

Carbon Reduction Plan

Supplier name: **BAQUS Group Ltd**

Publication date: January 2023

Commitment to achieving Net Zero

BAQUS 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: 2019/20	
Additional Details relating to the Baseline Emissions calculations.	
<p>This is Baqus Group Ltd's first report on emissions. The baseline year of 2019 was set to more accurately reflect energy use, business travel and employee commuting, given the effects of the pandemic on working practices over the last two years.</p> <p>Baqus have previously monitored and recorded emissions and environmental impacts in accordance with ISO 14001 certification for Scopes 1 and 2, this has now been extended to Scope 3 activities.</p>	
Baseline year emissions:	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	8.519
Scope 2	15.147
Scope 3 (Included Sources)	33.162
Total Emissions	56.829

Current Emissions Reporting

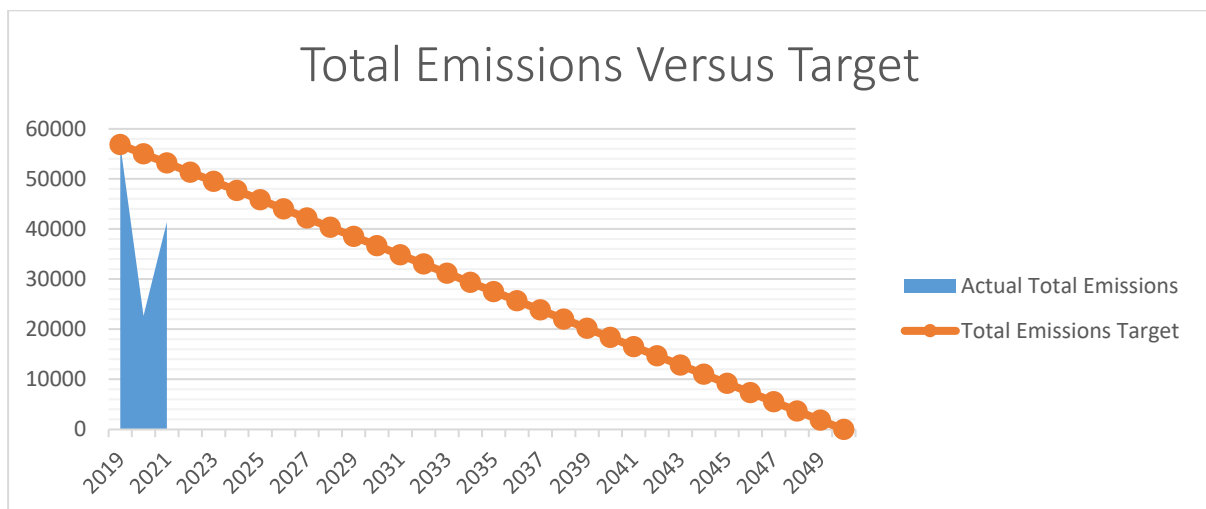
Reporting Year: 2021/22	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	6.120
Scope 2	11.116
Scope 3 (Included Sources)	24.151
Total Emissions	41.387

Emissions reduction targets

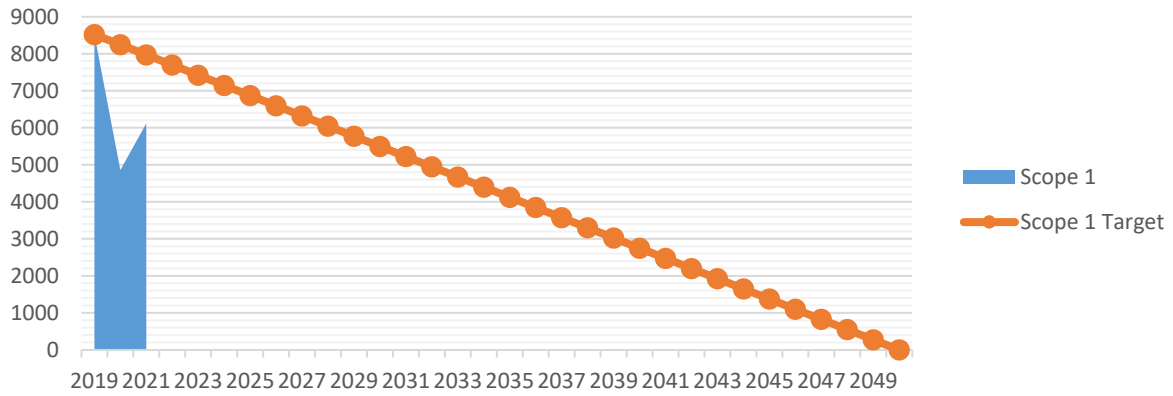
In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets.

We project that carbon emissions will decrease over the next five years to 32 tCO₂e by 2027. This is a reduction of 22.68

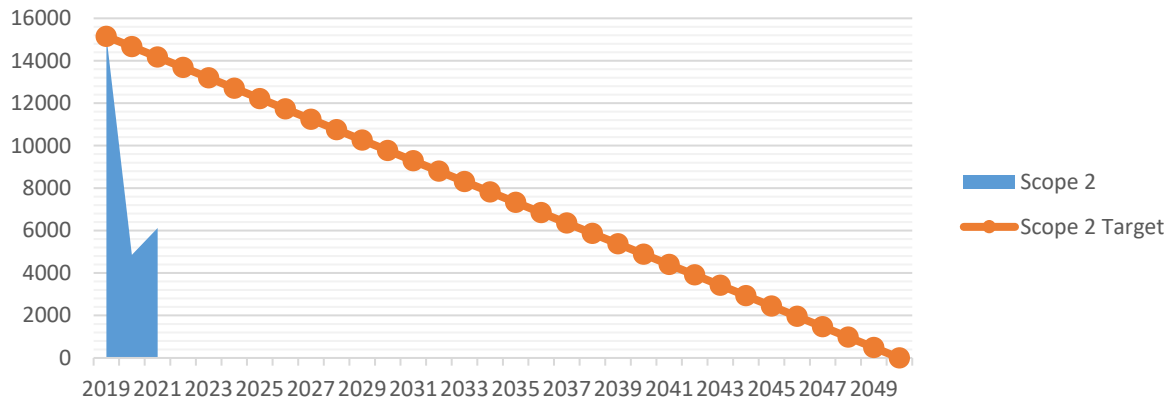
Progress against these targets can be seen in the graph below:



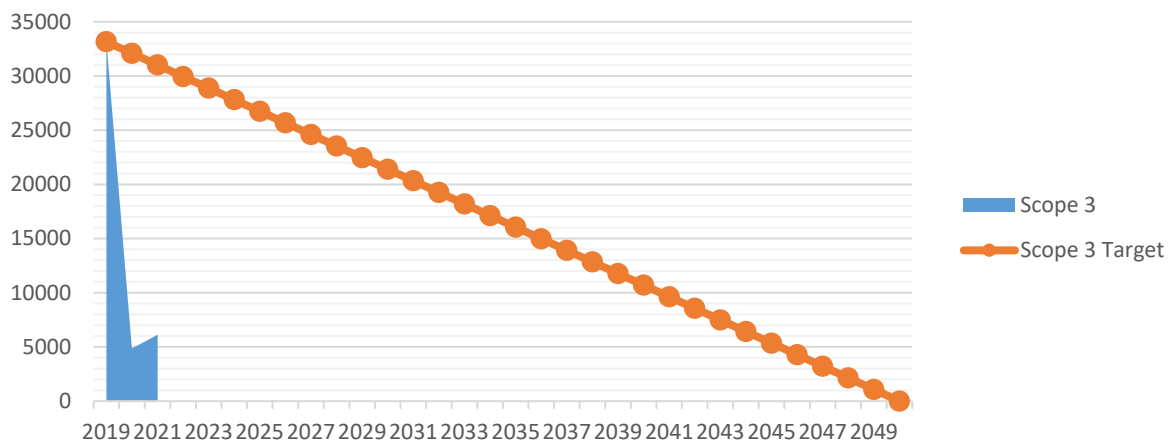
Scope 1 Emissions Versus Target



Scope 2 Emissions Versus Target



Scope 3 Emissions Versus Target



Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2019 baseline. The carbon emission reduction achieved by these schemes equate to 15 tCO₂e, a 27.17% reduction against the 2019 baseline and the measures will be in effect when performing the contract

Environmental Management Measures – BAQUS Group Ltd

The following existing measures apply: Certification to ISO14001 (original certification achieved in 2010).

Our environmental management system (EMS) includes policies, standards, guidance and processes to identify and reduce environmental impacts, including carbon emissions.

As an Organisation BAQUS has conducted an in-depth risk and impact review of its premises, operational locations, staff / contractor activities and products and services in order to establish the Environmental Aspects and their associated impacts on the environment.

BAQUS has determined the issues it could influence, control, or prevent in order to build a life-cycle improvement opportunity.

The overall environmental targets that BAQUS has set itself, are as follows:

- To promote sound environmental management policies and practices throughout the Organisation;
- To make efficient and environmentally responsible use of energy and water;
- To promote environmentally responsible procurement of goods and services;
- To minimise waste production as far as is practicable, to reuse or recycle waste where appropriate and to regulate the treatment and disposal of residual waste;
- To reduce and, where practicable, prevent pollution;
- To minimise the impact of transport on the environment arising from its own vehicles;
- To maintain the Organisation's premises in an environmentally sensitive way;
- To minimise the adverse environmental impact of the decommissioning and disposal of Organisation assets;
- To raise awareness of staff of the Organisation's environmental impact, activities and performance and to promote individual good practice

Our approach is progressively to reduce consumption and eliminate or minimise generation of waste by implementing the 'good practices' identified in the current EMS. Unless otherwise indicated elsewhere, the time parameter for all elements is rolling annual improvement.

In our offices we have implemented the following processes and initiatives to reduce our emissions as following examples;

- Nominating an employee as 'Sustainability Champion'
- Undertaking energy audits of our offices
- Using video conference technology to reduce travel / hybrid working
- Electric company cars with emission limit of 50g/km, salary sacrifice scheme has been implemented
- Cycle to Work Scheme available to all employees
- Purchasing from sustainable sources, i.e. our current stationery supplier is a Green Initiative supplier
- Confidential Waste collected for shredding by a company that turn paper into trees as part of the Carbon Capture Programme.
- Ensuring the use of electricity from green energy providers where possible
- Using heating, cooling and lighting systems as effectively as possible
- Reducing paper-consumption and the use of plastics
- Recycling waste paper/plastics/metals, consumables and samples
- Recycling IT equipment and re-use in other offices
- Reusing and recycling furniture when refurbishing offices
- Issuing invoices / project documents electronically where possible

Helping Clients / Projects

We provide environmentally-responsible specifications for the projects we are involved in and reduce carbon emissions by:

- incorporating high levels of insulation, renewable energy and considering community energy where practicable
- specifying locally-sourced materials with low, embodied carbon where practicable
- considering cycle and pedestrian routes, cycle storage, public-transport access and electric vehicle provision
- considering the re-use of buildings and building material

Project Examples:

- Working with a Residential developer where we have benchmarking of new low carbon technologies such as direct electric boilers and air source heat pumps. We have also created a tool for their use when looking at the TM59 Overheating requirements where we have priced numerous options in dealing with overheating to residential units
- We are increasingly advising our clients and their contractors on different external fabric and heating solutions to save energy. We led the delivery of a Code 5 scheme with a Local Authority where air tight houses incorporating PV panels have resulted in very warm homes, with no draughts and very low heating bills.
- At a local Hospice, it was our suggestion that the contractor cleared the wood waste and foliage to a recycling composting Company called Earth Cycle run by the Woodhorn Group. This resulted in the removed trees being diverted from landfill and created recycled compost which in turn protects the local ecosystem, negating the harvesting from peat bogs.
- For a £13m Code 4 scheme for a Care Home/Assisted Living, we reviewed the construction technique and supported a move away from traditional construction to a quicker Precast column and insitu slab frame system using a metsec external walling system– forming a highly insulated envelope to meet Code and energy saving drivers. This solution resulted in a quicker build and less waste on site.

Post occupancy evaluations

We have made a commitment to undertaking post occupancy evaluation on three of our completed buildings each year, sharing the findings with our clients to improve the design and sustainability performance of future buildings.

Qualified team

We are strengthening our team all the time and now have several in-house qualified Passivhaus assessors. We are analysing some of our current projects to explore how we can help our clients meet and exceed the forthcoming regulatory changes and performance targets set by the differing net zero definitions.

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

In the future we will continue to develop projects around the above themes of supplier engagement, business travel emissions reduction and efficient operations. We will also embed wider sustainability considerations into our business operations, empower our colleagues to lead by example, and convene ecosystems that will enable us to accelerate climate action across the sectors in which we operate.

- Company cars to be fully electric
- Installation of electric car charging points at Baqus offices
- Encouraging employees with electric vehicles to use a green tariff
- Reducing IT Co2 by using green server hosting
- Using Ecosia search engine (plant trees whilst you search the web)
- All documents to be issued electronically
- Encouraging new ideas to benefit the environment, improving employee engagement
- Contributing to Tree planting (e.g. through Forest Carbon)
- Providing shower facilities and secure bike racks to encourage cycling to work
- Develop a training schedule for our supply chain, using in-house training, Supply Chain Sustainability School, etc.
- Requiring our suppliers to confirm their commitment to achieving Net Zero by 2050

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 the Supplier:



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Date: 24.01.23

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>