



Carbon Reduction Plan

Orchid Cellmark Ltd

Issue 1, October 2022

SERVICE EXCELLENCE THROUGH SCIENCE



Cellmark Carbon Reduction Plan

Issue 1

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Cellmark and Cellmark Forensic Services are trading names of Orchid Cellmark Ltd.
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Carbon Reduction Plan

Supplier name: Orchid Cellmark Ltd (Cellmark)

Publication date: October 2022

Commitment to achieving Net Zero

Orchid Cellmark Ltd is committed to achieving Net Zero emissions by 2050.

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.

Our Baseline includes our greenhouse gas (GHG) emissions from the seven GHGs named by the Kyoto Protocol: Carbon Dioxide (CO₂), Hydrofluorocarbons (HFCs), Methane (CH₄), Nitrous Oxide (N₂O), Nitrogen Trifluoride (NF₃), Perfluorocarbons (PFCs) and Sulphur Hexafluoride (SF₆). Our emissions are calculated in tonnes of carbon dioxide equivalent (CO₂e) using the appropriate conversion factors published by BEIS and DEFRA.

Cellmark’s greenhouse gas emissions reporting is aligned to our Financial Year ‘FY’ Reporting (1st January to 31st December).

Baseline Year: 2019 (1st January – 31 December)

Additional Details relating to the Baseline Emissions calculations

2019 was the first year Cellmark completed Carbon Footprint calculations which included Scope 1 and 2 emissions only.

Baseline year emissions:	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	360.23
Scope 2	677.76
Scope 3 (included Sources)	Not calculated
Total Emissions	1037.99

For the 2021 FY Scope 3 emissions were included and in order to provide assurance the Scope 1, 2 and 3 figures have been calculated by a third party.

Current year: 2021 (1st January – 31 December)

Additional Details relating to the 2021 Emissions calculations

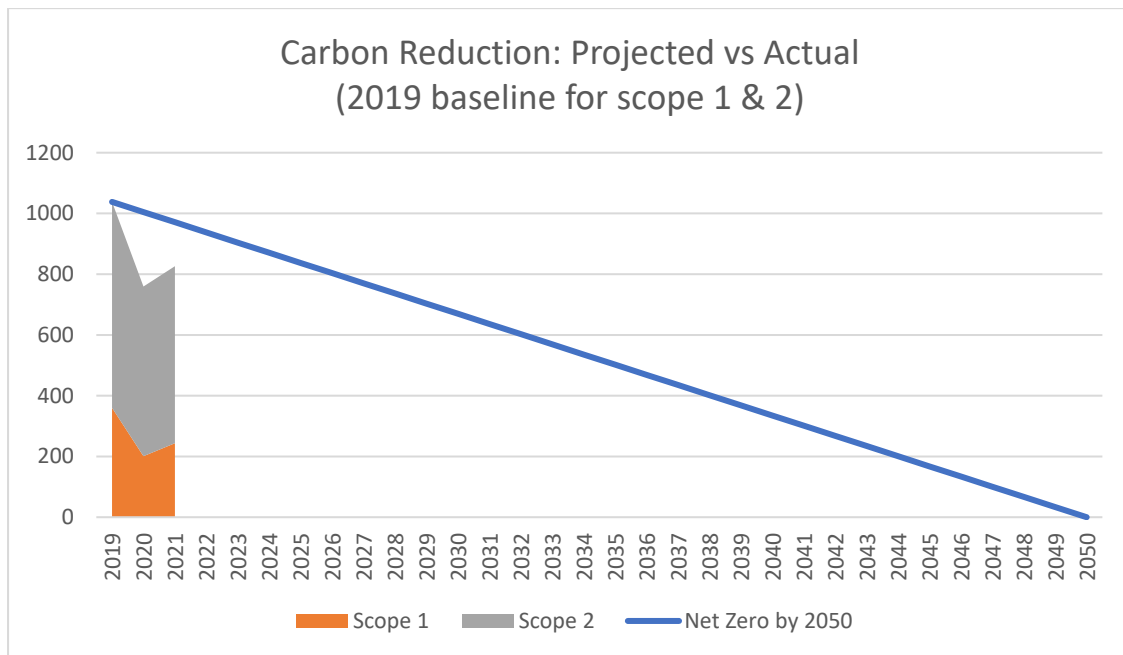
2021 is the first year Orchid Cellmark Ltd completed Carbon Footprint calculations including scope 1, 2 and 3 emissions and will be used as the baseline, for ongoing reporting.

2021 emissions:	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	243.69
Scope 2	582.54
Scope 3 (included Sources)	2587.34
Total Emissions	3413.57

Emissions reduction targets

Cellmark’s current target over the next five years (to 2026) is a 17% reduction of total greenhouse gas emissions to 2825 tCO₂e.

Cellmark is committed to Net Zero by 2050, or sooner, and will pursue interim milestone targets against our 2021 baseline. Progress against these targets can be seen in the graph below:



Carbon Reduction Projects

Completed Carbon Reduction Initiatives

Orchid Cellmark maintains ISO Standard 14001:2015 (Environmental Management) to support and externally assure our approach.

The following activities are some of the examples of environmental management projects that have been completed or implemented since the 2019 baseline. The carbon emission reduction achieved by these schemes equate to 211 tCO₂e, a **20%** reduction against the 2019 baseline.

- Upgrades to air conditioning units on our Abingdon site, replacing older / higher energy consumption units.
- Replacement of T5 and T8 lighting to LED units in all of our office and laboratory areas.
- Promoting a 'lights off' policy and implementing automated power off features on PCs, reducing our baseload energy consumption.
- Implementation of companywide video conferencing facilities to reduce travel between sites.

Working differently during the COVID-19 pandemic, for example reduced use of Cellmark vehicles and significantly less employees working on our sites has had a positive effect on our emissions, however we do expect some increase in FY2022 as we see a change in working patterns

In the future we hope to implement further measures such as:

The removal of natural gas, as a fuel source, which is currently used to heat buildings and hot water. Two of our buildings were fuelled by electricity only, in FY2021, with a further two to be electric only by the end of 2022.

For the 2021 FY we captured and reported Scope 1, 2 & 3 emissions at a company level. However, in order to continually improve energy efficiency, and reduce our carbon footprint we need to monitor individual buildings and assets. The granularity of data will enable us to make more informed decisions and carry out specific interventions towards our 'Net Zero' target. We are, therefore, finalising the approach to implement and exploit building monitoring across all our sites.

We are also investigating an Electric Vehicle (EV) infrastructure across our sites that can support employees. We aim to have our first EV charge points installed by Q1 2023.

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 (or equivalent management body) of Orchid Cellmark Ltd.

Signed on behalf of the Supplier

A handwritten signature in black ink that reads "D Hartshorne".

David Hartshorne (Managing Director)

Date: 28th October 2022