

Carbon Reduction Plan (CRP)

Supplier name: TQC Ltd

Publication date: 20th February 2023

Commitment to achieving Net Zero

TQC 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: 2018

Additional Details relating to the Baseline Emissions calculations.

There are no prior Scope 3 baseline emissions calculations. TQC is an SME and as such had not needed to report a CRP previously. However, this does not mean that TQC have not already been engaged in carbon reduction efforts and do not have a plan to reduce further.

Our actions to date are: -

- TQC has already changed a third of the company car fleet to electric vehicles with plans to change the other vehicles to either electric or hybrid as the leases come up for renewal. Currently TQC has 2 electric vehicles, one hybrid and 4 diesel company vehicles. First electric vehicles were obtained in 2020 as these were the highest mileage vehicles. Calculated to have saved 15,000 Kg Co2 p.a. based on the 3 vehicles travelling 40,000 miles p.a.
- Project to install energy efficient air source heating has been completed allowing TQC to remove heavy oil boilers from the premises. Project completed in 2020. Calculated to have saved 18,000 Kg CO2 p.a. from attached independent report.
- Project to install low energy Lighting throughout the company has been completed to further reduce our electricity consumption. Project Completed in 2021. Calculated to have saved 2,000 Kg CO2 p.a.

We believe that the above has already saved TQC 35,000Kg CO2 p.a., one quarter of the consumption prior to 2018, taking us down from an annual consumption of 135,000 Kg p.a. CO2 to the current 101,000 Kg p.a.

Baseline year emissions:

We have attached independent reports on our scope for carbon reduction from the Accelerating Carbon Reduction Team at the D2N2 LEP. These reports have been used to estimate our total CO2 emissions, historically and into the future.

EMISSIONS	TOTAL (CO₂e) Calculated at 135,000 Kg CO ₂
Scope 1	Building heating load, calculated to be 59,000 Kg CO ₂ p.a.
Scope 2	Building power load, calculated to be 47,000 Kg CO ₂ p.a.
Scope 3 (Included Sources)	Transport usage, calculated to be 29,000 Kg CO ₂ p.a.
Total Emissions	135,000 Kg CO ₂ p.a.

Current Emissions Reporting

Reporting Year: 2023	
EMISSIONS	TOTAL (CO₂e)
Scope 1	Building Heating load, calculated to be 42,000 Kg CO ₂ p.a.
Scope 2	Building Power load, calculated to be 46,000 Kg CO ₂ .p.a.
Scope 3 (Included Sources)	Transport usage, calculated to be 13,000 Kg CO ₂ p.a.
Total Emissions	101,000 Kg CO ₂ p.a.

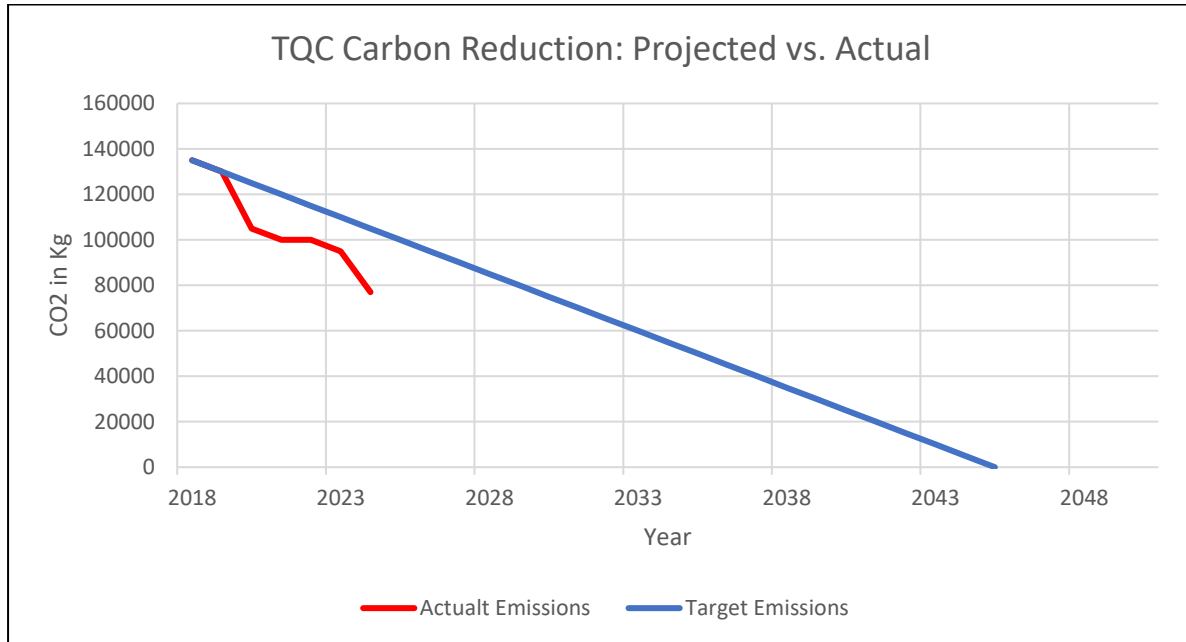
Emissions reduction targets

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

1. Replace remaining heating load with air source space heating. This is calculated to reduce our carbon load by 23,475 Kg p.a.
2. Add external cladding insulation to the main façade of our office building. This is calculated to reduce our carbon load by 261 Kg p.a.

3. Install Solar PV panels on the roof of our building. The reduction in carbon load is estimated to be 3,468 Kg p.a.

We project that carbon emissions will decrease over the next five years to 73,000 Kg CO₂ p.a. by 2027. This is a reduction of a further 27% and will be a total reduction of 46% since 2018. Historical progress and progress against these targets can be seen in the graph below:



Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2018 baseline. The carbon emission reduction achieved by these schemes equate to 62,000 Kg CO₂e, a 25 %ge reduction against the 2018 baseline and the measures will be in effect when performing the contract

In addition to the above, TQC has several recycling and reusing initiatives in place, further reducing our environmental impact and carbon footprint.

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

1. Further electrification of the TQC vehicle fleet.
2. Further insulation of our building fabric
3. Further introduction of smart energy controls
4. Potential battery storage for the planned Solar PV system

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

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.

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

Signed on behalf of the Supplier:

A handwritten signature in blue ink, appearing to read 'MCF', with a horizontal line underneath it.

Managing Director, TQC Ltd

Date: 20th February 2023.