Microbial Genomics Ltd

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Carbon Reduction Plan

Microbial Genomics Ltd is committed to achieving Net Zero greenhouse gas emissions by 2050, in line with UK Government targets.

This Carbon Reduction Plan has been developed in accordance with Procurement Policy Note (PPN) 06/21 and associated guidance and reporting standards for Carbon Reduction Plans.

Microbial Genomics Ltd recognises the importance of reducing environmental impact and supporting sustainable operations. The organisation is committed to continuous improvement in environmental performance and will review this plan annually.

Baseline Emissions Footprint

Baseline Year: 2025
Additional Details relating to the Baseline Emissions calculations:

Microbial Genomics Ltd operates laboratory and office facilities within a shared building environment at the BioHub, Birmingham Research Park.

Utilities, including electricity and heating, are managed centrally by the landlord and are not directly metered to the organisation. Where direct energy consumption data is unavailable, emissions have been estimated using SME-based estimation methods and UK Government greenhouse gas conversion factors, based on staffing levels, floor usage and working patterns.

The organisation occupies:

- Three laboratory rooms
- One office
- One storeroom

Waste management and utilities are provided through shared building services.

Baseline Emissions Table

Emissions Source	Total (tCO_2e)
Scope 1 Emissions	0.0
Scope 2 Emissions	6.5
Scope 3 Emissions	11.9
Total Emissions	**18.4 tCO_2e**

Emissions Breakdown

Scope 1 Emissions (Direct Emissions)

Scope 1 emissions include emissions from owned or controlled sources.

Microbial Genomics Ltd does not own or operate company vehicles and does not directly control combustion-based heating systems.

Scope 1 Total:
0.0 tCO_2e

Scope 2 Emissions (Electricity)

Scope 2 emissions relate to purchased electricity.

Electricity usage has been estimated based on:

- Small laboratory occupancy
- Shared building infrastructure
- SME operational patterns
- Hybrid working practices

Energy consumption is influenced by laboratory equipment use, office activities and shared building services.

Scope 2 Total:
6.5 tCO_2e

Scope 3 Emissions (Indirect Emissions)

Relevant Scope 3 emission sources included:

Business Travel

Business travel emissions have been estimated using standard UK Government greenhouse gas conversion factors for rail and passenger vehicle travel. The organisation seeks to minimise travel where practical through the use of remote collaboration tools. Where travel is necessary rail travel is preferred where practical.

Employee Commuting

Hybrid working arrangements significantly reduce commuting emissions. The majority of staff who are required to be on site on a daily basis make use of public transport.

Waste

Waste disposal is managed through shared BioHub waste systems, including:

- General waste
- Laboratory waste
- Clinical waste streams where applicable

Waste emissions have been estimated using standard SME waste factors.

Water

Water usage is included as part of shared facility services.

Water-related emissions have been estimated using standard SME consumption models.

Scope 3 Total:
11.9 tCO_2e

Current Emissions Reporting

As this is the first Carbon Reduction Plan produced by Microbial Genomics Ltd, the baseline year also represents the first reporting year.

Future plans will report year-on-year changes against this baseline.

Emissions Reduction Targets

Microbial Genomics Ltd is committed to reducing greenhouse gas emissions in line with UK Net Zero targets.

To support this objective, the organisation has established the following carbon reduction targets:

- Reduce total emissions by 30% by 2030
- Continue incremental reductions annually thereafter
- Achieve Net Zero emissions by 2050

Progress against these targets will be reviewed annually.

Carbon Reduction Trajectory

Year	Target Emissions (tCO_2e)
2025	18.4
2030	12.9
2035	9.7
2040	6.4
2045	3.2
2050	Net Zero

Carbon Reduction Projects

Completed and Ongoing Measures

- Adoption of hybrid and remote working practices to reduce commuting emissions
- Preference for rail travel for business travel where practical
- Use of energy-efficient laboratory equipment where available
- Waste segregation and appropriate disposal through regulated laboratory waste streams
- Reduction of paper-based processes through digital working
- Use of shared infrastructure to optimise building energy efficiency
- Consolidation of sample shipments to reduce transport emissions
- Use of standardised packaging materials

Planned Future Measures

- Continued promotion of sustainable travel behaviours
- Continued use of remote collaboration tools
- Procurement preference for energy-efficient equipment
- Periodic review of supply chain sustainability practices
- Optimisation of sequencing workflows to reduce repeat processing and reagent waste
- Consolidation of sequencing batches to improve energy efficiency
- Monitoring and optimisation of cold storage equipment
- Increased recycling and reduction of material usage

Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standards 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 UK 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.

Approved on behalf of Microbial Genomics Ltd

Director Name: Nicholas Loman

Date: 13 Apr 2026