



SUMMARY OF CARBON REDUCE CERTIFICATION ⁱ

FOR Anglian Water Services Limited



Summary for 01 April 2023 to 31 March 2024

CARBON REDUCE ORGANISATION CERTIFIED: ANGLIAN WATER SERVICES LIMITED

Carbon Reduce certified means committing to ongoing reductions while achieving annual measurement for at least the Toitū mandatoryⁱⁱ emissions.



Measured emissions to ISO
14064-1:2018 and Programme
requirements



Managing and reducing against
Programme requirements

This report provides a summary of the annual greenhouse gas (GHG) emissions inventory and management report for Anglian Water Services Limited as part of the annual work to achieve Carbon Reduce certification. Additional details of the annual achievements, commitments, and verification are available on request from Anglian Water Services Limited.

This is the greenhouse gas inventory for Anglian Water Services Limited for the period April 2023 to March 2024

ACHIEVEMENTS

These achievements have been verified in line with ISO 14064-3:2019 and Carbon Reduce Programme Technical Requirements for the 01 April 2023 to 31 March 2024 measurement period.

EMISSIONS MEASUREMENT

Anglian Water Services Limited's greenhouse gas emissions for this year (01 April 2023 to 31 March 2024) were 282,885.77 tCO₂e. Anglian Water Services Limited has measured the emissions resulting from its operational activities, purchased energy, and selected impacts from its value chain activities, including business travel, freight, and waste sent to landfill.

The annual inventory is detailed in the following table. Emissions and reductions are reported using a location-based methodology.ⁱⁱⁱ

Category (ISO 14064-1:2018)	Scopes (GHG Protocol)	GHG emissions (tCO ₂ e)		
		Base Year 2018/2019	Previous Year 2022/2023	Current Year 2023/2024
Category 1: Direct emissions (tCO ₂ e)	Scope 1	123,405.23	118,304.66	117,483.38
Category 2: Indirect emissions from imported energy (location-based method*) (tCO ₂ e)	Scope 2	181,076.96	121,994.79	134,596.53
Category 3: Indirect emissions from transportation (tCO ₂ e)	Scope 3	14,688.11	13,709.92	18,446.46
Category 4: Indirect emissions from products used by organisation (tCO ₂ e)		15,435.69	11,210.12	12,359.40
Category 5: Indirect emissions associated with the use of products from the organisation (tCO ₂ e)		0.00	0.00	0.00
Category 6: Indirect emissions from other sources (tCO ₂ e)		0.00	0.00	0.00
Total gross emissions* (tCO₂e)		334,605.99	265,219.49	282,885.77
Category 1 direct removals (tCO ₂ e)		0.00	0.00	0.00
Total net emissions (tCO₂e)		334,605.99	265,219.49	282,885.77

*Gross and net emissions are reported using a location-based methodology. Contact Anglian Water Services Limited for full details.

The operational GHG emission sources included in this inventory are shown in Figure 1 below.

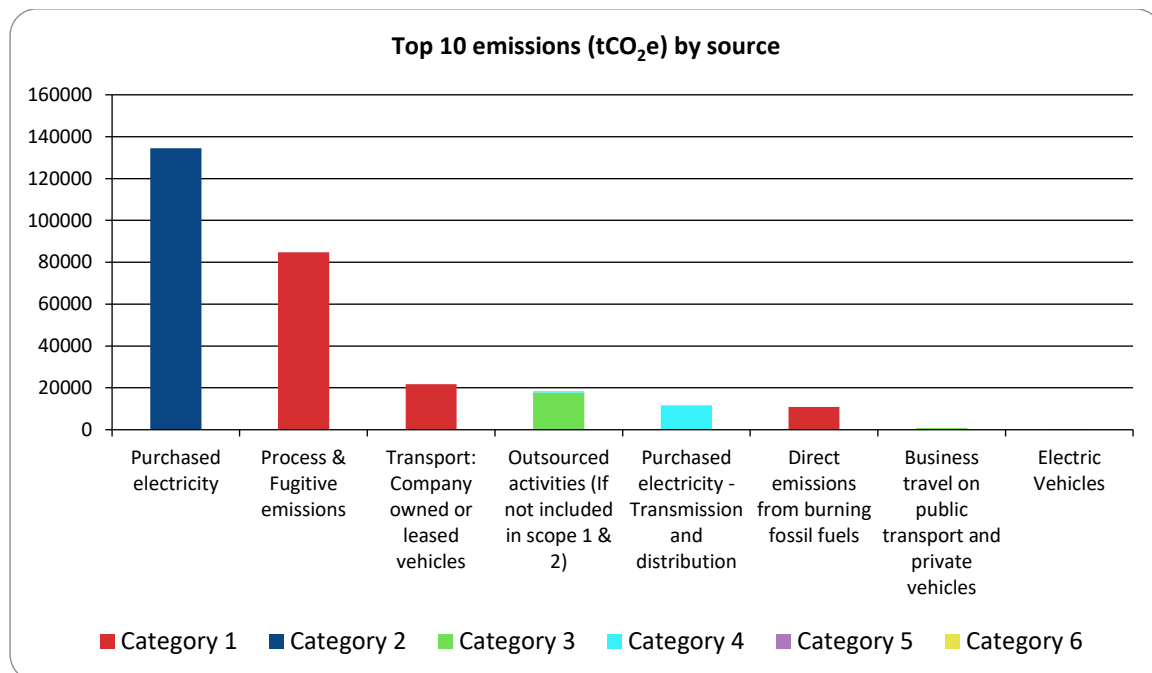


Figure 1: Top 10 GHG emissions (tonnes CO₂e) by source

SCOPE OF MEASURED INVENTORY

CONSOLIDATION APPROACH

An operational control consolidation approach was used to account for emissions. Organisational boundaries were set with reference to the methodology described in the GHG Protocol and ISO 14064-1:2018 standards. ^{iv}

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BOUNDARIES

Organisational boundaries were set with reference to the methodology described in the GHG Protocol and ISO 14064-1:2006 standards. The GHG Protocol allows two distinct approaches to be used to consolidate GHG emissions: the equity share and control (financial or operational) approaches. The Programme specifies that the operational control consolidation approach should be used unless otherwise agreed with the Programme. An operational control consolidation approach was used to account for emissions.



Figure 2: Organisational structure showing business units included and excluded

N/A. Excluded emissions do not exceed 5% of the total footprint within the organisation boundary stated.

Managing and reducing

This is the 15th year of reporting under the Toitū carbonreduce programme and the fifth year since resetting their base year to 2018-19. An absolute reduction in Category 1 and 2 emissions of 55,162.47 tCO₂e has been achieved against base year. A reduction in emissions intensity (for Category 1, 2 and mandatory Category 3 and 4 emissions) of 31.77tCO₂e/£M has been achieved based upon a 5-year rolling average, adjusted for inflation.

There has been a decrease of 51,720 tCO₂e over base year 2018-19 (revised base year in 2022). Emissions over the base year have reduced significantly; this is primarily due to reduction in the grid electricity emission factor. There has been an increase in renewable energy consumed as compared to our baseline year and continued investment in energy efficiency schemes, also assisted in delivering emission reductions.

There has been an increase in scope 1 process emissions, this is associated with a change to the accounting of N₂O related to treatment. There has been a decrease in emissions associated with biogas, this is due to a change in emissions factor used. Emissions associated with biogas have also moved from the process emissions category to the fuel category; it remains in scope 1.

Using the location-based methodology we have seen reductions in carbon of around 15% against the base year. For the year 2022-24 total reduction has been impacted by an increased volume of grid electricity consumed which has been influenced by the wet weather events of winter 2023-24. Additionally the grid emissions factor has increased between 2022 and 2023, adding an additional 8,887tCO₂e

Our capital carbon programme remains on course to deliver our target of a 65% capital carbon reduction against our 2010 baseline by 2025.

Target name	Baseline period	Target date	Type of target (intensity or absolute)	Current performance (tCO ₂ e)	Current performance (%)	Comments
Reduction in gross operational emissions by 10%	2019-20	2024-25	absolute	-4,224	-1%	Medium term reduction, as an ODI for our regulator. This uses a market-based methodology.
Energy optimisation	2019-20	2024-25	absolute	14,152	120%	Reduction in carbon from energy optimisation schemes, represented as full year benefit. This is an internal target that references a 2019-20 emissions factor for reporting

Emissions Reduction - Absolute metric	5-year Rolling Average vs. Base Year
tCO ₂ e absolute	-18.89
Reduction Performance - Intensity metric	5-year Rolling Average vs. Base Year
tCO ₂ e intensity	-12.62

COMMITMENTS

Reduction targets

Anglian Water Services Limited is committed to managing and reducing its emissions. Anglian Water Services Limited's commitments, including GHG emissions reduction targets and plans, have been reviewed and are in line with Toitū Carbon Reduce programme requirements.

The organisation is committed to managing and reducing its emissions in accordance with the Programme requirements. Table 6 provides details of the emission reduction targets to be implemented. These are 'SMART' targets (specific, measurable, achievable, realistic, and time-constrained).

The long term goal for the organisation is to achieve net zero carbon emissions by 2030.

We have two five year carbon targets:

- Exceed a 10% reduction in real terms in gross operational carbon by 2025 against a 2020 baseline
- Deliver a 65% reduction in capital carbon by 2025 from a 2010 baseline

These targets are backed by a number of commitments including:

- The implementation of 'drop CO₂ drop cost' branding, which is now embedded, building on existing company wide carbon awareness messaging.
- Targeting business mileage and fuel efficiency of company vehicles to reduce carbon emissions and introducing electric vehicles where viable.

- Continue to work with partners in delivering additional renewable solar PV and optimise outputs from our existing CHP units.
- Further work with customers, communities and our value chain to promote understanding of the link between water, carbon and cost.
- Anglian Water played a key role in developing and launching PAS 2080 Carbon Management in Infrastructure.

Looking ahead, Anglian Water Services Limited is currently focused on the following projects.

Objective	Project	Responsibility	Completion date	Potential co-benefits	Potential unintended consequences	Actions to minimise unintended consequence
Water Optimisation Programme	Capital investment programme in energy efficiency schemes	Shaun Morris, Energy & Supply Programme Manager	Ongoing - completion Mar 2025	N/A	N/A	N/A
Water Recycling Optimisation Programme	Capital investment programme in energy efficiency schemes	Sangeetha Agalakotuwa Optimisation Programme Delivery Manager Dominik Kozminski, Tactical Improvement Manager;	Ongoing - completion Mar 2025	N/A	N/A	N/A
Increase energy consumption through renewable sources	Investment in sourcing renewable electricity	Alex Riley, Renewable Energy Leader	Ongoing	N/A	N/A	N/A

CERTIFICATE DETAILS

Certification status:	Carbon Reduce certified organisation
Certificate number:	2024214J, Year 1 of 3 year certificate period
Valid until:	10 July 2027
Measurement period:	01 April 2023 to 31 March 2024
Base year:	01 April 2018 to 31 March 2019
Audited by:	Achilles Assessment Services (UK)
Level of assurance:	Limited

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Disclaimer: This Certification Summary Statement is a summary of the information (validated and verified for relevant components of the certification) considered for certification and the certification decision. It should not be taken to represent the full submission for certification. Whilst every effort has been made to ensure that the information in this Statement is accurate and complete, Enviro-Mark Solutions Limited (trading as Toitū Envirocare) does not, to the maximum extent permitted by law, give any warranty or guarantee relating to the accuracy or reliability of the information.

ⁱⁱ The mandatory sources that must be included in any Carbon Reduce Programme inventory include:

- All direct emissions from the activities of the organisation, or the part of the organisation being certified. Direct emissions come from assets owned or controlled by the organisation, such as emissions from fleet vehicles, boilers, generators and HVAC systems.
- All emissions from imported energy (electricity, heat and steam)
- Emissions from business travel and freight paid for by the organisation
- Emissions associated with waste disposed of by the organisation, as well as the transmission and distribution of electricity, and natural gas

ⁱⁱⁱ All purchased and generated energy emissions are dual reported using both the location-based method and market-based method in the certified Inventory Report and appendices. This summary document presents the information using the location-based method. Note that reductions and any required compensation are assessed using that method. Dual reporting illustrates the role of supplier choice, onsite renewable energy generation and contractual instruments in managing indirect emissions from energy alongside any ongoing energy efficiency and reduction efforts. This dual reporting aligns with ISO 14064-1:2018 and the GHG Protocol. Please contact this organisation for the dual reporting details applicable to this inventory.

^{iv} Control: the organisation accounts for all GHG emissions and/or removals from facilities over which it has financial or operational control. Equity share: the organisation accounts for its portion of GHG emissions and/or removals from respective facilities.