

Carbon Reduction Plan

Make more possible.

PRC-000069:
Level 0 – Public

Table of Contents

Revision History	3
Carbon Reduction Plan	4
Commitment to Achieving Net Zero	4
Baseline Emissions Footprint	6
Emissions Methodology	7
Current Emissions Reporting	11
Emissions Reduction Targets	11
Carbon Reduction Projects	13
Declaration and Sign-Off	16

Revision History

Version	Date	Reason for Change
1.01	29/09/2021	First issue.
1.02	15/11/2021	Emissions improvement project two completed: employee commuting survey completed; emissions data re-baselined for 2020/21; Improvement project two removed and reference numbers re-set.
2.01	26/01/2023	Addition of document reference number to align with Connect Custom; non-UK emissions added to scope.
3.00	20/09/2023	Inclusion of emissions associated with Purchased Goods and Services and Capital Goods within scope three report; re-calculation of baseline year emissions supported by explanation; additional detail to methodology on calculation of non-UK electricity generation; revised detail for waste-generated methodology to account for use of spend-based data for Leicester site; inclusion of missed waste data for lithographic rollers to scope three; addition of 2022/23 data to report.
3.01	31/07/2024	Amendment to baseline year to reflect data calculation error in 2023 when purchased goods and services was incorporated into scope (incorrect field copied from spreadsheet calculation), associated Scope 3 emissions increase from 16,806.47 to 18,769.99; addition of new 'realised' and 'planned' carbon emission reduction initiatives.
4.00	31/07/2025	Updated to report performance in FY24/25

Carbon Reduction Plan

Commitment to Achieving Net Zero

Our aim is to ensure that our continued growth as leaders in our field is realised through sustainable and environmentally responsible practice. APS Group is, therefore, committed to achieving net zero carbon emissions by 2040. This plan encompasses our direct subsidiaries, Allied Publicity Services (Manchester) Limited and APS Group (Scotland) Limited in the United Kingdom, comprising the below locations:

- Bird Hall Lane Head Office and Main Production Site, Cheadle
- Orion Business Park Unit C and Unit D, Cheadle
- Preston Brook Secure Production Site
- Grange Business Park, Leicester
- Baker's Yard, London
- Tennant Street, Edinburgh
- Jane Street, Edinburgh
- Vincent Street, Glasgow

This plan additionally covers locations in Europe for which the business' European subsidiary – APS Group B.V. – has operational control, comprising the below locations:

- Belgium, Antwerp
- France, Paris
- Netherlands, Eindhoven
- Netherlands, Amsterdam
- Sweden, Malmo

In accordance with the requirements of Procurement Policy Note 06/21 the emissions associated with non-UK operations are reported but not included within the main emissions footprint as these locations – within the current framework of Scope 3 reporting – do not currently incur emissions within UK territory.





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: 01 February 2020 to 31 January 2021	
Emissions	Total (tCO ₂ -e)
UK Emissions – Scope 1	517.69

¹ As defined in the Technical Standard for Completion of Carbon Reduction Plans this means that “The supplier reports on all sources of carbon emissions over which it has operational control. The supplier is deemed to have operational control over a service if it has full authority to introduce and implement its operating policies”.

Baseline Year: 01 February 2020 to 31 January 2021	
Emissions	Total (tCO ₂ -e)
UK Emissions – Scope 2: Location Based	1,319.93
UK Emissions – Scope 2: Market Based	0
UK Emissions – Scope 3 ²	18,769.99
Overseas Direct Emissions	60.87
Total Emissions	20,668.49
Total UK Emissions	20,607.62

Emissions Methodology

The below table details how our emissions figures are calculated, including assumptions that have been made where uncertainties exist.

Scope	Sub-Item	Data Sources	Calculation	Notes
1	Natural gas consumption	Kilowatt hour (kWh) usage of heating gas, collected by half-hourly metering where possible or through monthly bills.	kWh x DEFRA conversion factor for KgCO ₂ -e in the reporting year.	Reported as a single figure for gas usage across the APS estate.
	Refrigerant gas leakage	Bi-annual inspections to air conditioning units on the APS estate, specifically where leakage has been identified and the 're-charge' volume required.	Kilograms of gas 'recharged' x DEFRA global warming potential factor for the reporting year.	There are three types of 'F-Gas' used in APS' air conditioning units: HFC R410A, HFC R407C and HCFC R22. F-Gas leakage is reported as a single figure for all three types of gas.
	Transport fuel consumption	Usage data from fuel cards showing litres of diesel, petrol, and liquefied petroleum gas (LPG) consumed by the transport and facilities teams.	Litres of fuel drawn x DEFRA conversion factor for KgCO ₂ -e in the reporting year.	Reported as a single figure for fuel consumption.

²This scope consists of the following sub-scopes: Purchased Goods and Services; Capital Goods; Upstream Transportation and Distribution; Waste Generated in Operations; Business Travel; Employee Commuting; Downstream Transportation and Distribution.

Scope	Sub-Item	Data Sources	Calculation	Notes
2	Purchased electricity	Kilowatt hour (kWh) usage of electricity, collected by half hourly metering where possible or through monthly bills.	<p>UK-emissions are calculated by kWh x DEFRA conversion factor for KgCO₂-e in the reporting year.</p> <p>Non-UK emissions are calculated using the European Environment Agency dataset for Greenhouse gas intensity of electricity generation in Europe by gCO₂-e/kWh x total kWh consumption in the reporting year.</p>	APS purchases 100% of electricity from renewable sources supported by REGOs, consequently our market-based figure for Scope 2 emissions within the UK is set at zero.
	Purchased Goods and Services / Upstream Transportation and Distribution	<p>Purchase data of all goods and services within the reporting year falling into the Intergraf recommendation on CO₂ emissions calculations in the printing industry:</p> <ul style="list-style-type: none"> • Substrate • Plates and cylinders • Inks and varnishes • Packaging materials • Production consumables <p>Obtained from purchase order data.</p>	Net Amount (GBP) x DEFRA Table 13 spend-based factor appropriate to the activity	The calculation uses the 'Table 13' spend-based tool and therefore represents a 'cradle-to-gate' figure which also encompasses the impact of upstream transportation and distribution.
3	Capital Goods	Total amount of all capital expenditure within the reporting year obtained from purchase order data.	Net Amount (GBP) x DEFRA Table 13 spend-based factor appropriate to the receiving business.	This is reported separately to Purchased Goods and Services/ Upstream Transportation and Distribution as all spend marked as Capital Expenditure is clearly marked as such in the purchase order 'Product Code' field.

Scope	Sub-Item	Data Sources	Calculation	Notes
3	Waste Generated in Operations	<p>Data obtained from waste transfer notes and weight reports provided by our waste management providers, including the total volume of waste collected and the 'end-of-life' process.</p> <p>This does not apply to the Leicester office, where waste is collected under contract by the Local Authority, who cannot give specific volumes of weight per customer. The 'spend-based' method is used to capture this site.</p>	<p>Tonnes of waste collected by type and end-of-life process x DEFRA conversion factor for KgCO₂-e in the reporting year.</p> <p>Where spend-based calculations are required this is based on Net Amount (GBP) x DEFRA Table 13 spend-based factor appropriate to the receiving business.</p>	<p>There are five possible end-of-life routes for waste produced by APS: Recycled, Reused, Treated, Refuse-Derived Fuel, and Landfill. Waste generated is reported as a single figure.</p>
	Business Travel	<p>Data obtained from: HR record of business mileage claimed, by vehicle type; KgCO₂-e data supplied by main travel provider for air, rail, and hotel accommodation; purchase orders raised detailing start/end points of road, taxi, rail, air, and sea travel.</p>	<p>Total miles (or kilometres where required) per mode of transport x DEFRA conversion factor for KgCO₂-e in the reporting year. In the interests of disclosing the fullest extent of our carbon impact we have chosen to include radiative forcing in our air travel, and account for this via the DEFRA conversion factor.</p> <p>Approximately 45% of the emissions for this sub-scope have been estimated using the DEFRA 'Table 13' spend-based factors (Codes 49.1-2, 49.3-5, 51 and 55) for data where only a purchase order is present.</p>	<p>Approximately 45% of the emissions associated with this factor have been estimated based on cost only, as certain purchase orders are raised as a cost and mode of transport only, with no further information. APS accepts that this is an imperfect calculation, and we recognise the need to reduce and preferably avoid any estimations. An objective has been raised to support this (project #1).</p>

Scope	Sub-Item	Data Sources	Calculation	Notes
3	Employee Commuting	Data obtained from individual employee HR records detailing: how many times per week they travel to work; the mileage for the trip to and from work ('round trip'); and the most common mode of transport.	Total miles (or kilometres where required) per mode of transport x DEFRA conversion factor for KgCO ₂ -e in the reporting year.	Reported as a single figure for employee commuting for all APS Group employees, irrespective of which site they are based at. Following the original survey in October 2021 a second survey was undertaken in June 2023 which achieved a 41.33% response rate and has replaced the previous figure used in the 2020/21 and 2021/22 reports. The data continues to be assumed as representative of the business as a whole.
	Downstream Transportation and Distribution	Job specification details entered onto APS' Operations Manager: including width, height, GSM, pages, and quantity. Where stocking method is set to 'All to stock' or 'Part to stock' then the delivery CO ₂ -e is set to zero and calculated on call-off. For all other jobs the CO ₂ -e is calculated when job is completed and moved to 'Invoiced' status on Operations Manager. The data is pulled through to APS' Sustainability Dashboard.	(Delivery weight (kg) x Delivery to KgCO ₂ -e conversion factor) + Delivery base CO ₂ -e factor. Delivery factor: 0.01 Base factor: 35	<p>The figures used for delivery KgCO₂-e were determined by tests using a range of representative print specification variations, such as size, paper, colours and quantity and carried out on several different product groups across various delivery distances ranging from 10km to 150km and various modes of transport from small van to HGV using the DEFRA conversion factors for KgCO₂-e.</p> <p>The tests revealed common denominators which could be used to generate a delivery carbon impact based on the weight of the item as a 'ready - reckoner', as the estimated KgCO₂-e fell within a tolerance of +/- 20% of the actual KgCO₂ - e. Consequently, in accordance with the Precautionary Principle of the 'Rio Declaration', we have taken the decision to add 20% to our assessed total for Downstream Transportation, thereby ensuring that we do not under report.</p> <p>We assessed that the calculation begins to fall out of an acceptable range where a delivery exceeds 50 tonnes, estimating a higher KgCO₂-e than would be calculated manually, however are comfortable with this as it will result in over-reporting of our carbon emissions, thereby introducing an element of 'carbon negative' offsetting. It is for this same reason that we have added an uplift of 20% to the figure for delivery KgCO₂ -e, representing the upper threshold of the tolerated range which ensures that APS will 'over report' as a minimum.</p> <p>We recognise that calculation of delivery by weight of product is an imperfect method of assessing carbon emissions, and as such are reviewing how best to collect the necessary data to align our calculations fully with the DEFRA conversion factors.</p>

Current Emissions Reporting

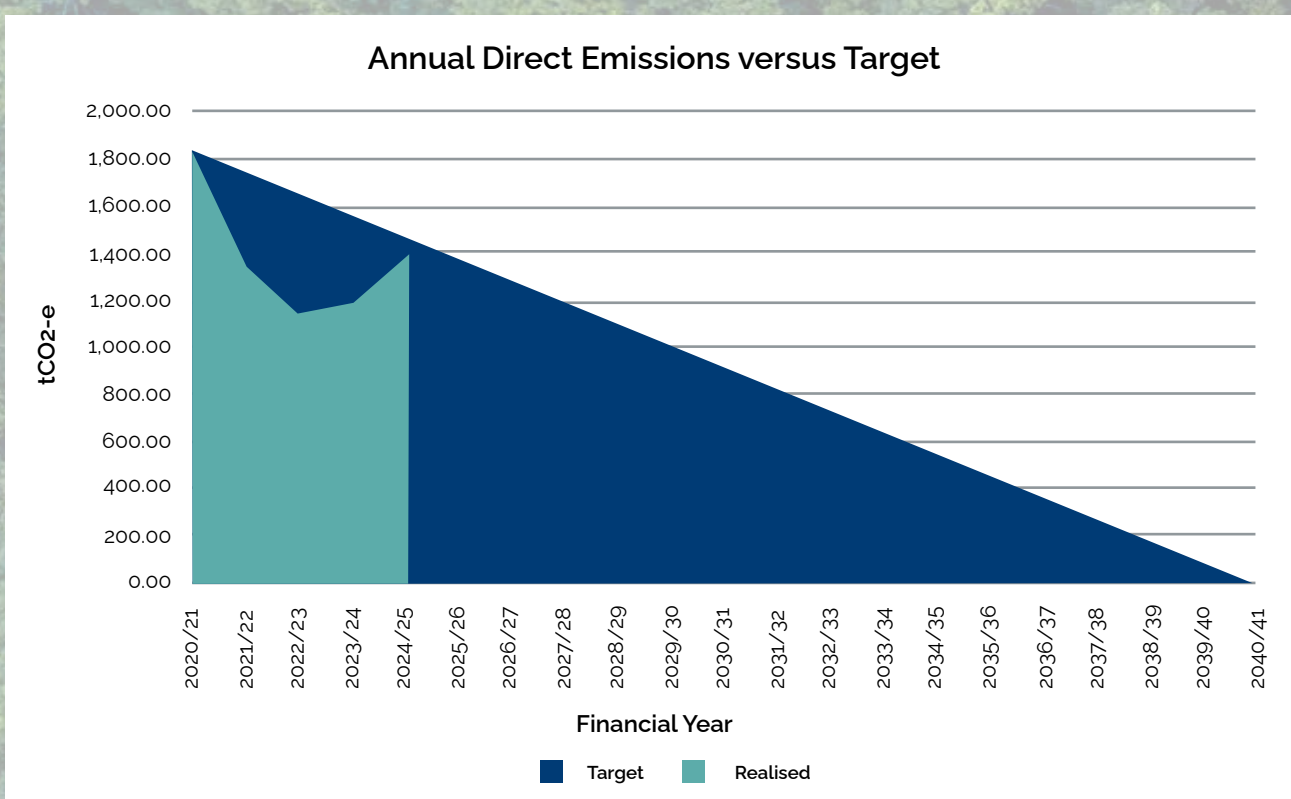
Reporting Year: 01 February 2024 to 31 January 2025	
Emissions	Total (tCO ₂ -e)
UK Emissions – Scope 1	409.72
UK Emissions – Scope 2: Location Based	976.79
UK Emissions – Scope 2: Market Based	515.04
UK Emissions – Scope 3 ³	28,777.76
Purchased Goods	7772.80
Capital Goods	48.05
Upstream Transport	263.20
Waste	23.87
Business Travel	364.83
Employee Commuting	502.56
Downstream Transport	19802.45
Overseas Direct Emissions	26.2
Total Emissions	30,705.51
Total UK Emissions	30,679.31

Emissions Reduction Targets

To continue our progress to achieving net zero we are targeting, as a minimum, a 5% fall in direct UK Scope 1 and 2 carbon emissions year-on-year to take us on a linear path to the financial year 2040/41. The below graph shows our current direct emissions footprint in teal against our 5% target in blue.

³ This scope consists of the following sub-scopes: Purchased Goods and Services; Capital Goods; Upstream Transportation and Distribution; Waste Generated in Operations; Business Travel; Employee Commuting; Downstream Transportation and Distribution.

Financial Year	UK Direct Emissions Target (tCO ₂ -e)	UK Direct Emissions Realised (tCO ₂ -e)	% Change
2020/21	1837.62	1837.62	-
2021/22	1745.74	1344.29	-27%
2022/23	1653.86	1147.12	-15%
2023/24	1561.98	1187.85	+4%
2024/25	1,470.10	1,386.51	+16%
		Average Annual Change	-6%



As we continue to refine our data reporting, and as the impacts resulting from the projects described below become known, we will continue to update this chart showing actual performance against the original target. We have not currently set a Scope 3 reduction target however we are planning on developing this over the course of 2024/25 as part of our engagement with the Science-Based Targets Initiative, which we are planning to include in the 2025 update to our Carbon Reduction Plan.

Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented since the 2020/21 baseline. The carbon emission reductions will be in effect when performing the contract, with the carbon reductions achieved by these schemes detailed below:

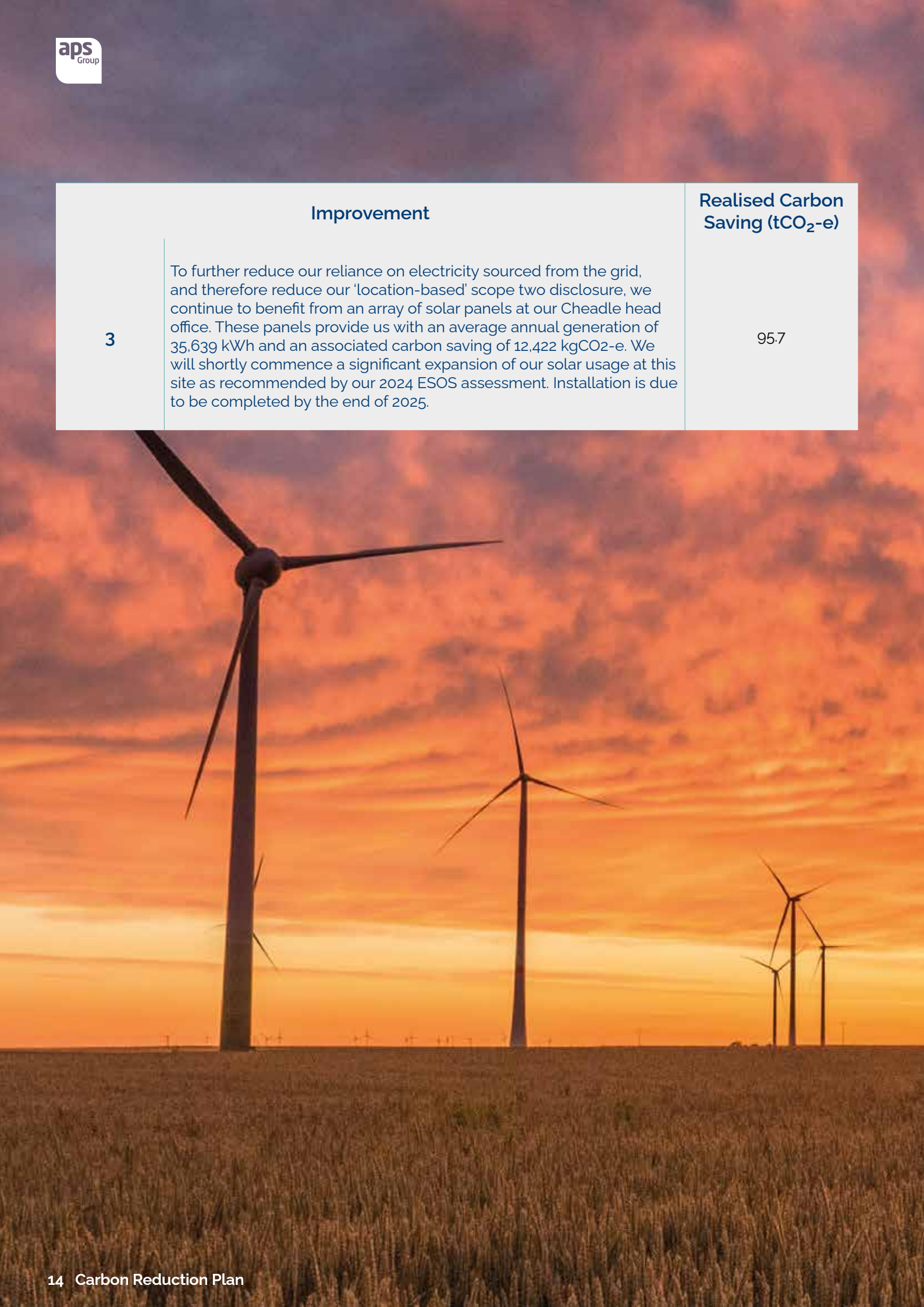
	Improvement	Realised Carbon Saving (tCO ₂ -e)
1	Relocation of secure mail production facility from previous Chester site to new Preston Brook site. Through a combination of motioned-sensor CAT2 LED lighting and de-stratification fans over our production equipment to capture and return process heat to the factory, we delivered a 62% reduction in gas and electricity consumption for secure mail production.	401.47
2	Over the period June 2023 to June 2024 we have trialled the use of paper void filler and paper tape used in distributions ran from our head office National Distribution Centre. From examination of 12 months data we have calculated the replacement of plastic with paper has resulted in reduced emissions of purchased goods and services of 4.49 tonnes of CO ₂ equivalent.	4.49

Planned Carbon Reduction Initiatives

APS Group is committed to a programme of continual environmental performance in support of both our overall ambition of achieving carbon neutrality by 2040, and in accordance with the core principles of our ISO 14001: 2015 accreditation. Recognising these commitments, we are exploring the following improvement strategies:

	Improvement	Realised Carbon Saving (tCO ₂ -e)
1	Following our 2024 ESOS report we identified opportunities at our head office site to introduce sub-metering into our operational spaces. We are targeting use of this data, across both our gas and electricity consumption, so that targets can be set, variances identified and interpreted, and remedial actions, if any, initiated. Through the ESOS process it has been estimated conservatively that such monitoring and targeting could save 2% of annual electricity and gas consumption.	11.33

	Improvement	Realised Carbon Saving (tCO ₂ -e)
3	<p>To further reduce our reliance on electricity sourced from the grid, and therefore reduce our 'location-based' scope two disclosure, we continue to benefit from an array of solar panels at our Cheadle head office. These panels provide us with an average annual generation of 35,639 kWh and an associated carbon saving of 12,422 kgCO₂-e. We will shortly commence a significant expansion of our solar usage at this site as recommended by our 2024 ESOS assessment. Installation is due to be completed by the end of 2025.</p>	95.7



Other Carbon Reduction Initiatives

Improvement	
1	APS Group will continue to refine our data capture of scope 3 with the goal of eliminating the need to sample or estimate emissions. We will achieve this through the ongoing development of our Sustainability Dashboard, assistance from third parties where necessary and enhanced data capture in APS systems.
2	We recognise that independent verification of our data capture, calculation and reporting methodology will both support Improvement #1 and will provide APS Group with assurances that we are capturing the full terms of our reporting obligation. We are intending that this will be achieved through our joining of the Science-Based Targets Initiative in 2025/26.
3	As our carbon emissions strategy continues to evolve, we recognise the need to go further than the requirements introduced by both the Streamlined Energy and Carbon Reporting (SECR) Regulations and PPN 06/21 to achieve true net zero carbon emissions. We therefore propose to introduce carbon monitoring across the remaining ten activities within the scope 3 framework not already covered by this report.
4	APS has delivered a quarterly Social Value Forum throughout the reporting period. This forum unites business-wide representatives to exchange exemplary environmental practices and propose initiatives for executive consideration. For the 2025/26 period the aim is to expand the number of stakeholders engaged in these meetings.
5	A Head of Sustainability has been recruited as a dedicated resource in the management of our sustainability proposition and delivery of our carbon reduction plan. As such, APS is in the process of improving its carbon reporting systems including data accuracy and granularity.

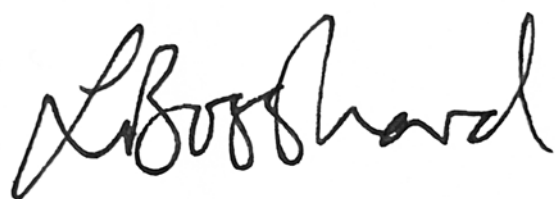
Progress against these objectives, and details of any new schemes under discussion or planned, will be reported annually in both this Carbon Reduction Plan and the APS Group's Corporate Social Responsibility Report; the Carbon Reduction Plan is and will continue to be publicly available and published on the APS Group's external website.

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 standard⁴ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting⁵.

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) Standard⁶.

This Carbon Reduction Plan has been reviewed and signed off by a member of the Board of Directors on behalf of the Board.



Laurence Bosshard
Chief Commercial Officer
31st July 2025

⁴ <https://ghgprotocol.org/corporate-standard>

⁵ <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

⁶ <https://ghgprotocol.org/standards/scope-3-standard>