

Carbon Tracker Report - Delta Surgical Ltd

Reporting period: January 2022 - December 2022

Your total carbon footprint

25.76

Tonnes CO₂e

	Total Carbon Equivalent (tonnes)	Cost £
Energy	14.69	£ 7,803
Transport	11.05	-
Commuting	0.00	
Water	0.01	£ 1,810
Total CO ₂ e	25.76	£ 9,613

Carbon Intensity Ratios

Carbon intensity ratios help you compare your carbon footprint with other businesses or sectors. They are calculated by dividing your total carbon emissions by a metric that is comparable between businesses, for example the number of staff (Full Time Equivalent) or your turnover.

Carbon intensity ratios are useful because they allow:

- Comparison over time
- Comparison across different organisation sectors and products.

They are particularly helpful in demonstrating carbon reductions in a growing organisation.

Number of employees	26
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Annual Turnover	£ 8,715,856
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Physical size	948sqm
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by Number of Staff

1.0

Tonnes CO₂e per person

by Annual Turnover

0.003

Kg CO₂e per pound

Equivalent to 0.33836348 Tonnes CO₂e/£M

by Floorspace

27.2

Kg CO₂e per sq. meter

Carbon Footprint Breakdown

The tables in this section show your carbon emissions across the various activities within your business. Activities with the greatest emissions are a good place to start your carbon reduction actions.

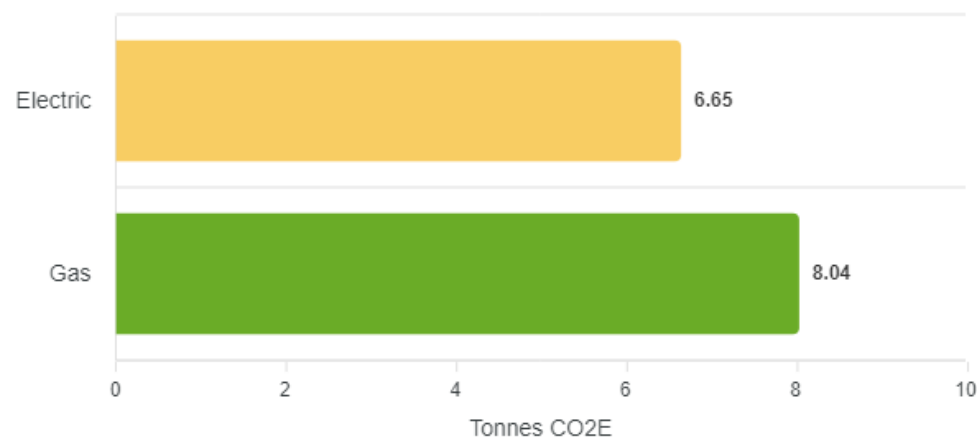
For this reporting period you gave information about:

- Energy usage
- Transport
- Water

You didn't give any information about:

- Staff Commute

Energy usage



Some common approaches to reducing the footprint of your energy usage include:

- Heat pumps used for heating can offer carbon emission savings of around 30% when compared to conventional natural gas boilers
- It makes economic sense to switch to LED now, rather than wait for bulbs to blow. Immediately, the carbon emissions and cost of running the light will go down around 85% in comparison to incandescent bulbs, 79% in comparison to halogen spot lights and 40% in comparison to compact fluorescents or florescent tubes.
- Using a VSD (variable speed drive) to reduce the speed of a pump or fan by just 20% can halve its carbon emissions and running cost



Find funded programmes to help you achieve net zero through energy efficiency grants (LCBEP)
<https://sben.co.uk/grants/>

Transport

Transport	CO ₂ e (Tonnes)
Fleet vehicles	11.05
Total for Transport	11.05 Tonnes CO₂e



Some common approaches to reducing the footprint of your transport use:

- Sending your staff on eco driving training could lead to carbon and cost savings of between 10% and 33%
- Switching your fleet from petrol and diesel cars to electric vehicles could cut your fleet carbon emissions by 70%. This saving will increase as the National Grid continues to decarbonise
- If your business does lots of off-site work such as maintenance or consulting you could save hundreds of tonnes of CO₂e per annum by careful planning of travel routes. Are site visits always necessary?



Looking for workshops, networking and sharing ideas with likeminded businesses?

If you are not already a member, join SBEN

<https://sben.co.uk/>

Water

Aspect	CO ₂ e (Tonnes)
Water supply	0.01
Total for Water	0.01 Tonnes CO ₂ e



Here is some information about water consumption:

- An efficient solar water heating system can meet up to 60% of a building's hot water needs



The Environmental Sustainability GROWTHmapper is an excellent tool to identify your strengths and weaknesses as an organisation

[Find out more about GROWTHmapper](https://sben.co.uk/funded-support/environmental-sustainability-growthmapper)

<https://sben.co.uk/funded-support/environmental-sustainability-growthmapper>

Your reduction targets and pledge to Net Zero

Recognising that climate change poses a threat to the economy, nature and society-at-large, you have chosen a target to achieve Net Zero by **2050**, which means reducing your carbon footprint by **8%** each year. This is equivalent to 2.06 tonnes in the first year.

The UK government has set legally binding targets to achieve net zero carbon emissions by 2050. Everyone needs to play their part for us to collectively achieve this goal.

Share your pledge to Net Zero

Join governments, businesses, cities, regions, and universities around the world to make your pledge public, through the SME Climate Hub.

In doing so, your pledge will be recognised as part of the United Nations Race to Zero campaign. You can find out more and pledge online by visiting the SME Climate Commitment page here:

<https://smeclimatehub.org/sme-climate-commitment/>



Next steps

- ➔ Enjoy the benefits of your free SBEN membership
<https://sben.co.uk/>
- ➔ Find funded programmes to help you achieve net zero through energy efficiency grants (LCBEP)
<https://sben.co.uk/grants/>
- ➔ The Environmental Sustainability GROWTHmapper is an excellent tool to identify your strengths and weaknesses as an organisation
<https://sben.co.uk/funded-support/environmental-sustainability-growthmapper/>
- ➔ Gain formal recognition for your green achievements through the Staffordshire Environmental Quality Mark
<https://www.eqm.org.uk/staffordshire>



Some carbon context

- The UK greenhouse gas emissions national statistics state that businesses accounted for 17% of UK greenhouse gas emissions in 2019.
- The UK adopted the Climate Change Act in November 2008, which following amendment in 2019 sets the UK legally binding targets to achieve net zero carbon emissions by 2050.
- To provide some context to the carbon dioxide equivalent (CO₂e) values used in this report, an average car in the UK travels 12,000km in a year, producing 2.33 tonnes of carbon dioxide.
- The average family home (1930s) emits 8 tonnes CO₂ per year.

Definitions

Carbon footprint	<p>A 'carbon footprint' measures the total greenhouse gas emissions caused directly and indirectly by a person, organisation, event or product.</p> <p>The main types of carbon footprint are:</p> <p><u>Organisational</u>: emissions from all the activities across the organisation, including energy use, industrial processes and business vehicles.</p> <p><u>Product</u>: emissions over the whole life of a product, from the extraction of raw materials and manufacturing right through to its use and final reuse, recycling or disposal.</p>
Carbon dioxide equivalent (CO₂e)	<p>Carbon dioxide equivalent (CO₂e) is a unit used to compare the climatic effect of various greenhouse gases to that of carbon dioxide. It gives the mass (kg or tonnes) of CO₂ that would have the same climatic effect. For example, nitrous oxide is 200 to 300 times more effective at trapping heat than CO₂ and CO₂e takes this difference into account.</p>
What is a net zero target?	<p>The Science Based Targets initiative (SBTi) has defined net zero targets for corporates as follows:</p> <p>To reach a state of net zero emissions for companies implies two conditions:</p> <ol style="list-style-type: none">1. To achieve a scale of value-chain emission reductions consistent with the depth of abatement achieved in pathways that limit warming to 1.5°C with no or limited overshoot and;2. To neutralise the impact of any source of residual emissions that remains unfeasible to be eliminated by permanently removing an equivalent amount of atmospheric carbon dioxide.' <p>https://sciencebasedtargets.org/resources/files/foundations-for-net-zero-full-paper.pdf (2020)</p>
Zero carbon	<p>'Zero carbon' means emitting absolutely no carbon dioxide to the atmosphere.</p> <p>However, there can be no such thing as zero emissions. There will always be a small percentage of residual emissions. The Science Based Targets initiative (SBTi) says residual emissions should be around 10% or less.</p>

Appendix

The tables in this section show the detailed figures we used to calculate your carbon footprint, including the conversion factors relevant to your reporting period.

These factors are sourced from <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

There are some technical terms used throughout the tool and report, including 'Scope', 'WTT' and 'T&D'. You can find definitions for these in the FAQs here: <https://sben.eqm.org.uk/sben/faqs>

Appendix - Energy Audit Details

Energy type	Usage	Conversion factors	CO ₂ e
Electric			
Electricity U10 D07W664140	16319	Scope 2 - 2022 : 0.19338 Scope 3 T&D - 2022 : 0.01769 Scope 3 WTT - 2022 : 0.04625 Scope 3 T&D WTT - 2022 : 0.00423	4,268.23 Kg
		All factors - 2022 : 0.26155	
Electricity U14 D07E664141	9103	Scope 2 - 2022 : 0.19338 Scope 3 T&D - 2022 : 0.01769 Scope 3 WTT - 2022 : 0.04625 Scope 3 T&D WTT - 2022 : 0.00423	2,380.89 Kg
		All factors - 2022 : 0.26155	
Gas			
Gas U10 9146071810/M016K00454806	16922	Scope 1 - 2022 : 0.18254 Scope 3 WTT - 2022 : 0.0311	3,615.22 Kg
		All factors - 2022 : 0.21364	
Gas U14 E016K105118D6	20731	Scope 1 - 2022 : 0.18254 Scope 3 WTT - 2022 : 0.0311	4,428.97 Kg
		All factors - 2022 : 0.21364	
Total for Energy			14,693.31 KgCO ₂ e

Appendix - Transport Audit Details

Transport	Miles	Conversion factors	CO ₂ e
Fleet vehicles			
Hybrid car (PHEV) AR08 HUM	10000 miles (16,093.4 Km)	Scope 3 T&D - 2022 : 0.0021 Scope 3 WTT - 2022 : 0.02657 All factors - 2022 : 0.02867	461.40 Kg
Hybrid (PHEV) van LL70 CDZ	7455 miles (11,997.6 Km)	 All factors - : 0	0.00 Kg
Electric car (EV) MA70 UOS	10072 miles (16,209.3 Km)	Scope 3 T&D - 2022 : 0.00431 Scope 3 WTT - 2022 : 0.01426 All factors - 2022 : 0.01857	301.01 Kg
Electric car (EV) MD21 YRU	200 miles (321.9 Km)	Scope 3 T&D - 2022 : 0.00431 Scope 3 WTT - 2022 : 0.01426 All factors - 2022 : 0.01857	5.98 Kg
Electric (EV) van BL70 VEO	3498 miles (5,629.5 Km)	Scope 3 T&D - 2022 : 0.00522 Scope 3 WTT - 2022 : 0.01423 All factors - 2022 : 0.01945	109.49 Kg

Transport	Miles	Conversion factors	CO ₂ e
Hybrid car (PHEV) DU71 YZR	22498 miles (36,206.9 Km)	Scope 3 T&D - 2022 : 0.0021 Scope 3 WTT - 2022 : 0.02657 All factors - 2022 : 0.02867	Scope 1: 2,570.69 Kg Other scopes: 1,038.05 Kg Total: 3,608.74 Kg
Diesel car BJ18 MZD	12394 miles (19,946.2 Km)	Scope 3 WTT - 2022 : 0.04104 All factors - 2022 : 0.04104	Scope 1: 2,433.43 Kg Other scopes: 818.59 Kg Total: 3,252.02 Kg
Diesel car DX70 YNK	7480 miles (12,037.9 Km)	Scope 3 WTT - 2022 : 0.04104 All factors - 2022 : 0.04104	Scope 1: 1,938.10 Kg Other scopes: 494.03 Kg Total: 2,432.13 Kg
Hybrid car (PHEV) YA17 VGC	3557 miles (5,724.4 Km)	Scope 3 T&D - 2022 : 0.0021 Scope 3 WTT - 2022 : 0.02657 All factors - 2022 : 0.02867	164.12 Kg
Electric car (EV) NL71 UKA	23958 miles (38,556.6 Km)	Scope 3 T&D - 2022 : 0.00431 Scope 3 WTT - 2022 : 0.01426 All factors - 2022 : 0.01857	716.00 Kg
Hybrid (PHEV) van WF22 CVP	10000 miles (16,093.4 Km)	All factors - : 0	0.00 Kg
Total for Transport			11,050.89 KgCO ₂ e

Appendix - Water Audit Details

Aspect	Usage	Conversion factors	CO ₂ e
Water U14 3005499111/H21VA419250	40.38	Scope 3 - 2022 : 0.149	0.01 Kg
		All factors - 2022 : 0.149	
Water U10 300547044D/H21VA419245	58	Scope 3 - 2022 : 0.149	0.01 Kg
		All factors - 2022 : 0.149	
Total for Water			0.01 KgCO ₂ e