



CYBERFORT

# Carbon Reduction Plan

## 2022 Results

ISSUE 2

# INTRODUCTION

## CYBERFORT'S COMMITMENT TO ACHIEVING NET ZERO

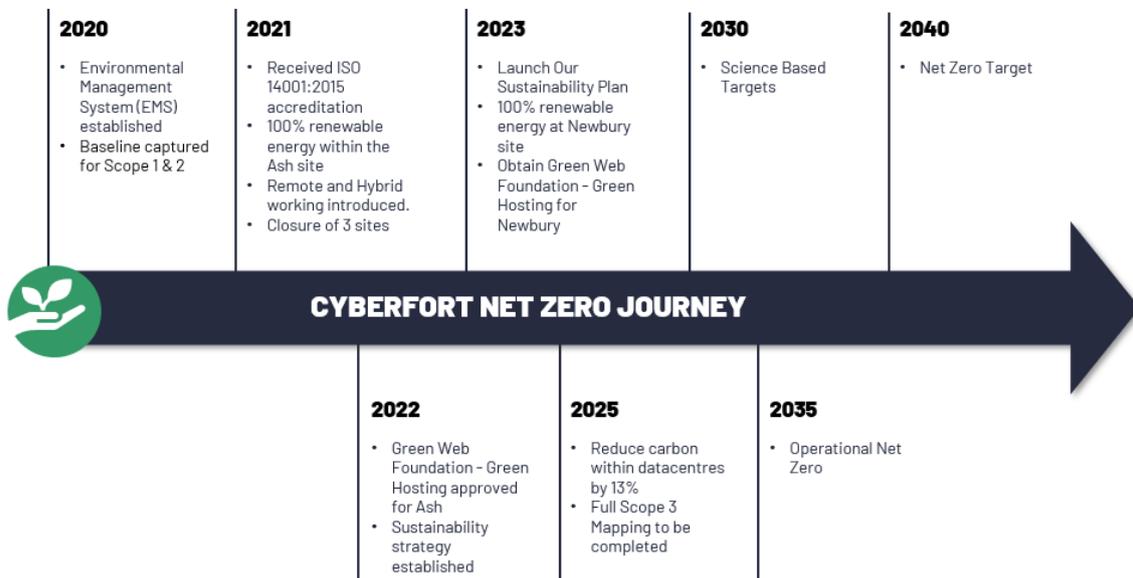
This Carbon Reduction Plan (CRP) captures Cyberfort's commitments to achieving Net Zero by 2050.



Cyberfort is committed to achieving Net Zero by 2050 which is a target set out by the Paris agreement. Our principal activities are based around Physical, Human and Digital Security which is delivered through Consultancy, Penetration Testing and Managed Hosting.

We have been working since 2020 on reducing our carbon footprint, by implementing an Environmental Management System (EMS) to monitor the impacts of our activities on the environment, gaining ISO14001:2015 certification against our EMS and developing Our Sustainability Plan, ensuring we have frameworks in place to set, manage and monitor against our objectives.

As we continue on our journey to Net Zero, we have established a plan of how, what and when we want to achieve goals:



Please refer to the following for further information:

[Committed To Sustainable Development - Environmental Policy](#)

[Our Sustainability Plan - Cyberfort Group](#)

## 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.

<b>Baseline Year</b>	<b>2020</b>
<b>Additional details relating to the Baseline Emissions calculations:</b>	
<p><b>Climate Change Agreement:</b> Cyberfort paid £16,954.00 for 1,211 tCO<sub>2</sub>e under the climate change agreement for the period 1<sup>st</sup> Jan 2019 to 31<sup>st</sup> Dec 2020.</p> <p><b>SCOPE 1 &amp; 2:</b> Cyberfort reports against 2020 baselines captured for GHG emissions as an organisation for Scope 1 and 2, forming the baseline for future reporting of our emissions data. The emissions are calculated in line with the GHG Protocol and verified by The Carbon Trust Green Business Fund via their Carbon Footprint Calculator.</p> <ul style="list-style-type: none"> <li>• <b>Company Vehicles:</b> We do not have any company vehicles, so there are no emissions from this category included in our emissions data.</li> <li>• <b>Company Facilities:</b> For our data centre in Newbury, we are tenants in buildings and Scope 1 fuel is included in lease fees, therefore this data will be reported by the leaseholders.</li> </ul> <p><b>SCOPE 3:</b> Scope 3 emissions data is not available for 2020, due to not having the mechanisms in place to capture the data required. Cyberfort have plans to complete an inventory to better understand its Scope 3 impacts in line with our environmental programme.</p>	
<b>Baseline year emissions</b>	
<b>EMISSIONS</b>	<b>TOTAL (tCO<sub>2</sub>e)</b>
Scope 1 <sup>1</sup>	79.5
Scope 2 <sup>2</sup>	2,716.2
Scope 3 <sup>3</sup>	N/A - No data recorded for 2020
<b>Total Emissions</b>	<b>2,795.7</b>

<sup>1</sup> Scope 1 emissions are direct greenhouse gas emissions that occur from sources that are controlled or owned by Cyberfort. e.g. emissions associated with fuel combustion in boilers, furnaces, vehicles.

<sup>2</sup> Scope 2 emissions are indirect greenhouse gas emissions associated with the purchase of electricity, steam, heat, or cooling. They are accounted for by Cyberfort as they are a result of the organization's energy use.

<sup>3</sup> Scope 3 emissions include all sources not within Cyberfort's scope 1 and 2 boundary and represent the majority of Cyberfort's total greenhouse gas emissions.

## CURRENT EMISSIONS REPORTING

**Climate Change Agreement (CCA):** Cyberfort paid £7,416.00 for 412 tCO<sub>2</sub>e under the CCA for the period 1<sup>st</sup> Jan 2021 to 31<sup>st</sup> Dec 2022.

**SCOPE 1 & 2:** Cyberfort reports against 2020 baselines captured for GHG emissions as an organisation for Scope 1 and 2. Emissions are calculated in line with the GHG Protocol and verified by The Carbon Trust Green Business Fund via their Carbon Footprint Calculator.

We have accounted for the below operational emissions, as required by the greenhouse gases covered in the UNFCCC/Kyoto Protocol:

<b>Carbon Dioxide (CO<sub>2</sub>)</b>	a by-product of fuel (oil) combustion when running the generators.
<b>Hydrofluorocarbons (HFCs)</b>	released as a result of gas leaks throughout a products life in A/C cooling systems
<b>Nitrous Oxide (N<sub>2</sub>O)</b>	a by-product of fuel combustion when running the generators.
<b>Methane (CH<sub>4</sub>)</b>	released in the combustion of fossil fuels (oil) and gas when running the standby generators and gas heating boiler.

**NOTE:** We do not have emissions for Perfluorocarbons (PFCs), Sulphur Hexafluoride (SF<sub>6</sub>) Nitrogen Trifluoride (NF<sub>3</sub>) in our operations.

**SCOPE 3:** In line with our environmental programme and our ISO:14001 accreditation received in November 2021, we have conducted assessments and are continuing to develop the maturity of our Scope 3 footprint and have established mechanisms to start recording data from year 2023.

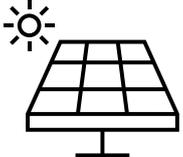
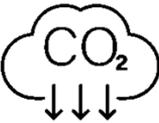
- **Business travel:** Cyberfort have not yet evaluated these emissions.
- **Employee commuting:** We do not have a full emissions data set for employee commuting; however we expect these to be low following the introduction in 2021 of Remote & Hybrid working.
- **Waste generated in operations:** We do not have specific data on the waste generated as an organisation. Cyberfort waste is collected from site and disposed of by third parties (either recycled or incinerated, no landfill).
- **Upstream transportation and distribution:** Cyberfort have not engaged with suppliers or value chain partners to evaluate emissions in relation to purchased goods.
- **Downstream transportation and distribution:** Not relevant to our operations since Cyberfort does not manufacture products and therefore does not have any transportation and distribution activities.

Reporting Year	2022
EMISSIONS	TOTAL (tCO <sub>2</sub> e)
Scope 1	85.1
Scope 2	1,996.3
Scope 3	N/A - No data recorded for 2022
Total Emissions	<b>2,081.4</b>

## EMISSIONS REDUCTION TARGETS

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

### Emissions reduction targets 2025

 <p><b>100%</b> renewable energy in our operations</p>	 <p><b>80%</b> of key suppliers have an environmental program in place.</p>	 <p><b>2cL</b> reduction in water consumption</p>
 <p><b>50%</b> reduction in plastic use &amp; waste recycled</p>	 <p><b>15%</b> reduction of carbon emissions within data centres</p>	 <p><b>30%</b> reduction in travel emissions.</p>

### How we are going to achieve these targets:

#### Waste Management

Reduction of waste sent to landfill and in the carbon emissions of land filling. By adopting strategies to prevent, reuse, recycle, recover energy and disposal, we will:

- Achieve 50% reduction of plastics across all sites with a view of replacing with sustainable materials.
- Recycle 50% of waste and maintain this rate year on year.
  - Review of materials delivered to site and ensure suppliers engaged to request sustainable packaging.
  - Adopt best practices such as paperless offices.
  - Already support recycling and provide bins as appropriate - monitor waste and raise awareness of our staff and contractors.

## Carbon Emissions (Gas and Electric)

To reduce Cyberfort's Gas and Electric carbon emissions from all administration buildings and data centres. By adopting UK government schemes such as Climate Change Agreement to ensure there is clear focus on carbon reduction, we will:

- 100% renewable energy in our datacentre facilities at Ash and Newbury by 2023.
- Implement a light replacement programme.
- Implement a training and awareness programme to highlight commitment to energy efficiencies and what employees can do to reduce carbon footprint.
- Ensure power saving modes/configurations are implemented on Cyberfort systems and devices where possible.
- Through the Climate Change Agreement report carbon and PUE performance.
  - Reduce our carbon within datacentres by 13% and a Power Usage Efficiency target of 1,540 tCO<sub>2</sub>e as per targets set by our CCA commitments by 2022.
  - Cyberfort paid £7,416.00 for 412 tCO<sub>2</sub>e under the CCA for the period 1<sup>st</sup> Jan 2021 to 31<sup>st</sup> Dec 2022.

## Fossil Fuels (Travel, Transportation and Generators)

To reduce the amount of fossil fuels consumed by travel, transportation, and generators to decrease Cyberfort's carbon emissions. By encouraging cycle to work schemes, car sharing, adopting remote working practices and reviewing testing procedures on generators, we will:

- Transition to flexible 'Hybrid' working, with increased use of technology for meetings etc. and closure of non-data centre sites.
  - Raise employee awareness and training to incorporate energy awareness at home.
  - Increase and invest in technology to allow Cyberfort employees to collaborate and share information whilst encouraging remote working.
  - Provide facilities to seamlessly host online webinars, events, and virtual tours.
- Invite customers to webinars, online events and provide virtual tours to discourage non-essential travel.
- Increase incentives around cycle to work and allowances.
- Consider incentives for car sharing and the use of public transport.
- Review preferred couriers favouring those with low carbon emissions.
- Reduce minimal testing procedures for generators to maintain the level of black building tests required whilst minimising impacts to the environment.

## Purchase, Sustainable Goods and Services

To reduce the demand for non-sustainable goods and services. By reducing purchasing of non-sustainable good and services and using resource-efficient products and considering end of life, we will:

- Review Cyberfort Supplier Due Diligence forms and amend these to reflect environmental requirements for suppliers.

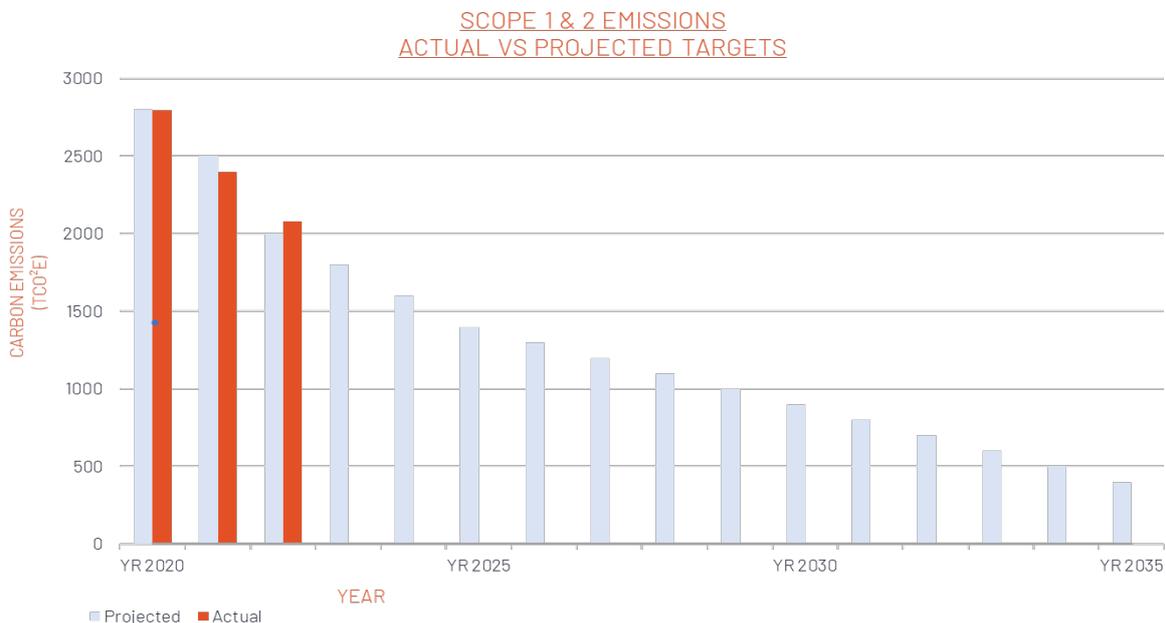
- Target external providers that have environmental frameworks in place such as ISO 14001 and a clear roadmap of when they will achieve Net-Zero and their approach to sustainable development.
- Review the risks and opportunities of external providers identify suppliers that are of high risk and propose treatment plans in order to minimise impacts to sustainable good and services.
- Introduce more sustainable materials and products from suppliers that apply the waste hierarchy and circular economy principles.
- Engage with our supply chain to reduce their travel and fuel usage.

### Water Consumption

To reduce the water consumed throughout Cyberfort Data Centres and administrative buildings. By identifying the amount of water consumed annually and building strategies to reduce the amount of water that is consumed, we will:

- Identified historic information to establish company consumption baseline and ways to reduce the consumption of water. Also spot any trends of high-water consumption e.g. Summer, garden watering, staff water consumption.
- By implementing a flexible working environment and allowing staff to work from home will help reduce the water that is consumed on sites.
- Consider Water Butts around site as an alternative for using direct mains water for gardening.
- Use water filter systems off the mains instead of using water providers.
- Detection for Datacentres and increased water consumption should identify any leaks throughout Cyberfort facilities.
- Provide signage and staff awareness to reduce the amount of water used on sites. For example, staff to only put dishwashers on when completely full.

### Progress against Cyberfort’s targets can be seen in the graphs below:



# CARBON REDUCTION PROJECTS

## Completed Carbon Reduction Initiatives 2022

The following environmental management measures and projects have been completed or implemented since the inception of Cyberfort's carbon reduction projects.

- **Data Centre Consolidation:** To help reduce carbon emissions, we have been consolidating our data suites by moving clients from low occupancy data rooms and combining them to make up high density data halls, making the cooling more efficient and enabling us to shut down cooling where no longer required. Recordings show a reduction of around 16 kWh in energy usage.
- **Data room cooling:** To reduce power usage and increase cooling efficiencies in the data rooms we have replaced all the CRAC units in 3 of our data rooms, current figures recorded have shown a saving of over 50% in power usage, the old Denco cooling systems were running at around 110kwh, the new Daikin cooling systems are running around 42kwh.  
  
To increase efficiencies in energy usage of the cooling systems, we have been upping the temperatures in the data rooms to meet new industry guidelines, this has already shown a reduction in power usage. So far, we have seen a reduction of around 4 kWh over 4 rooms.
- **Sheep Onsite:** We have introduced a small flock of sheep to our Ash site to help make our data centre even more environmentally friendly, where they can happily graze across our 18 acres of land. Not only has this reduced carbon emissions from the tractors that would have been used cutting the grass but also benefited the wildlife.
- **Lighting replacement:** All halogen and fluorescent light fittings in the data halls have been replaced with more efficient LED fittings and now controlled by occupancy sensors and timers, this has stopped lights being left on in unoccupied rooms and wasting energy. Corridor lighting is now also controlled by motion sensors.
- **Replaced single use plastics with more sustainable products:** The 15L bottled water coolers have been replaced with mains fed chilled water dispensers, this has removed the plastic water containers we were having delivered every month, we have also stopped purchasing plastic cups and everyone uses their own glass. We are reducing waste to landfill and the reducing carbon emissions no longer having the monthly deliveries with the bottles.



## 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.

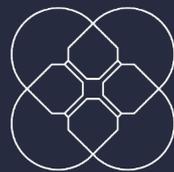
This Carbon Reduction Plan has been reviewed and signed off by the board of directors.

Signed on behalf of Cyberfort:



**Andy Hague**

Chief Executive Office, Cyberfort Group



CYBERFORT

Combining technology, people, and expertise to create a cybersecurity capability that is second to none, Cyberfort is making the world safer, one business at a time.