



Carbon Reduction Plan

<i>Publication Date</i>	<i>Review Date</i>	Our carbon reduction plan covers the operational activities of Gigaclear and its affiliated supply chain partners and has been prepared in response to the requirements of the Procurement Policy Note 06/21.
February 2022	February 2023	

Commitment to achieving Net Zero:

Gigaclear is a progressive and ambitious organisation that is dedicated to doing the right thing for the environment and the communities we work within as we deliver our ultrafast full fibre broadband to homes and businesses across the UK.

We are committed to playing our part in the decarbonisation of the fibre sector to provide a greener and more sustainable future aiming to achieve net zero emissions by 2045.

What is Net Zero:

Net zero simply refers to the balance between the amount of greenhouse gas produced and the amount removed from the atmosphere. We reach net zero when the amount we add is no more than the amount taken away.

As part of the Paris Agreement in 2015 many of the world's governments committed to keep global warming 'well below 2 degrees Celsius' and 'make efforts' to keep it below 1.5°C.

In June 2019 the UK became the first major economy to pass legislation that commits the country to net zero emissions by 2050. To achieve this it requires direct action by organisations, such as ours, to take steps to reduce emissions we create directly and by those of our supply chain.

Why target Net Zero:

Evidence shows that our planet has been getting hotter. The warmest 20 years on record have been in the last 22 years (since records began 160 years ago) according to the World Meteorological Organisation, and the warmest four ever were all very recent from 2015 to 2018.

Global average temperatures are now 1°C higher than in the pre-industrial era.

A degree doesn't sound like much but this incremental warming is already having a significant negative impact and if the trend continues without intervention global temperatures are predicted to increase by as much as 3-5°C by 2100.

Even with a 1°C rise in global temperatures the effects of climate change have already created erratic weather patterns causing heatwaves, floods and severe storms, loss of polar ice and rising sea levels. This has and will result in loss of life, famine and the destruction of homes and livelihoods. The United Nations have recently stated that going beyond 1.5°C will most certainly lead to catastrophic disaster for the planet.

How to achieve Net Zero:

Governments and organisations around the world all have different strategies to achieving net zero and each approach can differ depending on the type of industry and the primary source of emissions.

Gigaclear is adopting a **Path to Net Zero** strategy which will follow three simple rules of Avoid, Reduce and Innovate:

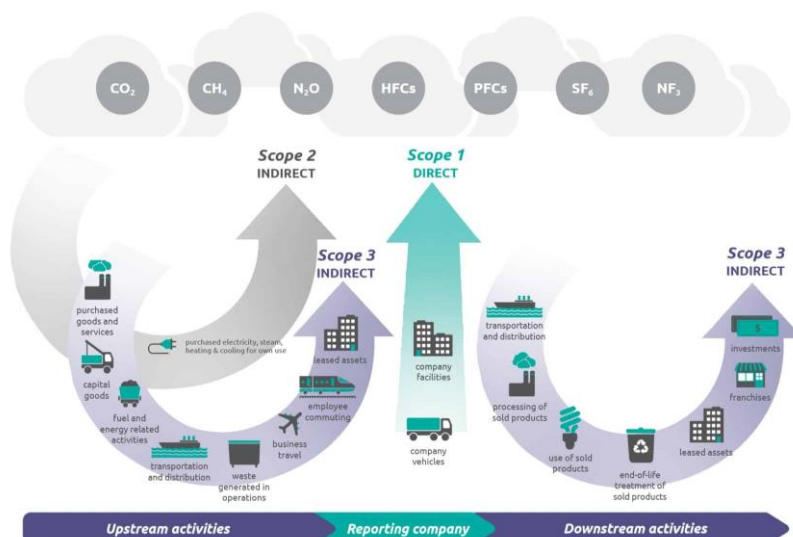
Avoid	Avoid future carbon emissions through evaluating data, designing and making decisions, changing behaviours and taking action
Reduce	Reduce current greenhouse gases through greater efficiency in energy and materials use and utilising renewable resources
Innovate	Innovate through determining our 'Digital Green Value', streamline processes and functions, develop and embrace new technology and solutions and promote social movements

Scopes 1, 2 and 3:

A Greenhouse Gas (GHG) Protocol was established to create globally recognised and standardised frameworks to measure and manage greenhouse gas emissions.

Under the protocol there are three defined scopes to categorise carbon emissions to help companies to manage and report upon. They are:

Scope 1	This covers greenhouse gases (GHG) produced <i>directly</i> by the company such as emissions produced from the running of offices or vehicles
Scope 2	These are the emissions created <i>indirectly</i> such as the energy purchased for heating and cooling our buildings
Scope 3	These are emissions created not by the company but by our suppliers through their processes and activities including manufacturing, transportation and construction



Baseline Emissions:

Baseline emissions are a record of the greenhouse gases that have been produced in the past prior to the introduction of any strategies or initiatives to reduce emissions. Baseline emissions are the reference point for which future emissions data and reductions can be made.

As technology develops and data capturing improves the baseline emission reference period may change and it should also be noted that Gigaclear is a rapidly growing business doing so to meet the Governments target of 80% coverage of Gigabit capable broadband across the UK by 2025 which shall also result in an initial *increase* in GHG emission figures.

GHG Emissions	2020 - Total tCO ₂ e
Scope 1	499.80 tCO ₂ e
Scope 2	500.59 tCO ₂ e Gas for our buildings = 5.05 tCO ₂ e ¹ Diesel for our fleet = 495.54 tCO ₂ e
Scope 3: <ul style="list-style-type: none">• Emissions from business travel• Upstream transportation and distribution• Waste generated in operations• Employee commuting• Downstream transportation and distribution	Gigaclear are currently establishing the data capturing and reporting methodologies to be in place in 2022 to then establish baseline emissions for this scope.
Total Emissions:	1000.39 tCO ₂ e

Reporting Year:

GHG Emissions	2021 - Total tCO ₂ e
Scope 1	629.65 tCO ₂ e
Scope 2	1060.42 tCO ₂ e Gas for our buildings = 70.26 tCO ₂ e Diesel for our fleet = 990.16 tCO ₂ e
Scope 3: <ul style="list-style-type: none">• Emissions from business travel• Upstream transportation and distribution• Waste generated in operations• Employee commuting• Downstream transportation and distribution	Gigaclear are currently establishing the data capturing and reporting methodologies to be in place for 2022 to then establish baseline emissions for this scope.
Total Emissions:	1690.07 tCO ₂ e

¹ The figures for gas consumption in 2020 differ from those reported in 2021 due to a timing discrepancy in the collection of the data prior to the 2020 report. The discrepancy was identified and included in the 2021 gas consumption data.

Emissions Reduction Overview:

In our Path to Net Zero ambitions for 2045 Gigaclear shall endeavour to implement the following carbon reduction initiatives which shall be outlined in strategic plans currently under development:

- 100% renewable energy resources for all offices and infrastructure
- Transition to low carbon commercial EV or Hydrogen fleet
- Promotion and provision of green travel (public transport/car sharing/EV/HV) for employees
- Transition to EV or Hydrogen heavy goods vehicles for the supply chain
- Transition to EV or Hydrogen plant for the supply chain (excavators / dumpers)
- Use of non-recyclable waste plastics in reinstatement (reduced carbon emissions process)
- Digital Green Value for community emission reductions
- 100% recycle of customer issued products
- Eco-design and life cycle requirements for supply chain products
- Supply chain waste and sustainability program
- Employee engagement for personal behaviour change
- Local (UK/European) sourcing of high volume products
- One Customer - One Tree incentives
- Carbon removal offsetting schemes for remaining emissions

Declaration and sign off:

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and has been signed on behalf of Gigaclear's Senior Leadership Team.



Todd Hallam
HSEQ Director

Date: 20 January 2022