



Recolight Carbon Reduction Plan

Publication date: 10 August 2025

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and was initially drafted by a third-party Sustainability Consultant, Holly Arnold of Planet A, and then updated by Recolight staff. See 'Declaration and Sign-off' for more information.

Our Commitment

Recolight is committed to achieving Net Zero emissions by 2040.

To achieve this, Recolight has set two interim targets:

1. A 50% reduction in Scope 1, 2 and Business Travel by 2030, from a baseline measurement of Recolight's 2024 footprint.
2. A 25% reduction in carbon emissions per tonne of waste collected, by 2030, also based on the 2024 baseline.

The Challenge

Our largest emissions source is freight transport of WEEE materials - an area we are actively addressing through operational changes and supplier/collection point engagement. However, we recognise that meeting our long-term targets depends heavily on the future availability of low-carbon HGV technologies from our logistics partners, which are currently limited.

Race to Zero Committed

By committing to reduce emissions through the SME Climate Hub, Recolight has been counted in the UN Climate Change High-Level Champion's Race to Zero campaign. They therefore collaborate with thousands of businesses and governments globally to reach net zero emissions by 2050.

Recolight: Recycling & Circularity

Recolight is the leading UK WEEE compliance scheme for the lighting industry, taking on responsibility for its members' WEEE compliance, giving their customers access to the UK's most comprehensive free waste electricals collection and recycling service, and helping to ensure that as many lighting products as possible are kept out of landfill. The company also implements a range of policies to prioritise reuse and remanufacture over recycling. As a result, since its founding in 2007, Recolight has funded the recycling of over 370 million lamps, LEDs and luminaires, more than all other UK WEEE schemes put together.



Introduction

Carbon Reduction Plan (CRP) Scope

The scope of Recolight's CRP and Carbon Measurement covers their office and business operations. Recolight has the largest UK network of recycling drop-off locations for all WEEE lighting. To capture their freight emissions more accurately Recolight has created an internal Environmental Management System that tracks freight travel using the weight and estimated distance data of each trip and can therefore estimate the carbon emissions for each waste movement.

Carbon Accounting System

Recolight has chosen to use the Government-aligned tool, Climate Essentials (CE), as their carbon accounting software. Emissions will be measured annually through the tool and disclosed publicly through updates to this CRP.

Methodology

For carbon emissions and conversion factors, CE refers to the Greenhouse Gas Conversion Factors formerly published by the Department for Business, Energy & Industrial Strategy (BEIS) and Defra, and now published by the Department for Energy Security & Net Zero (DESNZ). These are updated annually. Where BEIS/DESNZ factors are not available, Climate Essentials (CE) applies other recognised conversion factors from well-established organisations or peer-reviewed studies. CE updates the most recently available factors annually.

For expenditure-based Scope 3 emissions (used predominantly for purchased products and services), CE uses the latest dataset based on Standard Industrial Classification (SIC) codes published by Defra and the UK Government.

The carbon footprint from freighting WEEE materials is calculated using documented material weights and estimated transport distances. For these movements, the HGV (non-refrigerated, average laden, tonne-km) conversion factor was applied. Recolight aims to refine this methodology over time, recognising that the assumptions inherent in the calculation may not always perfectly reflect actual conditions.

Scopes

According to the [GHG Protocol](#), carbon emissions emitted by organisations and their value chain can be categorised into Scope 1, Scope 2, and Scope 3.

- **Scope 1** emissions are direct greenhouse (GHG) emissions that occur from sources that are controlled or owned by an organisation (e.g., emissions associated with fuel combustion in boilers, furnaces, vehicles).
- **Scope 2** emissions are indirect GHG emissions associated with the purchase of electricity, steam, heat, or cooling. Although Scope 2 emissions physically occur at the facility where they are generated, they are accounted for in an organisation's GHG inventory because they are a result of the organisation's energy use.
- **Scope 3** emissions are the result of activities from assets not owned or controlled by the reporting organisation, but that the organisation indirectly impacts in its value chain. Scope 3 emissions include all sources not within an organisation's Scope 1 and 2 boundaries.

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.

Baseline Year: 2024

Financial Year: 1 January - 31 December

Additional Details relating to the Baseline Emissions calculations.

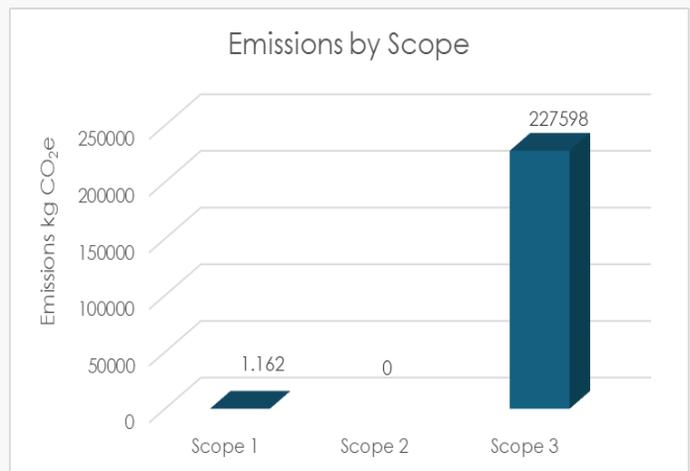
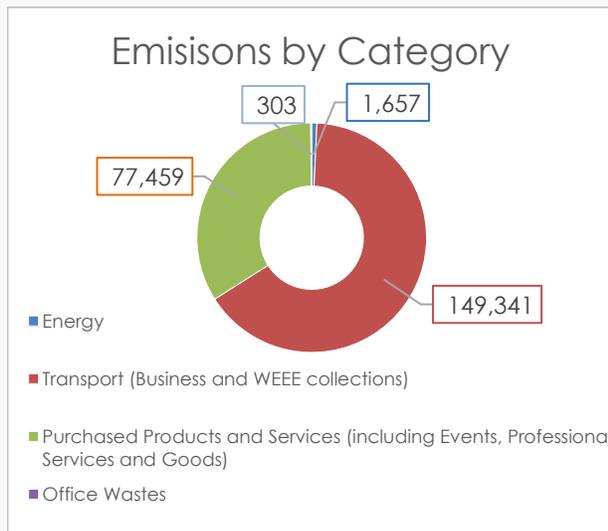
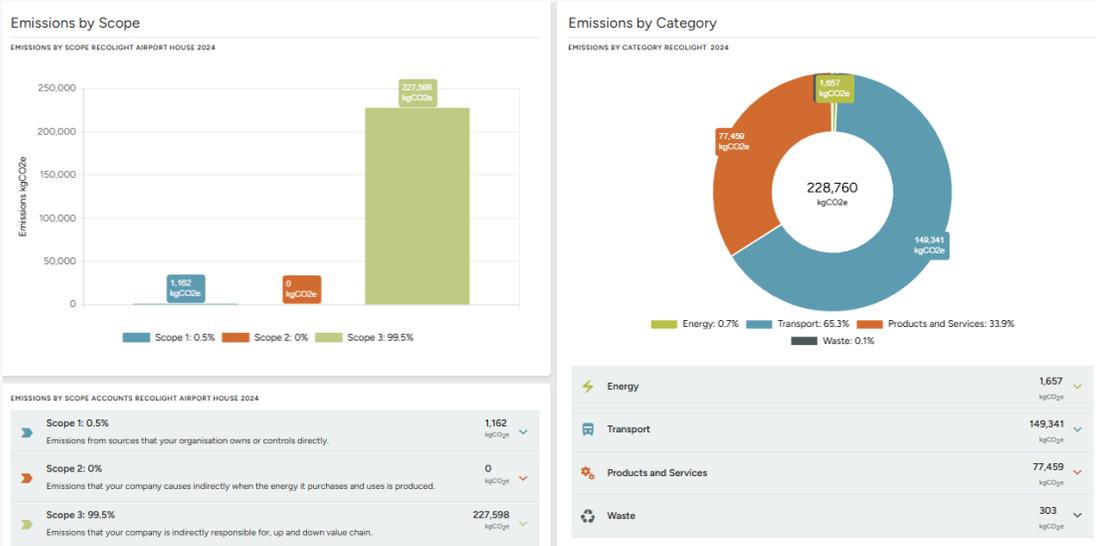
Recolight first measured their total GHG emissions for calendar year 2019. However, 2024 is the first year Recolight has measured their total GHG Emissions using the CE tool and so it has been chosen as an accurate reflection of their business model going forward, and is the baseline year that has been set.

EMISSIONS	TOTAL (t CO ₂ e)
Scope 1	1.162
Scope 2	0.0
Scope 3 Included Sources: <ul style="list-style-type: none"> ● Upstream transportation and Distribution (Transport of WEEE) ● Water ● Purchased goods and services ● Capital Goods ● Events ● Waste generated in operations ● Business travel & hotel stays ● Refrigerants (AC & Fridges) ● Employee commuting and homeworking 	227.598
Total Emissions	228.760 t CO ₂ e

Baseline Intensity Emissions

Intensity emissions help organisations understand emission reduction regardless of company growth e.g. increased revenue or employing more people. These can be calculated and compared annually to track progress.

INTENSITY TYPE	2024
Employee Intensity Emissions tCO ₂ e / FTE	12.71 † CO ₂ e/FTE
Intensity By Revenue tCO ₂ e / Revenue	0.065 kg CO ₂ e/£
Intensity per tonne of waste collected	88.23 kg CO ₂ e/t



Emission Reduction Targets

The SME Climate Commitment

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

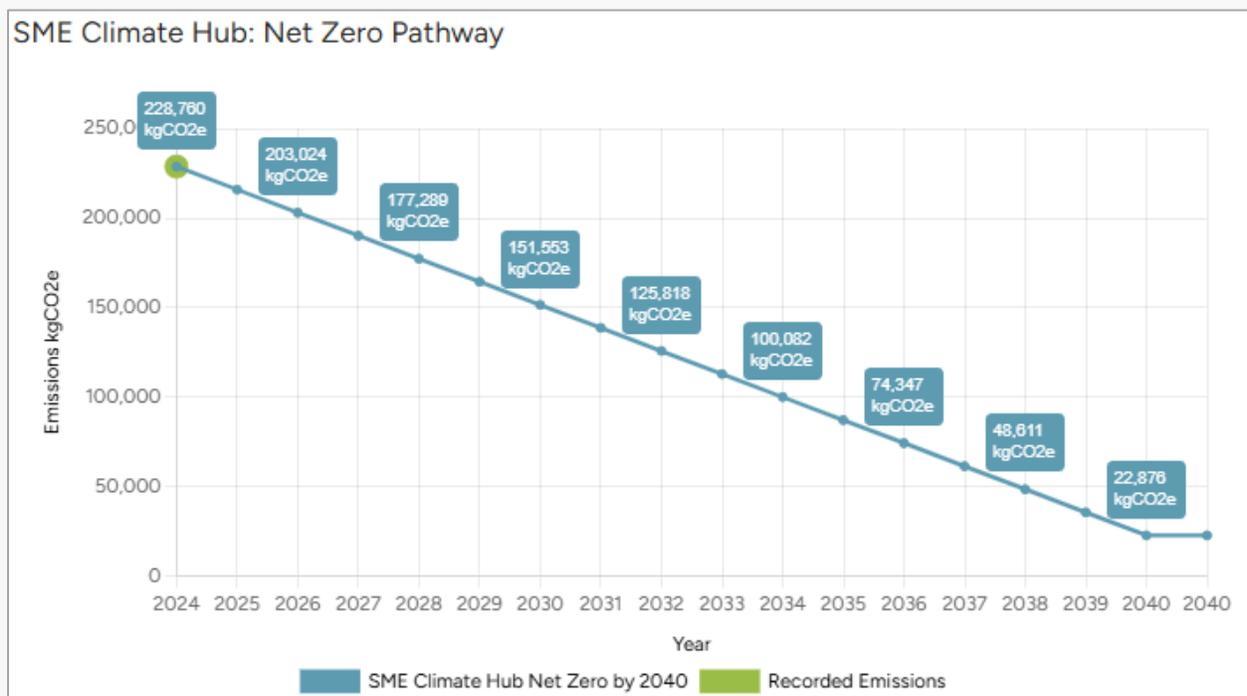
- Halve greenhouse gas emissions associated with Scope 1, 2, and business travel by 2030
- Achieve a 25% reduction of carbon emissions per tonne of waste collected by 2030
- Achieve net zero emissions before 2050
- Disclose their progress on a yearly basis

Through Climate Essentials and the SME Climate Hub Recolight have set the following targets towards net zero.

Target: Reduce at least 90% of emissions of Scope 1, Scope 2 and Scope 3 emissions by 2040. Target Emissions by 2040: 22,876 kg CO₂e

Interim Targets: Reduce 50% of emissions of Scope 1, Scope 2 and business travel emissions by 2030. Target Emissions: 908.5 kg CO₂e. Achieve a 25% reduction of carbon emissions per tonne of waste collected by 2030. Target Emissions: 66.17 kg CO₂e/t

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



Completed Carbon Reduction Projects

The following environmental management measures and projects have been completed or implemented before/during Recolight's 2024 baseline. Therefore the carbon emission reduction achieved by these schemes cannot always be quantified but measures will be in effect when performing business services.

Governance

Recolight logs all transport jobs in their internal system (EMS) which allows them to track distances and move weights and therefore calculate the GHG emissions associated with transport effectively and in live time.

Energy

Recolight uses an Energy Solution provider at their premise which procure 100% renewable electricity and carbon neutral gas to businesses, this has reduced their energy emissions to under 2.5 tonnes of CO₂ (including energy transmission losses).

Transport

Recolight has moved more of their board meetings online. This has resulted in only one board member flying to a Board Meeting once a year. Recolight has implemented a "no air travel" policy for all staff.

To reduce freight emissions and make transport more efficient, Recolight have implemented/trialled a number of practices:

- Recolight are working to get their collection sites to store and fill extra containers so that more waste can be collected for each job.
- Recolight's Head of Operations has been trying to source an Electric Vehicle Supplier for HGVs. They trialled running a number of trunking jobs using an EV which was charged via solar. However, it was later determined that this would not be feasible - Recolight continues to monitor HGV EVs but has recognised the technology is not there yet.
- To reduce dedicated vehicle trips, next-day and short-notice collections/deliveries have been reduced, with a standard five-day service now in place.
- When tendering for suppliers in specific regions, depot location is included in the specification to ensure Recolight can minimise distances travelled.
- Recolight's suppliers that comply with EURO 6 Standards have incorporated electric forklifts into their operations.

Supply Chain

Recolight has included net zero requirements in their procurement of waste lamp recycling services, this has resulted in their largest supplier implementing an 80 panel rooftop solar array.

Procurement

Recolight has removed their "replace laptops and mobile phones every 3 years policy". Instead, they only replace them when they actually need replacing. In practice this has resulted in 2 years of more use. Recolight only procures refurbished laptops, not new.

Office Waste

Recolight separate office waste into dry mixed recyclables, glass, paper, and plastic films. They have also introduced a food/organic waste collection.

Events

Recolight has run a number of conferences and events over the last 3 years with >1000 delegates. Events have:

- Been paperless - all documentation (delegate list, agenda etc) is by QR code. This also applies to exhibitions attended.
- Been run at locations to make travel by public transport the default
- Served vegetarian/plant based food

Advocacy & Industry Reform

Working with the lighting industry, Recolight offers support and services to help their producer members transition to a Circular Economy. With a re-use hub, workshops, webinars, Circular Lighting report, and Circular Lighting Live, Recolight seeks to provide its members, and the wider lighting industry with both the information and the support/services for them to adopt low carbon and circular economy strategies. They have been influential in encouraging other companies to act by:

- Running multiple conferences and webinars which encourage Recolight's 200+ member companies, and other industry stakeholders, to move towards net zero, and to adopt circular economy principles.
- Chairing a WEEE industry working group to establish a net zero specification for WEEE operators.
- Being a key member of a BSI committee that produced a code of practice for the remanufacture of lighting equipment.

Carbon Reduction Plan

This Carbon Reduction Plan (CRP) has been set from a 2024 Baseline year.

Scope 1 & 2 & Energy T&L

The chart below demonstrates the baseline carbon emission for Scope 1 & 2 and energy Transmission and Losses (scope 3) broken down by category, as shown in the Climate Essentials Dashboard.

Baseline Energy Emissions

Scope	Category	Emissions (t CO ₂ e)
Scope 1	Company Facilities: Grid Gas	1.162
Scope 2	Purchased Electricity	0.0
Scope 3	Fuel & energy-related activities: Transmission & Losses	0.495

Energy

Recolight has minimised their energy emissions through procuring, via their landlords, green electricity and gas. To improve energy efficiency at the office, Recolight should review their EPC rating and if the rating falls below C they should engage with their landlords to make improvements - [SME Climate Hub provides building guidance](#).

Transport

To continue to guide low-emission employee travel, Recolight will create a 'Low Carbon Travel Policy.' This helps to encourage the use of cycling, public transport, walking and car sharing, incentivise electric vehicle use, and encourage employees to book hotels which procure green energy.

Transport Category	Emissions (tCO ₂ e)
Hotel Stays	0.738
Commuting	4.611
Air Travel	0.172
Freight	143.337
Other Travel	0.483

Freighting Goods

Freighting WEEE is Recolight's most significant impact, by some margin.

The majority of Recolight business is to manage the movement of WEEE for treatment. This includes regular freighting of waste material around the UK, and can be undertaken via vehicles (usually diesel) of different capacities and loadings, from third party suppliers who manage their own logistics. Recolight recognises the significant impact of this transport and shall continue to investigate:

- Alternative forward-thinking suppliers seeking to decarbonise their operations
- Electric Vehicle and green hydrogen solutions for HGVs
- Adopting a range of strategies to increase tonnage transported per kilometre to improve efficiency and hence to reduce carbon emissions/tonne of waste collected
- Reducing total weight of waste collected by encouraging remanufacture and reuse
- Further improvements to data accuracy

Recolight has no plans to use HVO diesel, given the range of challenges it presents.

Recolight has set ambitious targets to achieve net zero: a 25% reduction of emissions per tonne of WEEE moved relative to 2024 levels by 2030, and net zero by 2040. Ultimately achievement of these targets will depend on the availability of low carbon transport technologies.

Staff

Implement carbon literacy training for all staff to help them understand their own contribution to carbon emissions, and how they can best reduce Recolight's carbon emissions.

Products & Services

Category	Emissions (tCO ₂ e)	Target & Action
Goods: Stationary - 0.107 Food & Drink - 9.797 Electronic/IT 0 1.675	11.561	<ul style="list-style-type: none"> - Create a *Green Procurement Policy focusing on these three categories. - Encourage no/low meat and plant-based food for internal team events
Services employed	35.998	<ul style="list-style-type: none"> - **Screen Suppliers for social & Environmental Performance - Engage with them to track if they are net zero aligned and if they procure green energy
Water	0.019	<ul style="list-style-type: none"> - Engage with landlord to understand usage and improve data accuracy
Homeworking	7.663	<ul style="list-style-type: none"> - Engage employees in switching to renewable energy tariff at home (it is often cheaper).
Events	22.200	<ul style="list-style-type: none"> - Track event data during the planning/booking stage. - Continue to implement positive practices, e.g. food, travel, urban areas etc. - Choose venues which procure 100% renewable energy.

A *Green Procurement Policy should focus on:

- Reducing Environmental Impacts: Prioritise purchasing decisions that reduce environmental harm, especially in high-impact areas like machinery and technology, by considering energy efficiency, emissions, and waste reduction.
- Circular Economy Principles: Support products designed for longevity, repairability, and recyclability. Encourage suppliers with take-back or recycling programs and closed-loop production systems.
- Net-Zero Suppliers: Prioritise suppliers committed to achieving net-zero emissions, with clear carbon reduction plans (CRP) and transparent, third-party verified emissions reporting.
- Verified Certifications: Choose suppliers with recognised environmental and social certifications, such as Certified Organic, ISO 14001, B Corp, and Fair Trade, to ensure ethical and sustainable practices.
- Whole-of-Life Costing: Consider the total lifecycle impact of products, including energy use, waste, and disposal costs, to support long-term sustainability.
- Continuous Improvement: Regularly assess and report on sustainability goals, ensuring ongoing progress toward greener procurement practices.

*Create a Supply Chain Management System (spreadsheet) which screens suppliers through based on their social and environmental performance. In particular, which suppliers measure and disclose emissions, have net zero targets, and produce/procure 100% renewable energy. They should screen suppliers at least bi-annually and switch to green providers if they do not meet interim goals.

To track supplier emissions more accurately in the future, companies can upgrade to the Climate Essentials Advanced Scope 3 plan to enter Scope 1 & 2 supplier emissions into the software therefore measuring actual emissions not using industry averages.

Climate & Nature

World Wildlife Fund reports that 'Worldwide, 73% of our wildlife populations have been lost since 1970. In some areas, there has been a shocking 95% decline.' To move beyond the language of net zero, Recolight should educate and engage stakeholders on the climate *and* biodiversity crisis.

In 2022 the Kunming-Montreal Global Biodiversity Framework (GBF) was signed by nearly 200 parties at COP15, all businesses should develop a Nature/Biodiversity Strategy in line with Global Goals to halt and reverse biodiversity loss by 2030. More than half of the world's GDP is moderately or highly dependent on nature, businesses have a responsibility to take action:

- Upskill using [Business For Nature](#)'s resources, news and guides.
- Invest in nature based solutions using partners like [Earthly](#).
- Creating a biodiversity strategy using [It's Now For Nature Handbook](#).
- Restore and protect your local spaces e.g. parks, gardens, rooftops, or community gardens in collaboration with councils and environmental NGOs.
- Pay for employees to join online nature communities like [Wildya](#) so they can learn and get inspired.

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. It has been drafted by a third-party Sustainability Consultant through West London Business and the UK Government's Better Futures Programme.

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).

Signed on behalf of Recolight:

Name: Nigel Harvey

Job title: CEO

Date: 10 August 2025