remotely	Efficiencies to remain competitive. Future scarcity and price rises.
Office Energy Use	Gas, electricity and oil use	GJ per EM turnover	43.8	2018	36	2023	Continue to implement efficiency measures (lighting, insulation, controls). Continue to review opportunities for staff to work remotely	Efficiencies to remain competitive. Future scarcity and price rises.
Site Energy Use	Fuel use for site facilities and works on site	GJ per EM turnover	301	2018	293	2019	2.5% reduction through implementation of basic efficiency measures including reduced idling time, staff awareness, more efficient machines	Efficiencies to remain competitive. Future scarcity and price rises.
Site Energy Use	Fuel use for site facilities and works on site	GJ per EM turnover	301	2018	285	2020	Further 2.5% reduction including phased machine replacement, operator training, site accommodation efficiencies.	Efficiencies to remain competitive. Future scarcity and price rises.
Site Energy Use	Fuel use for site facilities and works on site	GJ per EM turnover	301	2018	278	2021	Further 2.5% reduction including phased machine replacement, operator training, site accommodation efficiencies.	Efficiencies to remain competitive. Future scarcity and price rises.
Site Energy Use	Fuel use for site facilities and works on site	GJ per EM turnover	301	2018	264	2022	5% reduction including upgraded generators and phased machine replacement, operator training, site accommodation efficiencies.	Efficiencies to remain competitive. Future scarcity and price rises.
Power generation	Rench solar pv system	KwH	28077	2014	20000	2020	Restore efficiency to 90% of installed performance. Target allows for part year at reduced performance, reset due to Covid delays	Future scarcity of non renewables
Power generation	Rench solar pv system	KwH	28077	2014	20000	2021	Restore efficiency to 90% of installed performance. Target allows for part year at reduced performance, reset due to Covid delays	Future scarcity of non renewables
Power generation	Rench solar pv system	KwH	28077	2014	25000	2022	Restore efficiency to 90% of installed performance. Reset due to Covid delays	Future scarcity of non renewables
Power generation	Rench solar pv system	KwH	28077	2014	25000	2023	Expand solar pv system at Head Office/IRATA training site	Future scarcity of non renewables
Commercial vehicle usage AND Managers cars used on business	Fuel efficient driver training	No. Drivers trained per year	32	2015	0	2021	Plan postponed due to covid restrictions	Efficiencies to remain competitive. Future scarcity and price rises.
Commercial vehicle usage AND Managers cars used on business	Fuel efficient driver training	No. Drivers trained per year	32	2015	32	2022	Plan to return to previous maximum. Subsidised training available in Scotland. Feed in to future fleet fuel usage.	Efficiencies to remain competitive. Future scarcity and price rises.

Initiatives to meet these targets include:

1. Improved monitoring and reporting on key areas of energy usage. Monthly reports for Operations Managers and Directors. Calculation of vehicle MPG figures.
2. Assess opportunities for a proportion of office-based staff to continue to work from home.
3. Introduction of Driver Rewards scheme as incentive for good driving.
4. Update surveys of all permanent office and depot sites for energy generation and energy saving/efficiency opportunities. Develop basic energy savings opportunities and incorporate into action plan and targets.
5. Further development of Teleconferencing facilities at Rench and Linby offices and roll out to other offices.
6. Further development of monitoring systems for commercial vehicle fuel use (owned fleet and hired).
7. Speed limiters to be fitted to all commercial vehicles including hired vans.
8. Programmed replacement of light commercial vehicle fleet with more efficient vehicles.
9. Develop plan for introduction of further electric vehicles and further charging points.
10. Staff energy savings campaign includes office and site works.
11. Assess site energy usage and monitor or sample site accommodation energy use.
12. Rench solar PV system repairs, maintenance and monitoring system.
13. Fuel efficient driver training programme subject to removal of current driving restrictions.



Progress against these targets can be seen in the graph below (Scope 1 and 2 Emissions Only)



Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2020 baseline. The carbon emission reduction achieved by these schemes equate to 250 tCO₂e, a 2.9%ge reduction against the 2020 baseline and the measures will be in effect when performing the contract:

- Introduction of HVO Fuel for plant use
- Trial of hybrid working for office staff (ongoing)
- Continued ISO 50001 Certification
- Continued ISO 14001 certification
- Completed SBTi commitment to achieve net zero by 2050
- Introduced 3 x additional electric vehicles
- Installed EV chargers at all permanent office locations
- Converted to renewable electricity tariffs (2022 on)
- Replaced lighting with LED units
- Trialled use of solar powered site lighting
- Installed solar PV system at head office

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

- Install further EV chargers
- Replace light commercial vehicle fleet with electric vehicles within 2 x replacement cycles
- Increase use of HVO fuels
- Develop electric and hydrogen electric powered plant and machinery
- Complete replacement of fixed lighting with LED units
- Develop and implement use of solar powered site lighting
- Increase installed electricity micro generation capacity
- Roll out use of variable speed site generators

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 standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².

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) Standard³.

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

Signed on behalf of QTS Group Ltd:



Iain Kirk, Compliance Director

(On behalf of the QTS Board of Directors)

Date: 20th June 2022

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>