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Overview

The UK (United Kingdom) Government amended the Climate Change Act 2008 in 2019 by introducing a target of at least a 100% reduction in the net UK carbon account (i.e., reduction of greenhouse gas emissions compared to 1990 levels) by 2050. This is otherwise known as the 'Net Zero' Target.

Shandon Diagnostics Ltd (a subsidiary of Epredia) is committed to reducing its carbon footprint and addressing climate change through proactive measures. This Carbon Reduction Plan outlines the strategies and actions that will be implemented or are already in place to mitigate Scope 1, Scope 2 and Scope 3 (business travel only) emissions only at this time.

Additionally, we acknowledge the importance of addressing Scope 3 emissions and are dedicated to obtaining the necessary data to capture and address them effectively. We recognize our obligations in contributing to a sustainable future and will work diligently to achieve our carbon reduction goals.

Commitment to achieving Net Zero

Shandon Diagnostics Ltd is committed to achieving Net Zero emissions by 2040.

Baseline Year (2021/22) 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.

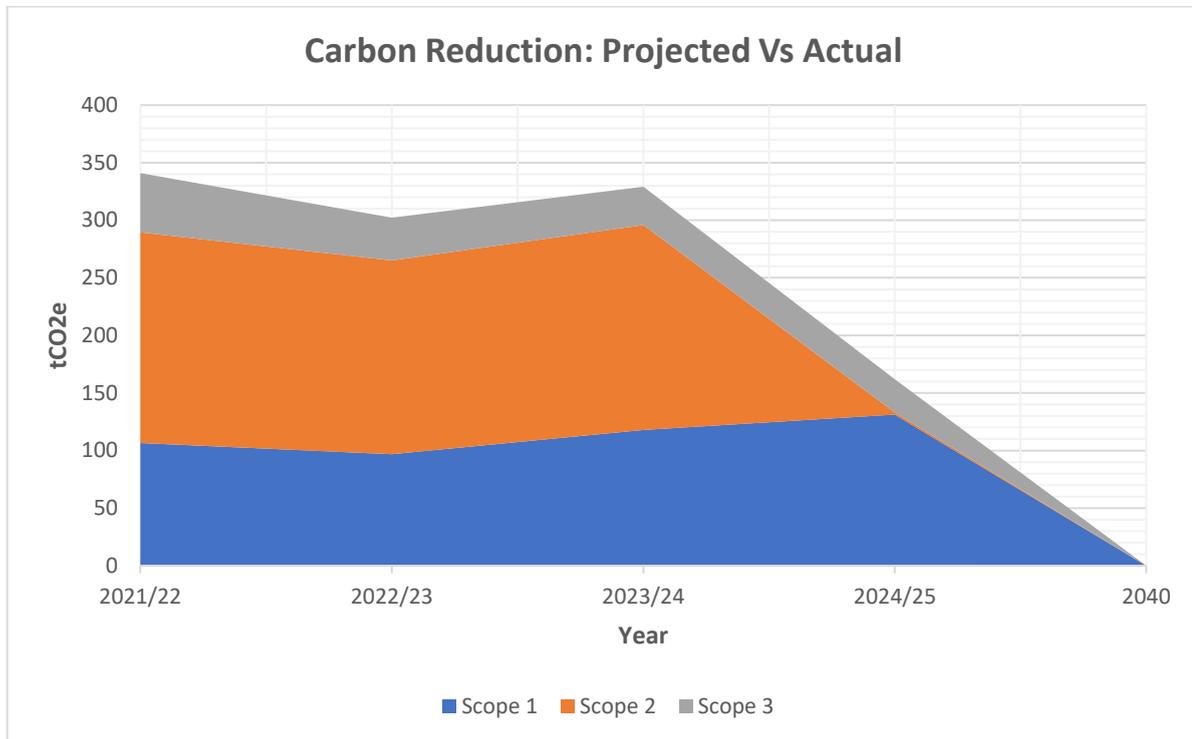
Baseline Year: 01 April 2021 > 31 March 2022	
Additional Details relating to the Baseline Emissions calculations.	
This is Shandon Diagnostics Ltd' First Carbon Reductions report. Our baseline year is our financial year 2021/22. The baseline report included Scope 1 and 2 and 3 emissions (business travel only), for our manufacturing site in Runcorn. Normative online calculator used to collate and calculate our emissions.	
Baseline year emissions:	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	106.54
Scope 2	183.00
Scope 3 (Included Sources)	51.42 (business travel only)
Total Emissions	340.96

Current Emissions Reporting

Reporting Year: 01 April 2024 > 31 March 2025	
Additional Details relating to the Baseline Emissions calculations.	
This is Shandon Diagnostics Ltd' Third Carbon Reduction report. Our baseline year is our financial year 2021/22. The baseline report included Scope 1 and 2 and 3 emissions (business travel only), for our manufacturing Site in Runcorn. All electricity purchased is from 98% renewable sources. Normative online calculator used to collate and calculate our emissions.	
Baseline year emissions:	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	131.25
Scope 2	1.82 (98% renewable electricity sourced)
Scope 3 (Included Sources)	29.01 (business travel only)
Total Emissions	162.08 (Market Based Emissions Factor)

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Progress against these targets can be seen in the graph below:



(Market Based Emissions Factor)

Emission Reduction Projects

Scope 1 Emissions

Scope 1 emissions refer to direct greenhouse gas emissions that occur from sources that are owned or controlled by Shandon Diagnostics Ltd. These emissions primarily include:

- Combustion of fossil fuels in on-site equipment e.g., Gas boiler and back-up generator
- Vehicle (LGV) used to transfer finished goods to our storage facility.
- Fugitive refrigerant gases from air conditioning units

Carbon Reduction Strategies - Scope 1:

A number of initiatives have already been implemented to reduce our scope 1 emissions; examples of such initiatives include but are not limited to;

- Conduct energy audits to identify opportunities for efficiency improvements.
- Upgrade our electric vehicle charging points to afford additional/more efficient facilities.

To further reduce our scope 1 emissions, we will undertake the following:

a. Energy Efficiency Improvements:

- Investigate the purchase of green gas (biomethane)
- Conduct energy audits to identify opportunities for efficiency improvements.
- Upgrade our electric vehicle charging points to afford additional/more efficient facilities.

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Scope 2 Emissions

Scope 2 emissions refer to indirect greenhouse gas emissions associated with the generation of electricity, heating, and cooling purchased by Shandon Diagnostics Ltd.

Carbon Reduction Strategies - Scope 2:

A number of initiatives have already been implemented to reduce our scope 2 emissions; examples of such initiatives include but are not limited to;

- Adjustment of temperature set points in the IT Server room
- Procurement of Renewable Energy to purchase 100% renewable energy.
- Switch from fluorescent or halogen lighting to LED lighting across our facility.
- Passive infrared sensors to avoid unnecessary energy usage.

To further reduce our scope 2 emissions, we will undertake the following:

a. Energy Conservation:

- Raise awareness among employees about the importance of energy conservation.
- Implement energy-saving practices, such as turning off lights and equipment when not in use.

b. Facility Upgrades:

- Review and where feasible, Invest in energy-efficient technologies for buildings and facilities.
- Consider energy storage solutions to optimize electricity usage.
- Rationalising occupied space to minimise energy consumption.
- Improving the fabric of the head office building to encourage better heat retention.
- Continuing rollout of automated lighting controls

c. Renewable Energy Integration:

- Explore and invest in onsite renewable energy from solar, wind, or geothermal where feasible.

Scope 3 Emissions

Scope 3 emissions are indirect greenhouse gas emissions that occur in the value chain of Shandon Diagnostics Ltd, including activities related to purchased goods and services, employee commuting, business travel, waste disposal, etc. While we acknowledge the significance of Scope 3 emissions, obtaining comprehensive and accurate data is essential for effective reduction strategies.

Carbon Reduction Strategies - Scope 3:

A number of initiatives have already been implemented to reduce our scope 3 emissions; examples of such initiatives include but are not limited to;

- Monitor and optimize fuel consumption in company-owned vehicles and equipment.
- Promote our company electric vehicle scheme.

To further reduce our scope 3 emissions, we will undertake the following:

a. Data Collection:

- Implement systems to track and report Scope 3 emissions accurately.

b. Supply Chain Engagement:

- Engage suppliers and encourage them to adopt sustainable practices, including transportation.
- Prioritize suppliers with lower carbon footprints, where possible.
- Work with customers to help enable them to recycle current equipment.

c. Employee Engagement:

- Encourage sustainable commuting practices among employees.
- Promote video conferencing and virtual meetings to reduce business travel.

d. Business and Commuting:

- Monitor and optimize fuel consumption in company-owned vehicles and equipment
- Promote the use of public transportation, carpooling, or our cycle to work scheme.

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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 have been 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, *once compiled* will be 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 by the Site Director of Shandon Diagnostics Ltd.

Signed on behalf of Shandon Diagnostics Ltd:



Ian Weir
Senior Director, Operations (EPR)
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