




ANNUAL
REPORT
2023

RADIO DESIGN LTD
CARBON REDUCTION PLAN
GHG EMISSIONS
PUBLISHED SEPTEMBER 2024



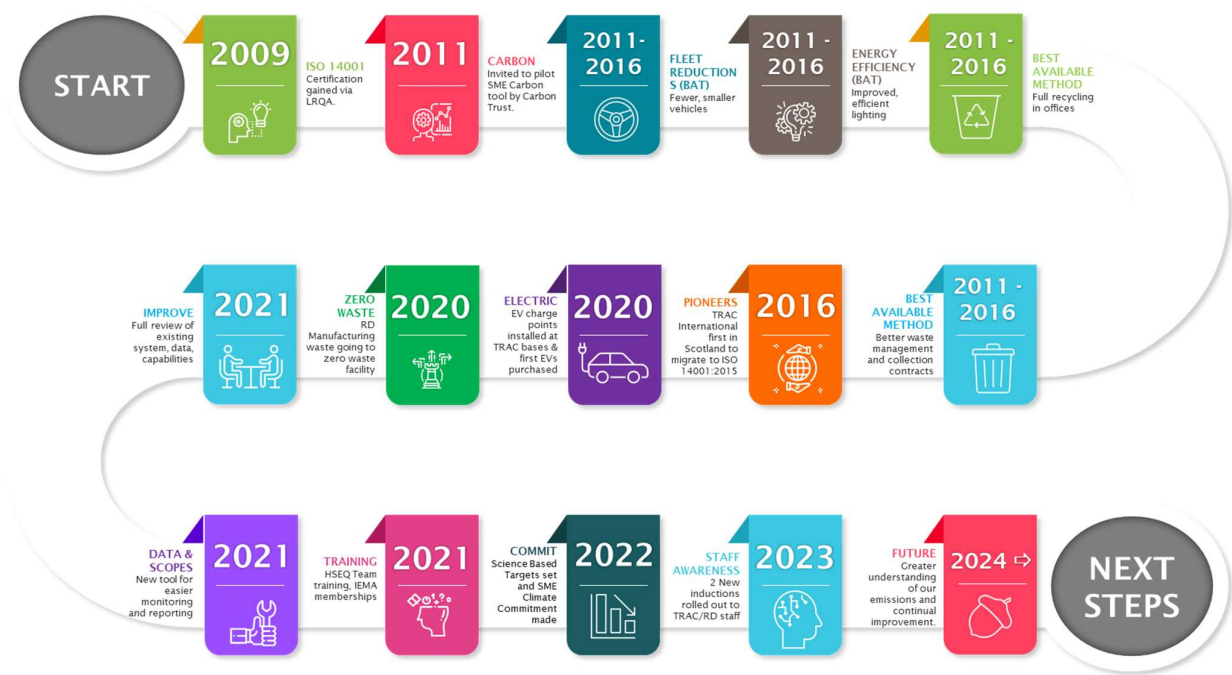
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1.0 NET ZERO COMMITMENT

Radio Design and TRAC have been carrying out emissions monitoring for over 10 years and have undertaken numerous projects to reduce emissions over those years. We continue to seek out new ideas, technologies and methods that can help us reduce our emissions even further.

The graphic below shows some highlights from our environmental improvement journey:



Radio Design, as part of the TRAC Company Group have committed to the following net zero targets as part of the SME Climate Commitment Scheme, which is itself part of the UN's Race to Zero initiative and is as follows:

The SME Climate Commitment

Recognising that climate change poses a threat to the economy, nature and society at large, our company commits to take action immediately in order to:

Halve our greenhouse gas emissions before 2030

Achieve net zero emissions before 2050

Disclose our progress on a yearly basis

In doing so, we are proud to be recognised by the United Nations Race to Zero campaign, and join governments, businesses, cities, regions, and universities around the world that share the same mission.

This commitment can be verified here - <https://smeclimatehub.org/committed-businesses/>



Furthermore, with our parent company office based in Scotland, we have committed to net zero by 2045, in line with the Scottish Government's aims at the time of setting our targets.

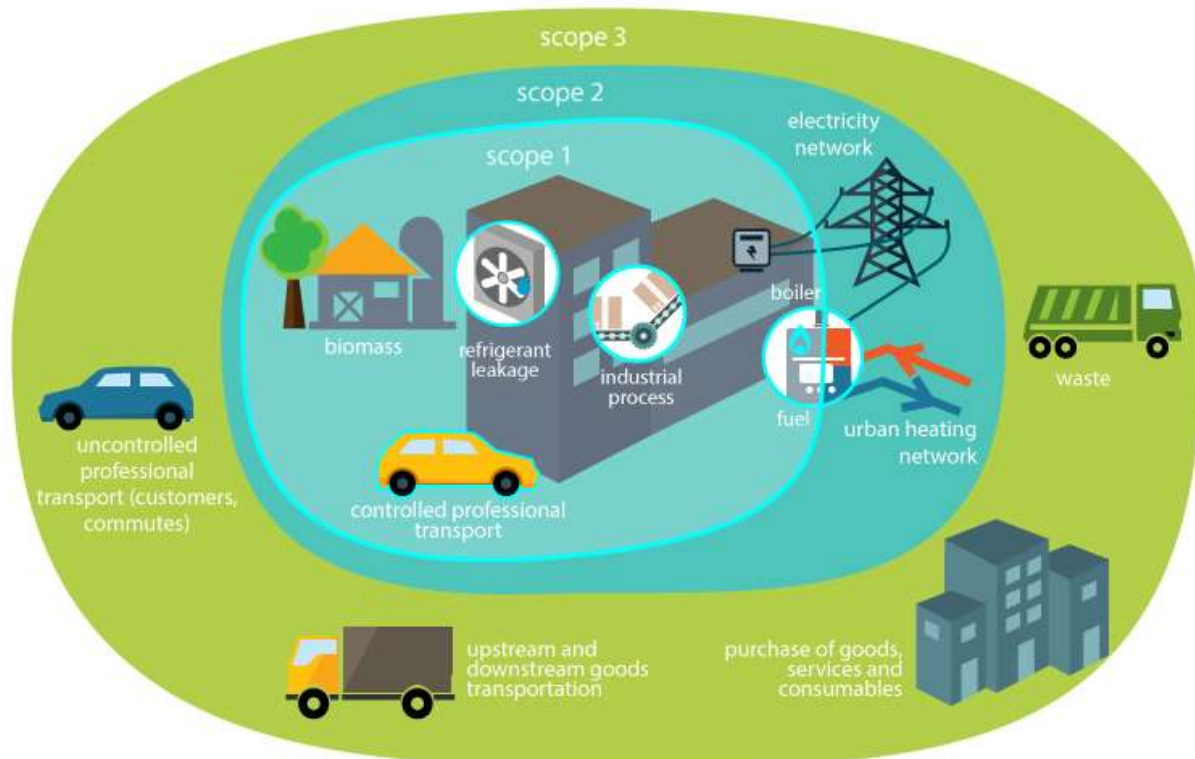
1.1 SCIENCE BASED TARGETS

One of the key actions of our Environmental and Sustainability Strategy was to develop and implement Science Based Targets. We set a new baseline year of 2019 and had our target validated by the Science Based Targets Initiative (SBTi) in 2022.

As part of the TRAC Group, **Radio Design is committed to reducing our scope 1 and 2 baseline figures by 46% by 2030** and being net zero across all scopes by 2045. 2023 showed that these were lower than the baseline year for the group as a whole.

As an SME, we are not required to set near-term targets on our Scope 3 emissions by the SBTi, however as a responsible organisation we are making efforts to widen what we monitor and include in our Scope 3 emissions and to take our own measures to reduce these as far as possible.

2.0 WHAT ARE SCOPES 1, 2, 3?



Schema : illustration of scopes perimeters for Greenhouse Gas emissions balance

When we calculate our greenhouse gas emissions, we do so by splitting the sources of our data into 3 scopes.

- Scope 1 is direct emissions on site – generally this is gas boilers and fuel used by our fleet for deliveries, business travel etc.
- Scope 2 is indirect emissions – these are emissions which are generated elsewhere but directly attributed to our business e.g. the electricity we use.
- Scope 3 is upstream and downstream activities and can encompass many elements. In TRAC/Radio Design we are currently monitoring waste, water and fuel expenses for staff. We will continue development of our emissions monitoring for scope 3 over the next few years.

3.0 BASELINE FIGURES

BASELINE 2019 YEAR:			
ADDITIONAL DETAILS RELATING TO BASELINE EMISSIONS CALCULATIONS: <ul style="list-style-type: none"> Figures for UK and India calculated using DEFRA Reporting Conversion factors 2019 published by the UK Government - Greenhouse gas reporting - Conversion Factors 2019 - GOV.UK (www.gov.uk) Scope 1 – UK - Gas used for fuel and diesel/petrol for fleet; India – diesel generator and coolant top ups. N.B. Diesel for fleet is not currently part of the India baseline (see notes in 4.0) Scope 2 – Electricity used on both sites Scope 3 – Waste to landfill, water, business travel from expenses (UK only - Fuel, train, taxi), employee commutes Exclusions – supplier data – unknown UK - There were no AC unit or fire extinguisher unit top ups of F gases in 2019. N.B. High lirage of AC coolant in RD India due to setting up new office with new AC units. 			
Emissions Tonnes CO ₂ e	RD UK	RD IN	Group total
Scope 1	178.4	29.1	207.5
Scope 2	150.3	33.5	183.8
Scope 3	362.2	91.7	453.9
TOTAL	690.9	154.3	845.3

Notes:

Radio Design disclosed their carbon data for 2019 as part of the Carbon Disclosure Project.

Scope 3 Notes:

Employee commuting was added to scope 3 baseline data in 2022.

Operational (between Radio Design’s India and UK bases) distribution did not take place in the baseline year as there was little to no product shifting between bases in 2019.

Upstream distribution is not included in the baseline year as data has not been reviewed. This will be done by December 2024 and a revision of this report will follow.

There is currently no business travel information for RD India in the baseline year.

4.0 CURRENT YEAR FIGURES

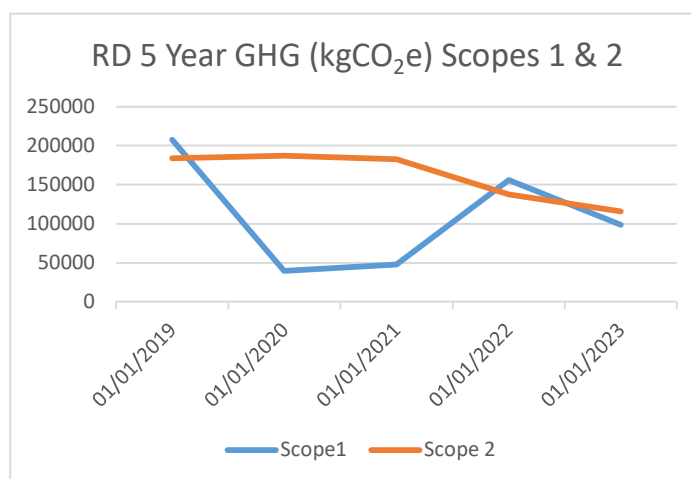
CURRENT YEAR: 2023			
ADDITIONAL DETAILS RELATING TO BASELINE EMISSIONS CALCULATIONS:			
<ul style="list-style-type: none"> Figures for UK and India calculated using DEFRA Reporting Conversion factors 2023 published by the UK Government. https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2023 Scope 1 – UK - Gas used for fuel and diesel/petrol for fleet; India – diesel generator, diesel/petrol for fleet and coolant top ups Scope 2 – Electricity used on both sites Scope 3 – Waste to landfill, water, business travel from expenses (fuel, train, taxi, flights etc, both sites), employee commutes. Purchased goods – Distribution (upstream and between RD bases) was also added for both UK and India. Exclusions – supplier data – unknown. UK - There were no AC unit or fire extinguisher unit top ups of F gases in 2023. 			
Emissions Tonnes CO ₂ e	RD UK	RD IN	Group total
Scope 1	89.4	8.85	98.3
Scope 2	43.1	72.7	115.9
Scope 3	315.9	1678.7	1994.6
TOTAL	448.4	1760.2	2208.7

Notes:

Scopes 1 and 2

Overall scope 1 has decreased since baseline by 53%.

Overall scope 2 has decreased since baseline by 37%.



As anticipated:

- India operations have grown since 2021 and therefore figures have increased.
- UK operations have reduced and therefore figures have decreased.

Radio Design UK began an energy review in 2022 which continued into 2023 – see projects table in 5.0. 63.5 tonnes CO₂e has been saved. During 2023, lighting upgrade projects were completed and a continuation of reduced electricity use was evident.

In 2023, energy contracts for UK premises were renewed and changed to 100% renewable energy sources.

Scope 3

Significant increases in scope 3 figures are due to wider analysis of emissions in our activities. The following data streams have been added in full:

- Flight data for India
- Upstream emissions of deliveries from suppliers to Radio Design bases
- Shipments of products between Radio Design India and UK bases

5.0 CARBON REDUCTION PROJECTS

The following environmental management measures and projects have been completed or implemented since the 2019 baseline.

Project	Description	Output									
Zero Waste to landfill	Radio Design Salts Mill, which generated most of the UK waste, now sends waste to B&M Waste's Zero Waste facility. Waste is either recycled or converted to RDF.	6.85 tCO ₂ e reduction from baseline. Case Study was issued to interested parties in 2021 to highlight scheme and benefits.									
Scope 3 enhancement – Employee Commute	<p>Surveys were issued to staff in the UK and India regarding their commutes pre and post pandemic in order to generate a baseline commute figure and current commute figure. This will help see differences made by hybrid working patterns where they exist and in future years, the difference made by uptake of electric vehicles.</p> <table border="1"> <thead> <tr> <th></th> <th>UK tCO₂e</th> <th>India tCO₂e</th> </tr> </thead> <tbody> <tr> <td>2019</td> <td>41.7</td> <td>90.53</td> </tr> <tr> <td>2022</td> <td>37.57</td> <td>107.13</td> </tr> </tbody> </table>		UK tCO ₂ e	India tCO ₂ e	2019	41.7	90.53	2022	37.57	107.13	Complete. Annual survey for 2023 data was issued to staff and completed in June 2023.
	UK tCO ₂ e	India tCO ₂ e									
2019	41.7	90.53									
2022	37.57	107.13									
RD India – Single Use Plastics	Audit undertaken on site in line with government regulations.	Single use plastics eliminated.									
UK Energy Review	<p>Energy review conducted in 2022 – gas and electricity usage in Salts Mill appraised with the following results:</p> <p>Salts Mill Gas – 2022 figures are 18% lower than 2021's readings. High usage months in 2022 may be up to 45% lower than 2021 readings. Reductions due to:</p> <ul style="list-style-type: none"> • Reprogramming of heating • Reduced shift working <p>Gas GHG emissions saving – 6.6 tonnes CO₂e</p> <p>Salts Electricity – 2022 figures are 38% lower than 2021's readings. Reductions due to:</p> <ul style="list-style-type: none"> • Reduced staffing/premises • Implementation of LEDs • Supervisors walking round to check equipment switched off by operatives 	<p>Complete</p> <p>Improvements made throughout 2022 and 2023.</p> <p>We would expect Shipley Wharf figures for 2024 to show a reduction too.</p> <p>Total saving 63.5 tonnes CO₂e</p>									

	<p>Electricity GHG emissions saving - 49 tonnes CO₂e</p> <p>Total saving for 2022 calculated as 55.6 tonnes CO₂e</p> <p>In 2023, Shipley Wharf LEDS were replaced, with the project completing in autumn 2023. A further 7.9 tonnes CO₂e appears to have been saved (despite the published DEFRA factor for electricity rising in 2023).</p>	
Renewable Energy Contract	<p>Electricity used at Shipley Wharf premises is now on a 100% renewable energy tariff. Complete June 2023.</p>	<p>As per DEFRA guidelines, we continue to report emissions for our electricity despite renewable source.</p>
Electric Vehicles	<p>Electric Mini purchased. Campaigns issued regarding Electric Vehicles. Octopus Energy EV purchase scheme joined.</p> <p>2023 Complete - RD have promoted EVs. 1st staff member joined the Octopus scheme in July 2023.</p>	<p>Unknown</p>

6.0 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.

Managing Director Date	M Gostling 04/09/2024	Signature	
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7.0 REVISION STATUS

REVISION NUMBER 01	DATE 04/09/2024	REASON FOR AMENDMENT First published report for 2023 data
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REVISION NUMBER	DATE	CONFIRM SCOPE 1	CONFIRM SCOPE 2	CONFIRM SCOPE 3	CONFIRM TOTAL	COMMENT
Rev 01	Figures published 30/08/2024	Total Scope 1 98.3	Total Scope 2 115.9	Total Scope 3 1994.6	Total = 2208.7	Figures signed off by CM - cross checked by LS