



CFMS Services Ltd.

Carbon Reduction Report 2025

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Executive Summary

CFMS has produced this report and will continue to monitor and update our current carbon footprint and our baseline scope 1, 2 and 3 emissions calculations.

CFMS acknowledges our responsibility to protect the environment in all areas of our work, from the projects and campaigns we select, to our actions within the office, as well as printing all of our publications on recycled paper. Specifically, we remain committed to reducing our impact upon the environment.

CFMS is committed to achieving Net Zero emissions by 2050

Scope

CFMS is a SME (Small, Medium Enterprise). The company is based in ground floor leased facilities at the Bristol and Bath Science Park. The office space is around 340m² in size, and includes 4 meeting rooms. CFMS currently has around 40 members of staff and the office space can comfortably accommodate 60. As such, we do not have any scope 1 emissions and the primary choice for leasing this facility was the ecological footprint.

Facilities

The building has achieved CEEQUAL Very Good rating, in addition to BREEAM Excellent standard. 200 square metres of solar panels provide between 10-15% of the building's energy requirements including a solar water heating system.

A biomass boiler supports energy requirements, using locally sourced woodchips. The site supports sustainable travel with footpaths, cycle paths, electric car charging points and sheltered bus stops¹.

CFMS core capabilities include a Data Centre which resides within an internal isolated unit/space, comprising two secure rooms; the air cooled Technology Lab and the liquid and air cooled HPC Lab. These total around 40m².

CFMS's external compound, situated adjacent to the main building, houses the 250kW transformed and fully redundant pair of UPS (Uninterruptible Power Supply) and the cooling for the current site, provided by two chillers (a redundant pair in Active-Standby)

Existing cooling infrastructure

CFMS currently operates liquid cooled rear door heat exchangers for HPC and air cooling on the same loop.

The cooling for the current site is provided by two chillers (a redundant pair in Active-Standby) located in the external compound, adjacent to the main building.

¹ <https://www.bbsp.co.uk/about-bristol-and-bath-science-park>

Maintenance of both the chillers and the UPS are carried out by contracted third party suppliers approved under the ISO 9001 quality management policy and reviewed regularly.

The Chiller and CRAC units are serviced every three months, with the UPS system being serviced every 6 months. Monitoring systems are in place to report critical UPS and chilling system status. CFMS subscribes to the Gold plus package which means the contractor has an 8 hour response to critical breakdown call outs.

Current Carbon Reduction mitigations

As a responsible business we are committed to reducing our carbon footprint and In order to continue our progress to achieving Net Zero, the following carbon reduction targets are in place at present.

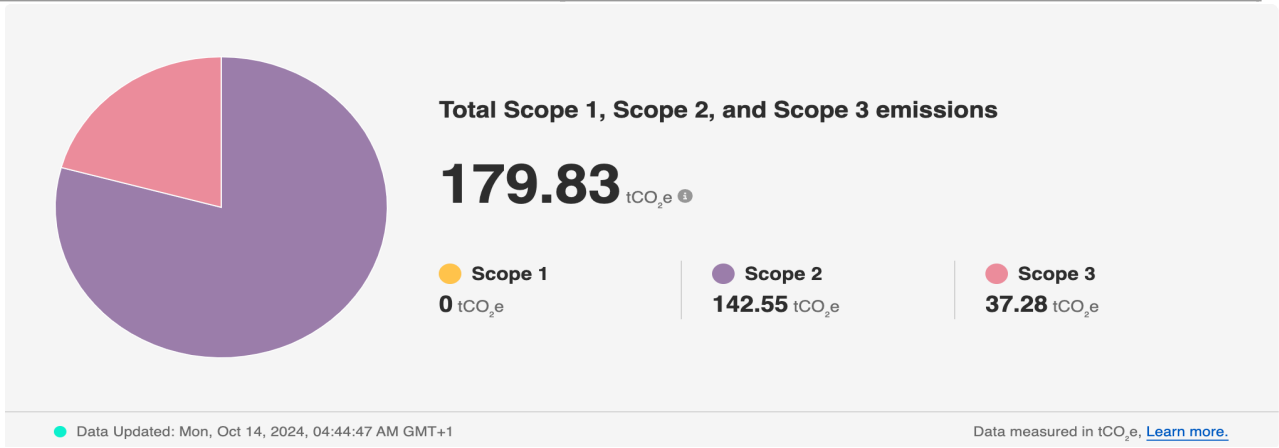
- Management of electricity and water supplies to ensure minimum consumption through energy efficient initiatives.
- Make efficient use of natural light within our building and to conserve energy by adopting an 'only turn on when using' approach to equipment. We have replaced all lighting with more efficient LED motion sensor lighting.
- Ensuring all electricity consumption for the High Performance Compute centre is 100% renewable. The current supplier is Good Energy. Good Energy's energy disclosure for 2025 can be seen in Appendix A.
- Working with our staff and suppliers to ensure that all waste is disposed of in line with legal and environmental requirements.
- To utilise, and promote the use of, recycled materials whenever possible, ensuring that materials are disposed of in an environmentally safe manner at the end of their useful life.

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. The Scope 2 emissions are localised, not market based.

CFMS has not previously assessed or reported emissions, the first reporting period will be used as the baseline emissions footprint moving forward.

Baseline Year: 2023	
Additional Details relating to the Baseline Emissions calculations.	
There is no historic baseline data which is known to deviate from the requirements under this measure (e.g. no prior Scope 3 emissions reporting). There is no previous reporting and the information for the current emissions reporting will form the basis of the future new baseline.	
Baseline year emissions:	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	N/A
Scope 2	142.55 tCO ₂ e
Scope 3 (Included Sources)	37.28 tCO ₂ e
Total Emissions	179.83



Current Emissions Reporting

Reporting Year: 2025	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	0
Scope 2	139.22 tCO ₂ e
Scope 3 (Included Sources)	0.33 tCO ₂ e
Total Emissions	139.55 tCO ₂ e

Fig1. Data source - persefoni.com (08Jun26)

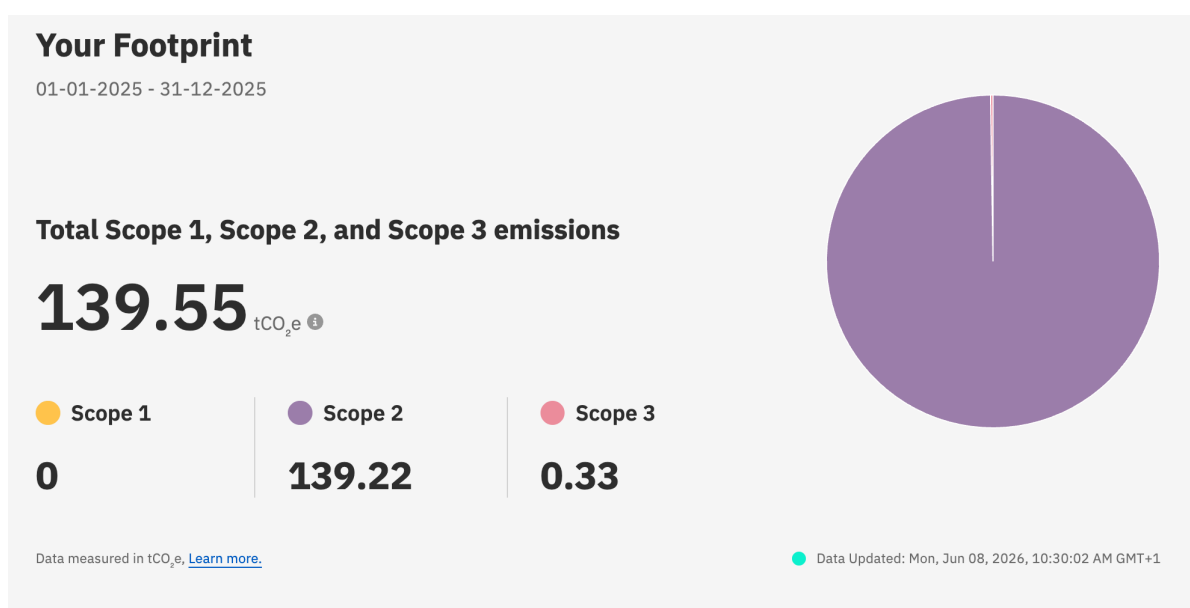


Fig 2 - Carbon Footprint - Persefoni (08Jun2026)

The organisations emissions calculating has been completed after an audit of internal finances to ensure up to date expenditure was included (May 2026). Two online tools have been used, Persefoni, as indicated by the images above and The Small Business Carbon Calculator, which present results within 0.1 differential.

Approach to Scope 2 emission reductions

We closely monitor our infrastructure facilities, which are not supplied by the Science Park main facilities energy, via our in-house digital twin and on-premises weather station, which provides real time insight into our energy use and efficiency. This allows us to monitor our cooling capacity and the energy consumption coupled to this and make agile changes as temperatures dictate.

CFMS has calculated that under absolute worst-case conditions (with ambient outdoor temperatures above 35°C constantly), that we would achieve a PUE (Power Usage Effectiveness) of approximately 1.3, based on our own recorded climate data for our site we would expect this to only occur for a few hours

per year. Utilising the data from our own on-site weather stations yielded an estimate of a 1.1 PUE, across a typical year at full load constantly.

We have anticipated that the mitigating effects, due to the use of warm water direct liquid cooling, should allow for the system to achieve energy-free cooling for around 95% of the year. A relatively high air-cooling target temperature should therefore enable free cooling for at least 70% of the year and partial free cooling almost year-round.

We are currently exploring options to connect our excess heat to local social housing networks. The organisation engages with local organisations regarding the potential for heat recapture and local heat networks. Although this would not be suitable for efficient heating of homes or office space, it could provide a source for water source heat pumps to economically boost the supplied temperature.

We would anticipate the use of more sustainable infrastructure and explore the potential for alternative power generation and continue to source responsibly in order to reduce future energy consumption falling under Scope 2 emissions.

Future approaches could include the optimisation of the Data Centre which is already closely monitored.

Approach to Scope 3 emission reductions

CFMS is committed to responsible procurement under ISO 9001. We currently use 100% renewable energy through our current supplier, Good Energy, which is used to power the data centre.

Our suppliers are subject to annual reviews under this organisational standard. CFMS is committed to sustainable and renewable energy and this is a factor for consideration when reviewing existing suppliers and any potential competitors.

We will continue to encourage cycle to work and alternative means of transport to our employees, who can benefit from cycle to work through available schemes.

We consider climate change to be relevant to the organisation and how this can be mitigated through risk management and business practices. CFMS endeavours to raise and maintain a high level of understanding of, and participation in, environmental best practices by staff and suppliers.

Environmental Management Procedures

CFMS maintains structured Environmental Management Procedures designed to ensure that the organisation prevents or reduces significant environmental impacts arising from our operations, facilities, procurement, and supply chain activities. These procedures form part of our quality management system and align with the environmental expectations of ISO 9001, our sustainability commitments, and relevant environmental legislation.

1. Discharging Relevant Legal and Regulatory Responsibilities

CFMS complies with applicable UK environmental regulations, including but not limited to:

- The Environmental Protection Act 1990
- The Waste (England and Wales) Regulations 2011
- The Clean Air Act 1993
- ESOS Phase 3 and SECR (where applicable)
- Requirements relating to refrigerant gases, electrical waste, and data-centre-related energy monitoring

Compliance is supported through:

- Regular audits as part of the ISO 9001 Quality Management System
- Approval and monitoring of all facilities contractors (including chiller and UPS maintenance suppliers)
- Maintenance schedules that meet or exceed statutory requirements
- Documented procedures for waste, energy use, supplier management, and resource efficiency
- Annual reviews of our carbon footprint and progress toward Net Zero

2. Communication of Environmental Arrangements to Employees & Workforce

CFMS ensures environmental responsibilities are clearly communicated and understood by all employees through:

- Induction training covering environmental expectations, waste handling, and energy use
- Internal communications promoting energy efficiency, waste reduction, and sustainable travel
- Visible signage in the office encouraging correct waste segregation, switching off equipment, and responsible resource use
- Staff communications on sustainability initiatives and travel schemes
- Supplier and contractor briefings to ensure alignment with CFMS environmental standards

CFMS seeks to embed environmental awareness across the organisation and actively encourages staff behaviour that supports carbon reduction.

3. Sustainable Materials and Procurement

CFMS is committed to sustainable procurement and the responsible use of materials. Current arrangements include:

- **Responsible procurement under ISO 9001**, ensuring all suppliers undergo annual reviews and are evaluated on sustainability performance where applicable.
- Where relevant, CFMS prioritises materials and suppliers certified under recognised sustainability schemes, such as:
 - o FSC (Forest Stewardship Council)
 - o PEFC (Programme for the Endorsement of Forest Certification)
 - o BES 6001 (Responsible Sourcing of Construction Products)

- Publications and printed materials are produced using **recycled paper**, and CFMS promotes use of recycled or low-impact materials across the office.
- All data-centre electricity is supplied by **100% renewable energy**, currently through Good Energy (see Appendix A).
-

As part of future procurement reviews, CFMS will explore additional opportunities to further embed sustainability requirements into purchasing decisions.

4. Waste Management

CFMS manages waste in line with statutory requirements and best practice through:

- Segregation of waste streams within the office, including recycling, confidential waste, general waste and electronic waste
- Disposal only via approved contractors in compliance with the Waste (England and Wales) Regulations
- Ensuring equipment and materials are reused, recycled or disposed of safely at end-of-life
- Encouraging staff to minimise waste generation and maximise recycling
- Inclusion of waste-reduction targets in annual carbon-reduction planning

Third-party facilities providers at the Bristol & Bath Science Park support responsible waste management across the wider site.

5. Carbon Reduction & Energy Management

CFMS has implemented a number of measures to reduce carbon emissions, including:

- Use of 100% renewable energy for all High Performance Compute operations
- Efficient building design (CEEQUAL Very Good, BREEAM Excellent)
- LED lighting throughout the office
- Maximising natural light to reduce electricity consumption
- “Only turn on when using” equipment policies
- Close monitoring of data centre cooling efficiency using a digital twin and on-site weather station
- Use of warm-water liquid cooling enabling free cooling for ~95% of the year
- Exploration of heat-recovery opportunities with local organisations

These initiatives contribute directly to our Net Zero 2050 commitment and ongoing Scope 2 and 3 emission reductions. It is important to recognise that the previous measurements have been calculated using scope 1 emissions reporting tools, which does not account for the current 100% renewable energy tariff. When using a market based calculation, which does take into account the 100% renewable energy being generated by the supplier, the resulting tCO2E figure drops considerably. (Annex B)

6. Monitoring, Responding to, and Recording Environmental Incidents, Emergencies & Complaints

CFMS maintains documented procedures for identifying, responding to, and reporting environmental events. These include:

Environmental Incident Management

- Any incident with potential environmental impact (chemical leak, refrigerant issue, energy anomaly, waste-handling error) must be immediately reported to management.
- Incidents are logged within the QMS, investigated, and corrective actions implemented.
- Contractor-related incidents (e.g., chiller or UPS issues) are escalated under maintenance contracts with defined response times (Gold Plus package: 8-hour response for critical issues).

Environmental Emergencies

- UPS/chiller systems are continuously monitored, with automated alerts for critical conditions.
- Emergency response procedures outline actions for power, cooling, or equipment failures to prevent environmental harm (e.g., refrigerant release, overheating risks).

Environmental Complaints

- Complaints from staff, tenants, neighbours, or partners are recorded and handled through the ISO 9001 Corrective Action process.
- All complaints are logged, investigated, and tracked to closure.

Monitoring & Review

- Environmental performance, including emissions data, energy use, waste, and any incidents, is reviewed annually by senior management.
- Findings contribute to continuous improvement and annual carbon-reduction planning.

Next Steps

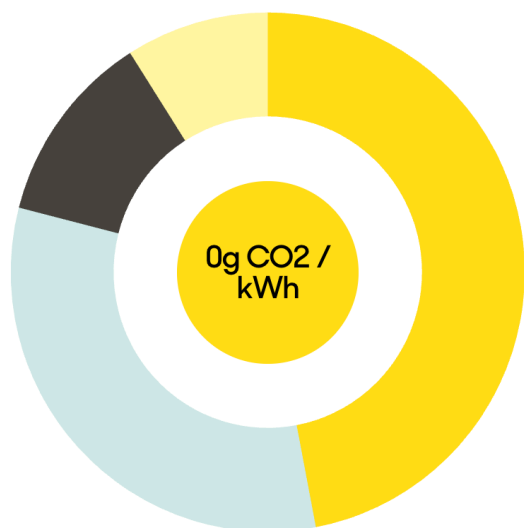
We aim to reduce our carbon emissions over the next five years to **170.83tCO₂e** by 2029. This is a reduction of **5%**

We will include more accurate employee travel data for next year and continue to promote sustainable travel

We will consider the business travel requirements of the organisation for inclusion.

We will use sustainable supplies and materials wherever possible throughout the business.

Annex A - Good Energy 2024-2025 Disclosure



Our 100% renewable fuel mix

47% = Wind

32% = Biogeneration

12% = Solar

9% = Hydro

*Fuel mix disclosure period April 2024-March 2025.

0g CO2 refers to generator emissions in the operational phase.

All energy suppliers are required to provide information on their fuel mix. To check another supplier's fuel mix, go to their website.

Source: <https://www.goodenergy.co.uk/our-energy/> (04/06/2026)

