



# CARBON REDUCTION PLAN

---

MAY 2025

**NETZERO**<sup>20</sup><sub>50</sub>

**Dextra**  
GROUP PLC



## CONTENTS

Streamlined Energy and Carbon Reporting / Greenhouse Gas (GHG) Emissions	2
2024 emissions	3
Energy consumption	5
Solar PV	7
Intensity ratios	9
Carbon Offsets	10
Efficiency Measures Taken	12
Objectives for 2025	12
Commitment to the Environment	13
Methodology	13

# DEXTRA GROUP - CARBON REDUCTION PLAN

## Streamlined Energy and Carbon Reporting / Greenhouse Gas (GHG) Emissions

In line with the Greenhouse Gas Protocol (GHG) Corporate Accounting and Reporting Standard, Dextra continues to be engaged in a process aimed at reducing energy and greenhouse gas emissions.

Dextra maintains scopes 1, 2 and 3 emissions, which include electricity and natural gas. Dextra also maintain transport emissions inclusive of company owned and operated vehicles, employee owned and operated vehicles (whereby mileage is claimed against the company). This year Dextra are also reporting additional Scope 3 upstream emissions in the form of Purchased goods and services, Capital spend, Waste, Business travel and Employee commuting.

Dextra maintains a large solar array on our buildings at the premises in Gillingham, Dorset and as the final solar installation was completed during 2024, generation output has been included within the kWh figures reported this year.

Dextra previously devised a strategy to reduce overall carbon footprint significantly including:

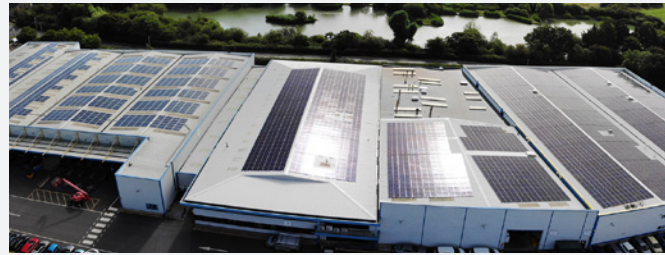
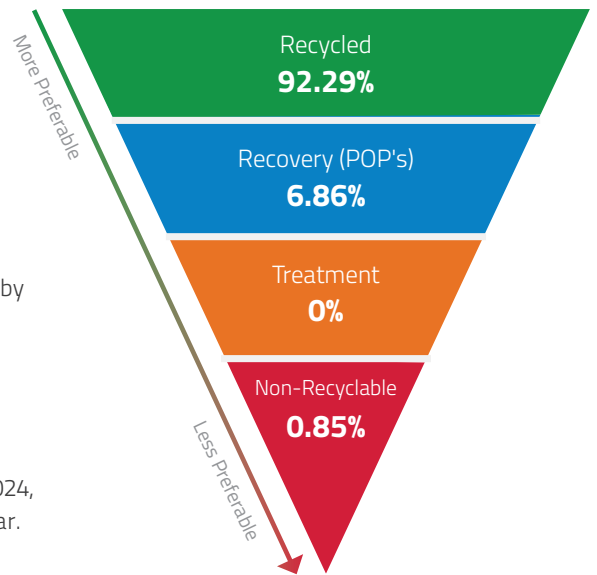
- Encouraging employees to purchase renewable technology cars i.e., hybrids, battery electric; fully electric and plug in hybrid now as preference on company car policy,
- Purchasing energy efficient equipment where appropriate in offices,
- Replacing HVAC systems with energy-efficient equipment where possible,
- Adopting behavioural change measures where possible.

The above themes continue to be extolled within our business. Further, we also maintain a carbon offset programme and tree planting scheme. The diverse range of habitats provide great benefits for biodiversity and planned management and planting programmes ensure that these environments not only act as important stores for carbon (as well as continuing to sequester carbon), they are also vitally important to store and clean water and purify the air.

Dextra operates a full waste and electrical and electronic equipment (WEEE) recycling service through its delivery fleet, which are backed filled with waste luminaires, reducing unnecessary journeys. Over 95% of all equipment and products collected by Dextra are either recycled or reused.

Dextra has embraced green energy in its manufacturing process, further reducing the company's environmental impact and carbon footprint. The installation of solar arrays generate power to support operational functions and manufacturing equipment. Further benefits are realised through charging hybrid and electric vehicles operated by the company. Dextra are continually striving to source the most innovative, energy efficient and sustainable equipment for its manufacturing processes.

How did we dispose of our waste in 2025?



2022

**595,130**  
total solar  
generation in kW/h

2023

**1,206,246**  
total solar  
generation in kW/h

2024

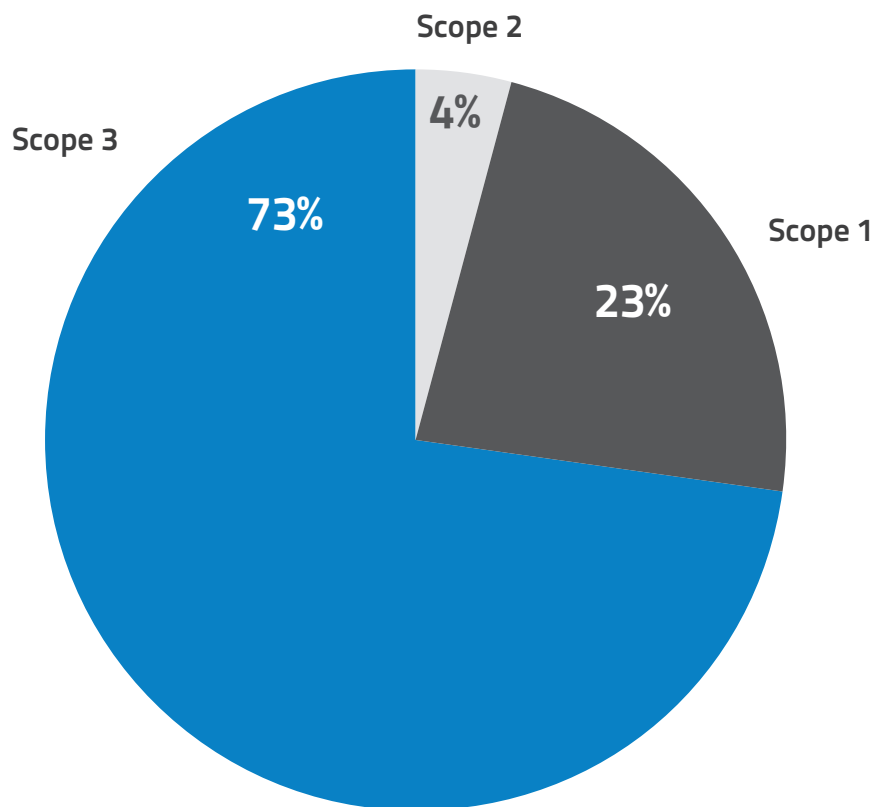
**1,438,440**  
total solar  
generation in kW/h

## 2024 emissions

Dextra Group's calculated carbon footprint for the 2024 fiscal year is **5,999.22 tCO<sub>2</sub>e**, which is broken down as follows:

	Tonnes CO <sub>2</sub> equivalent (TCO <sub>2</sub> e)
Scope 1	1,401.19
Scope 2	238.51
Scope 3	4,359.52
TOTAL	5,999.22

2024 Recorded Emissions % by scope

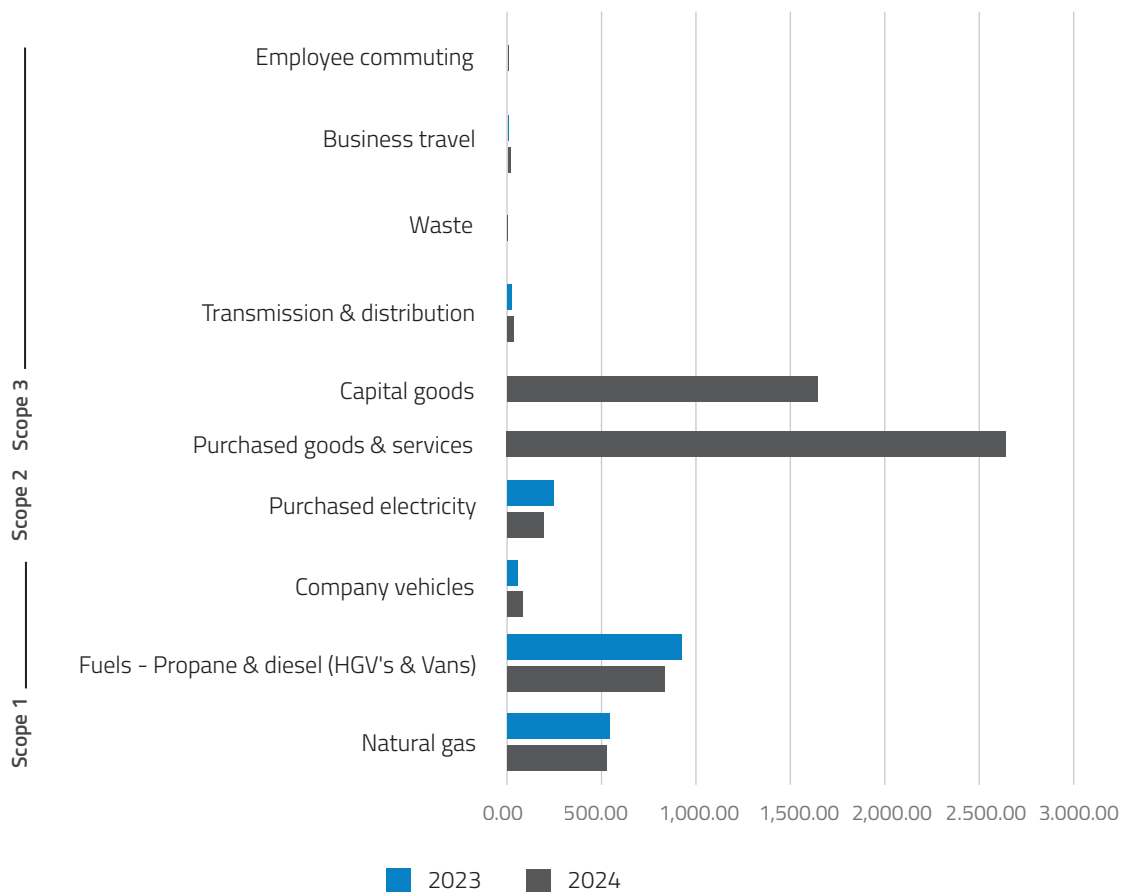


# DEXTRA GROUP - CARBON REDUCTION PLAN

The below analysis compares 2024 emissions with those reported for 2023, noting good reductions in gas and purchased electricity emissions. Overall, our emissions have increased as we are now reporting more Scope 3 categories than in previous years.

Scope	Fuel	2024 tCO <sub>2</sub> e	2023 tCO <sub>2</sub> e	tCO <sub>2</sub> e difference	% difference
Scope 1	Natural gas	537.94	564.10	-26.16	-4.64
Scope 1	Fuels - Propane & diesel (HGV's & Vans)	812.89	882.07	-69.18	-7.84
Scope 1	Company vehicles	50.36	42.00	8.36	19.89
Scope 2	Purchased electricity	222.08	259.77	-37.69	-14.51
Scope 3	Category 1 - purchased goods & services	2,667.05		2,667.05	
Scope 3	Category 2 - capital goods	1,648.55		1,648.55	
Scope 3	Category 4 - transmission & distribution	27.08	22.47	4.61	20.49
Scope 3	Category 5 - waste	3.16		3.16	
Scope 3	Category 6 - business travel	12.75	1.60	11.15	694.97
Scope 3	Category 7 - employee commuting	0.93		0.93	
Total		5,982.79	1,772.02	4,210.77	237.62

## 2023 v 2022 tCO<sub>2</sub>e comparison



# DEXTRA GROUP - CARBON REDUCTION PLAN

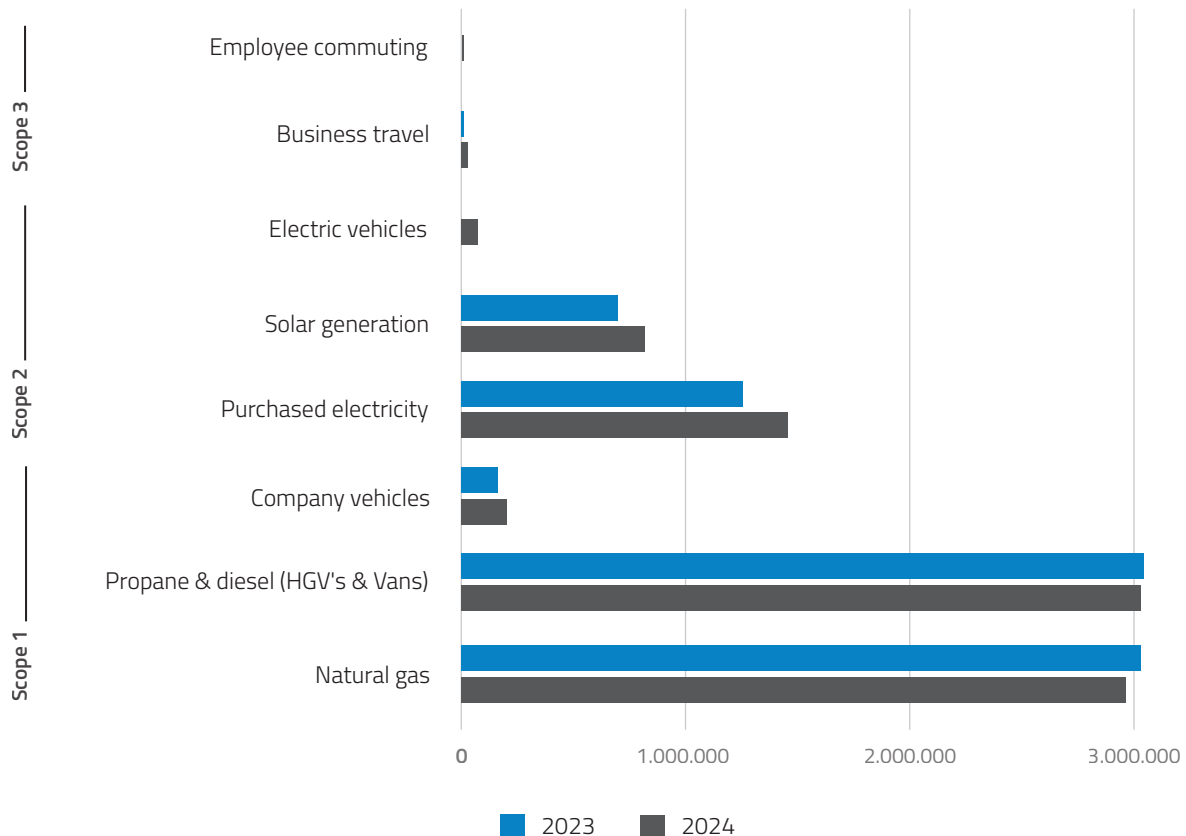
## Energy consumption

Dextra Group's calculated total energy consumption for 2024 is **8,951,016.72 kWh** which is broken down and compared to 2023 consumption in the following table:

Scope	Fuel	2024 kWhs	2023 kWhs	difference kWhs	% difference
Scope 1	Natural gas	2,941,149	3,083,693	-142,544	-4.26
Scope 1	Fuels - Propane & diesel (HGV's & Vans)	3,404,789	3,444,685	-39,896	-1.16
Scope 1	Company vehicles	206,655	173,934	32,721	18.81
Scope 2	Purchased electricity	1,479,637	1,254,475	225,162	17.95
Scope 2	Solar generation	815,115	668,005	147,110	22.02
Scope 2	Electric vehicles	79,264		79,264	
Scope 3	Category 6 - Business travel	20,585	6,875	13,711	199.44
Scope 3	Category 7 - Employee commuting	3,823		3,823	
<b>Total</b>		<b>8,951,017</b>	<b>8,631,666</b>	<b>319,350</b>	<b>3.70</b>

We are pleased to report reduction in consumption in natural gas and fuels. The increase in solar generation is also positive. As with emissions, Scope 3 consumption has increased due to additional categories being reported this year.

### 2024 v 2023 kWh comparison



# DEXTRA GROUP - CARBON REDUCTION PLAN

## Energy consumption by unit

A summary of our total consumption energy, measured in kWhs, for each of our units across our site compared to the previous year can be assessed in the below tables.

Electricity kWh by Unit comparison	2024	2023	difference	% difference
Unit 1A	9,381			
Unit 1	8,013	6,615	1,398	21.13
Unit 2	10,897	39,728	-28,831	-72.57
Unit 3	4,583	5,955	-1,372	-23.04
Unit 4	17,904	1,340	16,564	1,236.14
Unit 14	52,891	24,831	28,060	113.00
Unit 15	11,215	10,246	969	9.45
Unit 16	173,176	201,430	-28,254	-14.03
Unit 17	674,162	481,044	193,118	40.15
Unit 18	130,623	117,982	12,641	10.71
Unit 23	124,907	117,683	7,224	6.14
Unit 24	83,809	70,780	13,030	18.41
Unit 27	19,342	9,272	10,070	108.61
Unit 28	47,320	43,519	3,801	8.73
Unit 35	99,415	124,052	-24,637	-19.86
EV Chargers	12,000			
<b>Total</b>	<b>1,479,637</b>	<b>1,254,475</b>	<b>203,781</b>	<b>16.24</b>

Gas kWh by Unit comparison	2024	2023	difference	% difference
Unit 1A	1,789	3,146	-1,357	-43.13
Unit 1	24,976	27,064	-2,089	-7.72
Unit 2	7,234	4,764	2,470	51.85
Unit 3	50,824	31,527	19,296	61.21
Unit 4	56,219	17,243	38,976	226.04
Unit 12	0	9,821	-9,821	-100.00
Unit 14	25,918	37,471	-11,553	-30.83
Unit 16	80,876	157,614	-76,738	-48.69
Unit 17	2,063,173	2,165,782	-102,609	-4.74
Unit 23	13,191	23,484	-10,292	-43.83
Unit 24	413,646	377,662	35,984	9.53
Unit 27	201			
Unit 28	127,140	142,661	-15,522	-10.88
Unit 35	75,964	85,454	-9,491	-11.11
<b>Total</b>	<b>2,941,149</b>	<b>3,083,693</b>	<b>-142,745</b>	<b>-4.63</b>

# DEXTRA GROUP - CARBON REDUCTION PLAN

## Solar PV

During 2024 we have added Solar PV to more of our units and benefit from additional self-generated electricity. The following tables compare our solar generation, consumption and export in 2024 to 2023:

Year on Year Solar kWh comparison	Generated kWh			
	2024	2023	difference	% difference
Unit 1A	1,310			
Unit 1	6,125			
Unit 2	39,320			
Unit 14- 15	46,810			
Unit 16	263,520	221,267	42,253	19.10
Unit 17	439,470	345,089	94,381	27.35
Unit 18		187,453		
Unit 23	195,490	203,065	-7,575	-3.73
Unit 24	135,920			
Unit 27	37,040	35,735	1,305	365
Unit 28	71,720	62,177	9,543	15.35
Unit 35	183,110	151,460	31,650	20.90
<b>Total</b>	<b>1,419,835</b>	<b>1,206,246</b>	<b>213,589</b>	<b>17.71</b>

Year on Year Solar kWh comparison	Consumed kWh			
	2024	2023	difference	% difference
Unit 1A	550			
Unit 1	5,955			
Unit 2	5,070			
Unit 14- 15	23,960			
Unit 16	134,570	105,775	28,795	27.22
Unit 17	344,460	266,219	78,241	29.39
Unit 18		93,123		
Unit 23	112,060	115,247	-3,187	-2.77
Unit 24	70,860			
Unit 27	14,720	8,979	5,741	63.94
Unit 28	32,010	24,363	7,647	31.39
Unit 35	70,900	54,299	16,601	30.57
<b>Total</b>	<b>815,115</b>	<b>668,005</b>	<b>133,838</b>	<b>20.04</b>

Year on Year Solar kWh comparison	Exported kWh			
	2024	2023	difference	% difference
Unit 1A	760			
Unit 1	170			
Unit 2	34,250			
Unit 14- 15	22,850			
Unit 16	128,950	115,492	13,458	11.65
Unit 17	95,010	78,870	16,140	20.46
Unit 18		94,330		
Unit 23	83,390	87,818	-4,428	-5.04
Unit 24	78,050			
Unit 27	22,320	26,756	-4,436	-16.58
Unit 28	39,710	37,814	1,896	5.01
Unit 35	112,210	97,161	15,049	15.49
<b>Total</b>	<b>617,670</b>	<b>538,241</b>	<b>37,679</b>	<b>7.00</b>

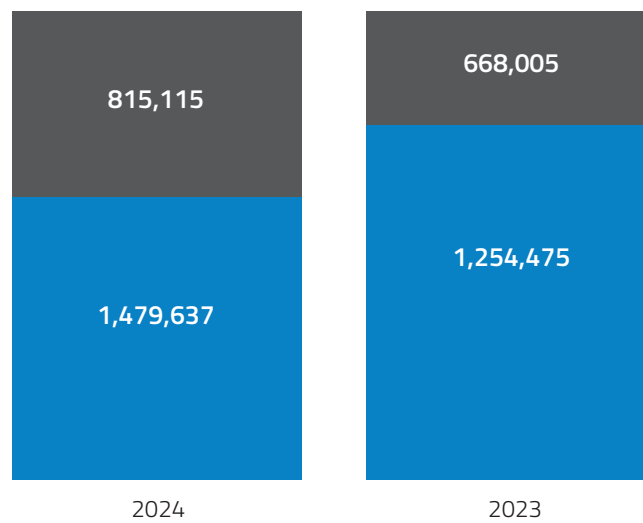
# DEXTRA GROUP - CARBON REDUCTION PLAN

Overall electricity consumption has increased in 2024 compared to 2023, which is a result of increased productivity. We are pleased to also report an increase in solar generation which reduces our reliance of purchased electricity from national grid.

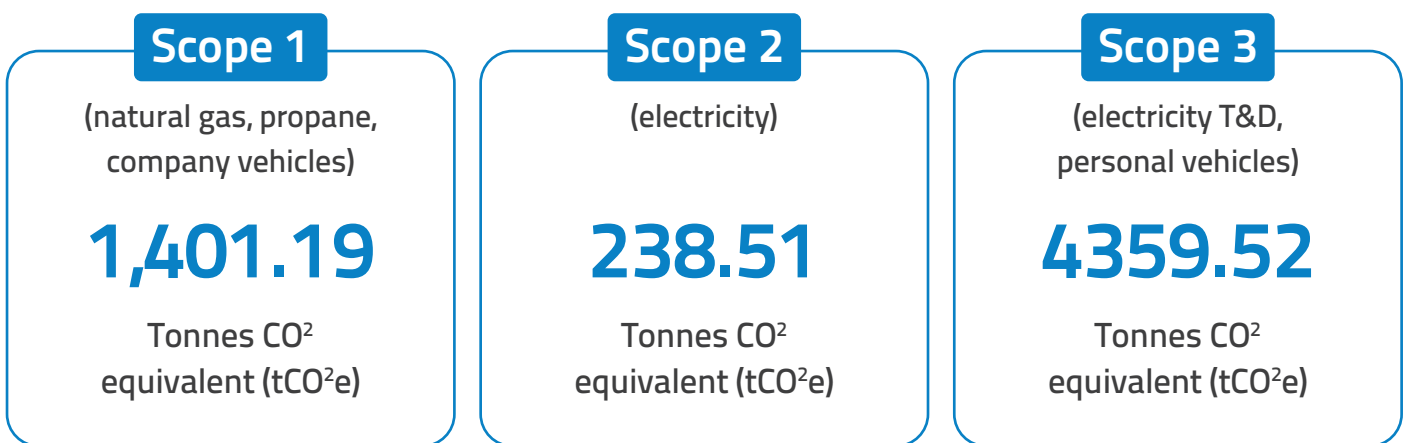
Source of electricity	2024	2023	difference	% difference
Purchased electricity	1,479,637	1,254,475	225,162	17.95
Consumed solar	815,115	668,005	147,110	22.02
<b>Total</b>	<b>2,294,752</b>	<b>1,922,480</b>	<b>372,272</b>	<b>19.36</b>

## Source of electricity

■ Purchased electricity
 ■ Consumed solar



## 2024 Emissions



**Total = 5,999.22 tCO<sup>2</sup>e**

Scope 1, 2 and scope 3 carbon intensity **0.25 (tCO<sub>2</sub>e/square feet)**

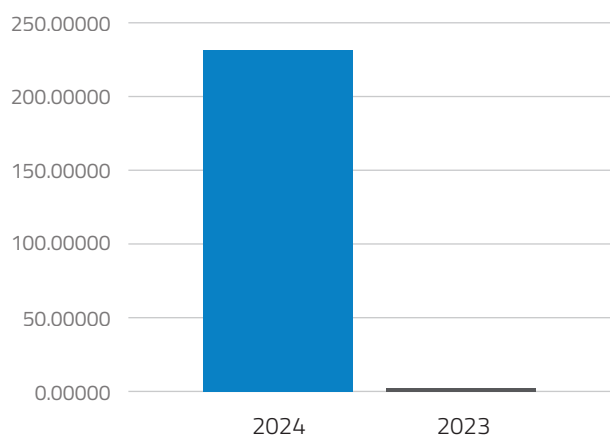
The intensity metric is based on a total square footage of 24,312. Emissions have Increased by **238.55%** since our previous reporting period, due to additional emissions being reported this year.

## Intensity ratios

The intensity ratio of floor area remains the same as last year at **24,312 square feet** and the below tables and graphs show the intensity ratio calculated for this year compared to last year for both emissions and consumption:

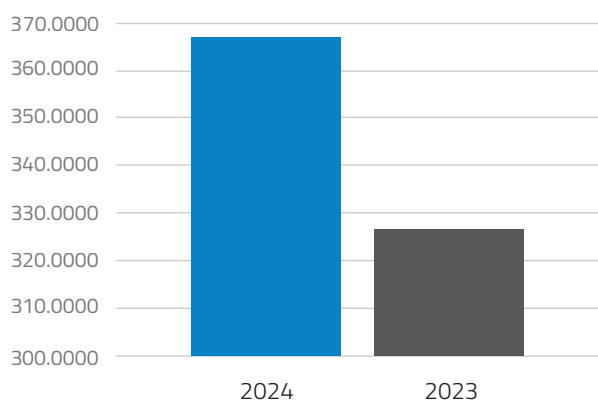
	2024	2023	difference	% difference
Intensity ratio - kgCO <sup>2</sup> e/floor area	246.08383	0.07289	246.0109	337,524.85

### Intensity ratio - kgCO<sup>2</sup>e/floor area



	2024	2023	difference	% difference
Intensity ratio - kWh/floor area	368.1728	327.2782	40.8946	12.50

### Intensity ratio - kWh/floor area



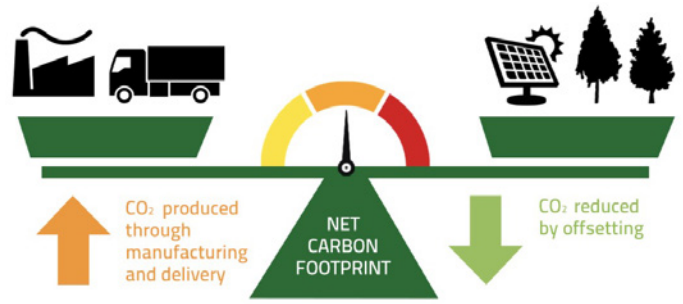
Overall, Dextra Group plc are pleased to report an excellent year in reductions of emissions and consumption in Scope 1. We continue to remove our reliance from importing electricity from the National Grid as we become more self-sufficient via solar generation. We are also pleased to have implemented processes to record more of Scope 3 emissions and will report on progress against these in the next period.

## Carbon Offsets

Despite all of the adopted sustainable innovations some CO<sub>2</sub> will unavoidably be released as the result of its manufacturing and business operations. In 2018 Dextra Group initiated a number of carbon offsetting measures on an estate in Exmoor.

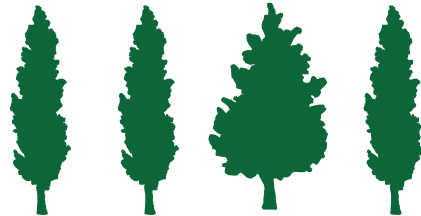
They included changes to existing habitat management and a comprehensive carbon sequestration scheme. Across its 900 acres the estate working with DEFRA, Natural England and other stakeholders, is planting additional trees which absorb CO<sub>2</sub> and create a 'carbon bank' at an equivalent rate of 1 tonne of CO<sub>2</sub> per tree over its lifetime.

All calculations are monitored, assessed and verified via an independent specialist consultant. Implementing changes to the management of the land benefits existing habitats providing



great benefits for biodiversity and planned management and planting programmes ensure that these environments not only act as important stores for carbon (as well as continuing to sequester carbon), they are also vitally important to store and clean water and purify the air.

**900 acres** of woodland and farmland managed sustainably with



**48,620**  
trees planted since 2018

storing

**70,087**

tonnes of CO<sub>2</sub> whilst capturing an additional **1013 tonnes per annum**



An ambitious tree & habitat planting programme was **completed in 2023**.

The diverse range of habitats provide **great benefits for biodiversity**.

**Planned management and planting programmes ensure** that these environments not only act as important stores for carbon (as well as continuing to sequester carbon), they are also vitally important to store and clean water and purify the air.



# DEXTRA GROUP - CARBON REDUCTION PLAN



Dextra have a longstanding commitment to tackling climate change. Calculated carbon footprint for the current financial year is **5,999.22 tCO<sub>2</sub>e**, (noting that more emissions are being reported this year) whilst energy consumption for electricity, natural gas and transport was **8,951,016.72 kWh (8,951.02 MWh)**, which also includes solar generation.

Dextra have secured a REGO backed renewable electricity contract from October 2024. Therefore, the below emissions have been calculated using the market based methodology.

Scope 1 TOTAL			1,401.18 tCO <sub>2</sub> e
Scope 1	Natural gas		537.94
Scope 1	Fuels (incl HGV's)		812.89
Scope 1	Company owned cars		50.36

Scope 2 TOTAL			238.51 tCO <sub>2</sub> e
Scope 2	Purchased electricity		222.08
Scope 2	Electric vehicles		16.43

Scope 3 TOTAL			4,359.52 tCO <sub>2</sub> e
Scope 3 – Category 1	Purchased goods and services		2,667.05
Scope 3 – Category 2	Capital goods		1,648.55
Scope 3 – Category 4	Transportation & Distribution		27.08
Scope 3 – Category 5	Waste generated in operations		3.16
Scope 3 – Category 6	Business travel		12.75
Scope 3 – Category 7	Employee commuting		0.93
<b>TOTAL emissions</b>			<b>5,999.22 tCO<sub>2</sub>e</b>

N.B. Purchased electricity was non renewable until October 2024 and assumption that electric vehicles used non-renewable energy too.

## Efficiency Measures Taken

- 1) Reduced our commercial fleet by 3 now running 17 HGV's
  - 2) Tyre pressures checked daily and logged at every vehicles 6 weekly inspection
  - 3) Replaced the diesel pressure washer with an electric powered one
  - 4) HGV fleet all fitted with speed limiters to 56 mph
  - 5) Reviewing energy usage monthly
  - 6) Detailed product redesign for use within a circular economy
  - 7) Continued reduction on reliance on fossil fuel company vehicles
  - 8) Moved to a REGO backed renewable electricity contract from October 2024
- 

## Objectives for 2025

- 1) Lighting: Continue to evolve and install low energy lighting across our building portfolio
- 2) Continual review of existing office equipment and company policies
- 3) Reviewing supply contracts to determine feasibility of renewable energy
- 4) Compliance of the Energy Savings Opportunity Scheme (ESOS) phase 3
- 5) Expansion to the current suite of dedicated EV charging point parking places
- 6) Introduce yet further plastic recycling measures where practicable
- 7) Timers to be put on all vending machines so that they only operate during working hours, in order to reduce Dextra Group's electricity usage by 40%
- 8) Purchase leak detection equipment (i.e. Ultrasonic Acoustic Detector), and implement an inspection programme so that weekly checks for leaks are carried out
- 9) Send less than 1.3% of all on-site waste to landfill
- 10) Continue to plant more trees on the Exmoor Estate with the target of planting another 10,000



# DEXTRA GROUP - CARBON REDUCTION PLAN

## Commitment to the Environment

Dextra Group has been fully committed to UK manufacturing for over 47 years, never shifting its emphasis from the importance of producing high quality lighting products on home soil whilst delivering an industry leading service to its clients.

A rapidly changing world highlights the need to change our consumption patterns and minimise waste. By adopting the principles of a circular economy, maximising product longevity and focusing our design efforts on ease of repair and upgrade we can bring obvious benefits to our clients whilst lessening our collective environmental impact.

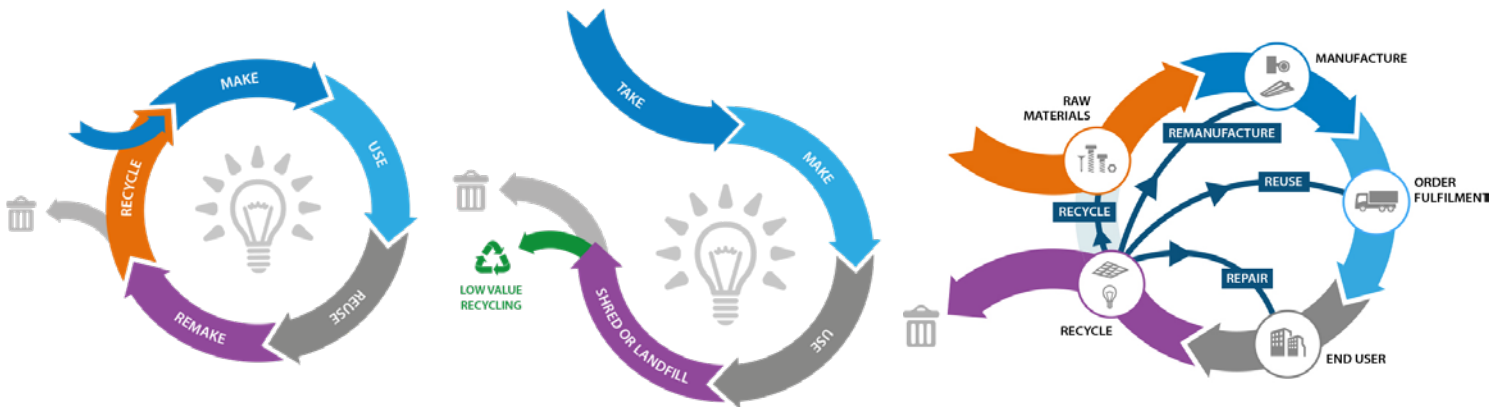
At Dextra we have taken great steps towards improving the sustainability of our product ranges:

- Our luminaires are designed for simple repair and end of life upgrade in the field
- All components are mounted using standard fasteners allowing simple replacement with commonly available tools
- Only components from European brands such as Philips, Osram and Tridonic are used, ensuring replacement parts are widely available and that they offer state of the art life expectancy

- We use lithium batteries with substantially longer life expectancy than traditional chemistries such as Nickel Cadmium or Nickel Metal Hydride.
- We use premium LEDs offering exception life expectancy up to L90 at 80,000 operating hours ensuring both longevity as well as best in class efficiency reducing power consumption and therefore minimising CO2 emissions.

In order to ensure transparency with regards to the environmental impact of both our products and our factory we have invested heavily in supporting data and are able to offer TM65 embodied carbon calculations for every product we manufacture covering nearly 20,000 product SKUs, as well as TM66 CEAM assessments for all of our product ranges.

We are continuously developing both new and existing products to reduce embodied carbon and improve their efficiency, longevity and ease of repair to further minimise our environmental impact. This process extends beyond the luminaire to our packaging and factory processes where we have eliminated all single use plastics, use only plain card boxes with paper tape which are easily recycled and have invested heavily in energy efficient equipment and substantial solar installations in order to minimise our carbon footprint.



Dextra Group will continue to operate the business in an ever increasing ecologically responsible manner that minimises risk to our, environment, employees, customers and the wider community.

Dextra Group is proud to operate an ISO Integrated Management System. The accreditation confirms that Dextra Group meets the highest of international environmental standards.

## Methodology

Dextra have reported all of emission sources under the Companies Act 2006 (Strategic Report and Director's Reports) Regulations 2013 as required. Reporting of calculated emissions is in line with the GHG Protocol Corporate Accounting and Reporting Standard and emission factors from the UK Government's GHG Conversion Factors for Company Reporting 2024. In addition, Dextra are now choosing to monitor and report non mandatory upstream emissions within Scope 3.

The reporting period is the financial year 2024, the same as that covered by the Annual Report and Financial Statements. The boundaries of the GHG inventory are defined using the operational control approach. In general, the emissions reported are the same as those which would be reported based on a financial control boundary.

This statement will be reviewed and updated in May 2026 in line with our SECR and ESOS reporting.

Issued: 31<sup>st</sup> May 2025