



Carbon Reduction / Net Zero Plan



<i>Latest review and publication date</i>	<i>Next review date</i>
March 2026	March 2027
Our Carbon Reduction Plan applies to the operational activities of Gigaclear and its affiliated supply chain partners and has also been prepared in response to the requirements of the UK Government framework Procurement Policy Note 006.	

Commitment to achieving Net Zero:

Gigaclear is a progressive and ambitious organisation that is dedicated to doing the right thing for the environment, our customers and the communities we work within as we deliver our ultrafast full fibre broadband to rural 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 a lot 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.

Baseline Emissions:

Baseline emissions are a record of the greenhouse gases that have been produced by an organisation 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 evolving business focused on delivery to its current and future customers and stakeholders and is doing so to meet the Government's target of 99% coverage of Gigabit capable full fibre broadband across the UK by 2032. This endeavour ultimately means possible increases and variables in GHG emission figures, not just for Gigaclear but for the wider fibre industry to meet the government's target.

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

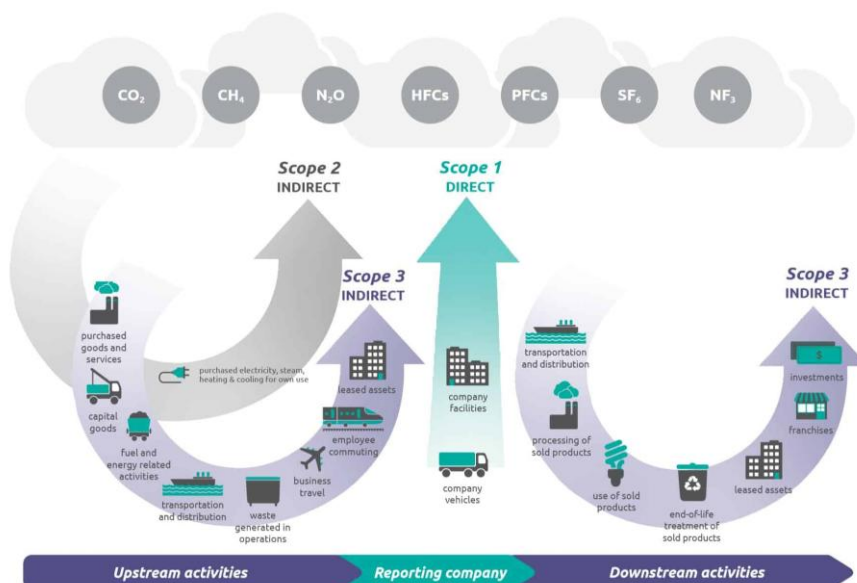
Avoid	Avoid future carbon emissions through evaluating data, designing and making decisions, changing behaviours and taking action
Reduce	Reduce current greenhouse gases through greater efficiency in energy and materials use and utilising renewable resources
Innovate	Innovate through determining our '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 <i>indirect</i> emissions created not by the company but by our suppliers through their processes and activities including manufacturing, transportation and construction. Scope 3 emissions are intrinsically challenging to obtain in an accurate and valid manner therefore methodologies have been developed by the company, and are continuing to evolve, to improve data capturing, accuracy and reporting.



Gigaclear Scope 1, 2 and 3 Emissions:

The following table provides Gigaclear’s emissions across the three scopes per tonne of CO2e (carbon dioxide equivalent) since accurate records were available. CO2e is the standard unit of measure of all greenhouse gases combined into a single number.

Gigaclear is committed to achieving a reduction over time in the key carbon emissions metrics but it must be recognised that we are continuing to evolve and grow as a business and this will inevitably lead to a variation in the metrics in the short to medium term. This will be evidenced in an increase in annual carbon emission figures as we also improve reporting in the Scope 3 emissions from our supply chain, effectively recorded since 2025, as well as develop further unique methodologies to determine emissions from our built network and assets.

Year	Scope 1			Scope 2	Scope 3				Total tCO2e
	Gas – Buildings	Fuel - Fleet	Total S1 tCO2e	Energy Production	UG Build Materials	Waste Transport	Business Travel	Total S3 tCO2e	
2020	5.05	495.54	500.59	499.80	-	-	-	-	1000.39
2021	70.26	990.16	1060.42	629.65	-	-	-	-	1690.07
2022	73.36	1465.63	1538.99	781.28	-	-	-	-	2320.27
2023	89.84	1019.89	1109.73	1299.73	-	-	-	-	2409.46
2024	65.55	872.21	937.76	1330.06	-	-	-	-	2267.82
2025	58.37	619.55	677.92	1214.55	688.65	194.4	134.97	1018.02	2910.49
Totals	362.43	5462.98	5825.41	5755.07	688.65	194.4	134.97	1018.02	12598.50

Scope 3 Emissions – include/exclude:

Gigaclear had been recording Contractor supply chain emissions and waste for Scope 3 reporting for a number of years however to improve the accuracy of data has recently developed methodologies based on our *built* overhead and underground network. Inclusions and exclusions for Scope 3 data currently include:

- **Infrastructure build materials** Emissions associated with the production and supply of purchased materials used in underground network construction. This includes backfill and surface reinstatement materials but *currently* excludes network apparatus ie cables and ducts.
- **Excavated material and waste transport:** emissions arising from the removal and transportation of excavated materials generated during civil works. This specifically includes fuel consumption from vehicles such as grab lorries used in the transport process.
- **Business travel:** calculated using data gathered through an employee travel survey.

To further enhance accuracy and consistency the focus and methodologies shall continue to develop with a primary focus on **overhead and underground network builds** enabling more representative emissions factors and activity data to be applied.

Scope 3 Emissions - ongoing development:

As data capturing and reporting maturity improves Gigaclear will look to include additional Scope 3 categories such as:

- **Upstream transportation and distribution;** emissions from logistics associated with inbound materials and equipment
- **Purchased goods and services;** broader supply chain emissions beyond core construction materials
- **Capital goods;** emissions from the production of long-term / large volume assets such as network infrastructure and equipment
- **Employee commuting;** daily travel emissions associated with employee journeys to and from work.

Gigaclear recognises that Scope 3 reporting is inherently complex and data intensive. Continuous improvement efforts are focused on; increasing supplier engagement and data collection, enhancing granularity of activity data, aligning methodologies with recognised standards ie the GHG Protocol and improving estimation techniques where primary data is not yet available.

Carbon Reduction Plan - Key Notes:

- 2026 emissions data shall be published by end of Q1 2027.
- Between the recording and reporting period of 2021 to 2023 there was a significant positive growth in the business with employee numbers increasing from 300no to 850no resulting in additional office space, stores and warehousing being established. There had also been a substantial growth in the fleet of vehicles from 70no to 300no.

There has, through proceeding years and shall continue to be, a stabilisation period across these three elements (people, premises, fleet) which will see a reduction in tCO₂e and, shall allow for a focused effort and impact on carbon emission monitoring and reduction.

- Gigaclear's Headquarters in Abingdon, Oxfordshire, the Swindon warehouse and all live Cabs have their energy provided from renewable sources. There are buildings where Gigaclear use gas which is provided by *Crown Gas and Power* where 25% equivalent volume of gas is put back into the grid from biogas processes.

Emissions Reduction Overview:

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

- 100% renewable energy resources for all offices and infrastructure
- Transition to low carbon commercial EV, Hybrid 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 high volume supply chain products
- Supply chain waste and sustainability management program
- Employee engagement for personal behaviour change
- Local (UK/European) sourcing of high-volume products
- Local biodiversity, habitat or educational investments
- Certified carbon offsetting investment for remaining 'shadow emissions'
- FTTP 15 year carbon emissions savings calculations

Declaration and endorsement:

This Carbon Reduction Plan has been completed in accordance with the UK Government framework Procurement Policy Note 006 and is endorsed by Gigaclear's Executive Leadership Team.

