

CARBON REDUCTION PLAN

Severn Trent Services

Publication date: July 2024

Commitment to achieving Net Zero

Severn Trent Services is committed to achieving Operational Net Zero emissions by 2030. This date has been selected to align with that of the Severn Trent Group and with the timescales indicated by our key customers.

Baseline emissions footprint

Baseline year: FY2023/24

Severn Trent Services formally launched its sustainability plan in FY23/24. During this period, we focused on accurately measuring and reporting emissions to provide a comprehensive dataset. As a result, we can now move forward in fully embedding our carbon reduction projects, setting targets, and tracking the progression of our plan.

Table 1: Financial year 2023/2024 – baseline emissions

Scope	Category	t CO ₂ e	% of Total CO ₂ e
Scope 1	Fuel	1,715.83	9.38
Scope 2	Electricity	2.26	0.01
Scope 3	1 – Purchased goods and services	8218.16	44.93
	2 – Capital goods	0	0
	3 – Fuel- and energy related activities	953.66	5.21
	4 – Upstream transportation and distribution	107.44	0.59
	5 – Waste generated in operations	191.30	1.05
	6 – Business travel	40.25	0.22
	7 – Employee commuting	296.44	1.62
	8 – Upstream leased assets	6,764.08	36.98
	9 – Downstream transportation and distribution	0	0
	10 – Processing of sold products	0	0
	11 – Use of sold products	0	0
	12 - End-of-life treatment of sold products	0	0
	13 - Downstream leased assets	0	0
	14 - Franchises	0	0
	15 - Investments	0	0
Total Emissions (tCO₂e)		18,289.42	

Current emissions reporting

The table below explains our current data set, which is calculated in accordance with the reporting requirements of Greenhouse Gas Protocol¹, and how this data might change in the future.

Table 2: Overview of current emissions reporting categories

<p>Scope 1 Severn Trent Services has a fleet of around 150 vehicles, so our Scope 1 emissions are mostly associated with this. We also purchase fuels for generators and fire booster systems which contribute a significant proportion of the total Scope 1.</p>		<p>Scope 2 Severn Trent Services does not own any offices or own the assets that we operate, therefore our Scope 2 emissions are minimal. What is included in Scope 2 comprises emissions from electric vehicle charging and one small, rented office where we directly pay for electricity.</p>
<p>Scope 3</p>		
<p>Purchased goods and services The majority of our data here uses spend based emissions factors. We're working with our suppliers to improve this. Our first focus has been on our highest emissions area: chemicals.</p>	<p>Capital goods No data is available for this category yet but it will be reported on in the future.</p>	<p>Fuel- and energy related activities This category includes all the well-to-tank emissions from our fleet and purchased fuel, as well as transmission and distribution emissions from the electricity we use operating assets within our contracts.</p>
<p>Upstream transportation and distribution We have engaged with our highest emission suppliers, including tankering and chemical suppliers, to obtain this data. We will expand the data included as we engage further with our supply chain.</p>	<p>Waste generated in operations The majority of actual data captured is sewage sludge which we send for further treatment at larger, third-party treatment works. The remainder of this data is based on spend calculations as we develop our data capture for waste across the rest of the business.</p>	<p>Business travel Severn Trent Services calculates business travel from expenses, covering private vehicle mileage, public transport, air travel, and hotel stays.</p>
<p>Employee commuting Each year we survey our employees on their commuting habits and this data is used to calculate our employee commuting. Our people are also asked</p>	<p>Upstream leased assets Severn Trent Services operates assets on a contracted basis for customers. These contracts do not fit into the standard definitions of financial or</p>	<p>Downstream transportation and distribution There are no downstream transportation and distribution emissions associated with our operations.</p>

¹ [Corporate Standard | GHG Protocol](#)

how many days they work from home, so emissions associated with homeworking are also included.	operational control as set out the GHG protocol. We're aware our customers are reporting these emissions in their own Scope 2; therefore we are reporting them in Scope 3 Category 8 to avoid double counting and until further guidance is available.	
Processing of sold products There are no associated emissions for the processing of our sold products.	Use of sold products The only product Severn Trent Services provides is abstracted water for one customer. We haven't yet quantified the emissions associated with heating water supplied; this a future improvement we'll make for our Scope 3 data.	End-of-life treatment of sold products There is no end-of-life treatment associated with our sold products. Treatment of water after use (wastewater) is captured in Category 5: waste generated in operations.
Downstream leased assets Severn Trent Services does not lease assets so there are no associated emissions to report.	Franchises Severn Trent Services does not have franchises so there is no emissions data to report.	Investments There are no relevant investments associated with our organisation so there is no data.

We will update this section annually to demonstrate the successes of our carbon reduction plan against our targets. Severn Trent Services is a growing business, so as we expand through organic growth or acquisition, increases may appear in our baseline data.

Emissions reduction targets

To continue our progress toward achieving Net Zero, we've adopted the following carbon reduction targets for the next 18 months:

Table 3: Overview of emissions reduction targets

Scope	Details	Reduction target
Scope 1	Fuel	Trial HVO (hydrotreated vegetable oil) through committing to 10% HVO fuel by 2026. Expand EV (electric vehicle) fleet each year (subject to charging availability)
Scope 1	Fleet fuel	Reduce vehicle idling emissions by 20% by 2026
Scope 3	6 – Business travel	Reduce business travel emissions by 20% by 2026
Scope 3	1 – Purchased goods and services	Reduce embodied carbon in Severn Trent Services-funded engineering projects by 10% by 2026

These targets are in addition to one of our overall targets, which is to decarbonise our fleet by 2030. We will assess and add to these targets each year as specific areas are identified for reduction.

This projected emissions reduction is shown in the graph below by financial year:

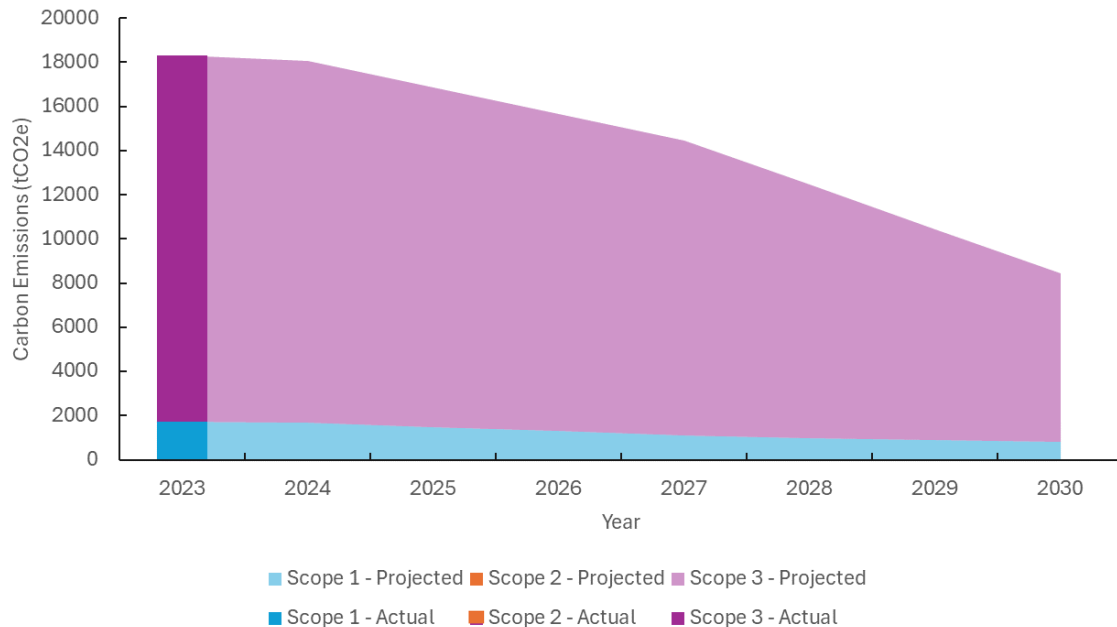


Figure A: Projected emissions reduction from FY2023 baseline.

Electric vehicle technology is the main barrier to our emissions reduction. Therefore, we project emissions to fall over the next few years as we transition some vehicles to EVs and trial new technologies. However, we expect a more rapid decline in emissions from around 2027 as we expect technological improvements and increased EV charging infrastructure to allow us and our suppliers to switch from fossil fuels, lowering our Scope 1 and Scope 3 emissions.

Carbon reduction projects

On-going reduction projects

Headline strategy—Severn Trent Services is included under Severn Trent PLC’s group-wide science-based target and is, therefore, committed to a 46.2% reduction in baseline emissions for Scope 1 and 2.

External accreditation—Severn Trent Services maintains ISO 14001 certification each year. We will review the scope of accreditations to identify those that support carbon reduction.

Renewable energy—Severn Trent Services has funded and installed solar panels at one of the water treatment works we operate for a key customer. Since August 2023, this has saved 4.5 tCO₂e compared to purchasing the same kWh of electricity from the grid.

People engagement—Severn Trent Services has a ‘Sustainability Reps’ team meeting monthly to discuss progress on our sustainability plan and share ideas on achieving our sustainability ambitions.

Vehicle Idling—Severn Trent Services is engaging employees on the impact of idling and is setting up an internal league table to promote competition and reduce emissions in this area.

Construction carbon—Severn Trent Services considers embodied carbon in the design of all projects, and this process has saved 452 tCO₂e by influencing option selection decisions based on the embodied carbon data.

Future reduction projects

Severn Trent Services is considering many projects to reduce our overall carbon footprint, such as:

EV fleet expansion – This year, we will add five electric vehicles to our fleet, reducing our Scope 1 emissions by approximately ten tCO₂e by the end of the current financial year.

Large vehicle fleet – Where electric vehicle technology is not currently viable, we’re looking at trialling HVO, which will reduce emissions by 90% compared to diesel.

Technology and innovation – We’re exploring innovations in hydrogen production from wastewater, with plans being developed at one of our wastewater treatment works.

Work scheduling – We’re implementing a new work management system which will optimise journey times, reduce our fuel consumption, and lower emissions

Declaration and sign-off

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standards for Carbon Reduction Plans.

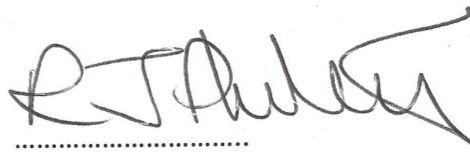
Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol Corporate Standard² and uses the appropriate government emission conversion factors for greenhouse gas company reporting³. Where government factors were unavailable, we used industry EPDs such as for specific chemicals. In the absence of fully granular supply chain data, spend-based emissions factors have been used.

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements⁴, and the required subset of Scope 3 has been published in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) standard⁵. Where guidance in the Corporate Value Chain (Scope 3) standard was not clear, decisions on scoping have been detailed above.

The Severn Trent Services Managing Director and the Head of Strategy and Sustainability have reviewed and signed off on this Carbon Reduction Plan.



18th July 2024
Andrew Lee
Managing Director



18th July 2024
Robin Phillips
Head of Strategy and Sustainability

² [Corporate Standard | GHG Protocol](#)

³ [Greenhouse gas reporting: conversion factors 2023 - GOV.UK \(www.gov.uk\)](#)

⁴ [Environmental Reporting Guidelines \(publishing.service.gov.uk\)](#)

⁵ [Corporate Value Chain \(Scope 3\) Standard | GHG Protocol](#)