

# Land & Water Services

## Carbon Reduction Plan (PPN06/21)

LAWS-ENVPlan-01

This procedure has been issued, amended and approved as follows:

Rev	Issue Date	Revision Details	Required Approvals		
			Updated by: (Anyone)	Checked By: (Dept. Manager)	Approved By: (Head of Dept.)
P01	March 2024	First issue	Fiona Moore	Fiona Moore	Kevin Kirkland
P02	August 2024	Minor updates to carbon emissions	Fiona Moore	Fiona Moore	Kevin Kirkland

## Contents

1	Purpose .....	2
2	Scope .....	2
3	Commitment to Achieving Net Zero .....	2
4	Baseline Year .....	2
5	Carbon Reduction Targets .....	3
6	Carbon Reduction Projects .....	4
7	Declaration & Sign Off .....	5

Doc No.:	LAWS-ENVPlan-01	Issue No.:	P02	Issue Date:	15/08/24
Owner:	Fiona Moore	Approved by:	Kevin Kirkland	Date of First Issue:	29/03/24

## 1 Purpose

This Carbon Reduction Plan (CRP) outlines Land & Water Services Ltd.'s approach to carbon reduction.

Carbon Dioxide (CO<sub>2</sub>) is produced when fossil fuels such as gas, oil, or diesel are combusted to produce energy for heating, electricity generation, material production, and transport. Carbon emissions are categorised as:

Scope 1	those produced directly by burning fuel on site such as gas for heating and diesel in vehicles
Scope 2	those generated through the off-site generation of electricity
Scope 3	those arising indirectly due to core operations, including the procurement of goods, business travel and staff commuting

This plan identifies the baseline established emissions, in accordance with PPN06/21, and details the implementation of targets to reduce carbon intensity. It is supported by objectives set in our third-party accredited ISO 14001 Integrated Management System.

## 2 Scope

This Carbon Reduction Plan addresses Land & Water Services' direct Scope 1 emissions, indirect Scope 2 emissions, and the following indirect Scope 3 emissions:

- Category 4 - Upstream Transport & Distribution
- Category 5 - Waste generated in Operations
- Category 6 - Business travel
- Category 7 - Employee commuting
- Category 9 - Downstream Transport & Distribution

It applies to all Land & Water Services' activities for which they have operational control, including projects, Appleby office and a proportion of Albury office.

## 3 Commitment to Achieving Net Zero

Land & Water Services Ltd recognises that the impacts of climate change will disrupt the natural, economic, and social systems we depend on. This disruption will impact global food security, damage infrastructure, and jobs, and harm human health. Consequently, we are fully committed to supporting the UK Government's ambition of achieving net-zero carbon emissions by 2050 and are actively collaborating with key Supply Chain Partners and Clients to do the same.

## 4 Baseline Year

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 future emissions reduction can be measured. The baselines were determined using information primarily gathered through Land & Water's Accounts system. The data recorded was reviewed and 2019 was established as the baseline year for Scope 1 and 2 emissions and 2023 being the baseline year for Scope 3 emissions.

Doc No.:	LAWS-ENVPlan-01	Issue No.:	P02	Issue Date:	15/08/24
Owner:	Fiona Moore	Approved by:	Kevin Kirkland	Date of First Issue:	29/03/24

Carbon emissions tCO <sub>2e</sub>	Baseline Year:	Current Year:
	2019	2023
Scope 1	1790	1634
Scope 2	12	14
Scope 3	Not recorded	
Cat 4 Upstream Transport & Distribution		474
Cat 5 Waste (ex transport)		567
Cat 6 Business Travel (ex hotels)		1
Cat 7 Employee Commuting (ex home working)		20
Cat 9 Downstream Transport & Distribution		0
Total Emissions	1802	2709

We note that Scope 3 emissions can represent up to 80% of an organisation's carbon emissions and are cognisant that Total Carbon Emissions reported currently within this plan exclude some of those higher emission activities, including the transportation of Waste in Cat 5.

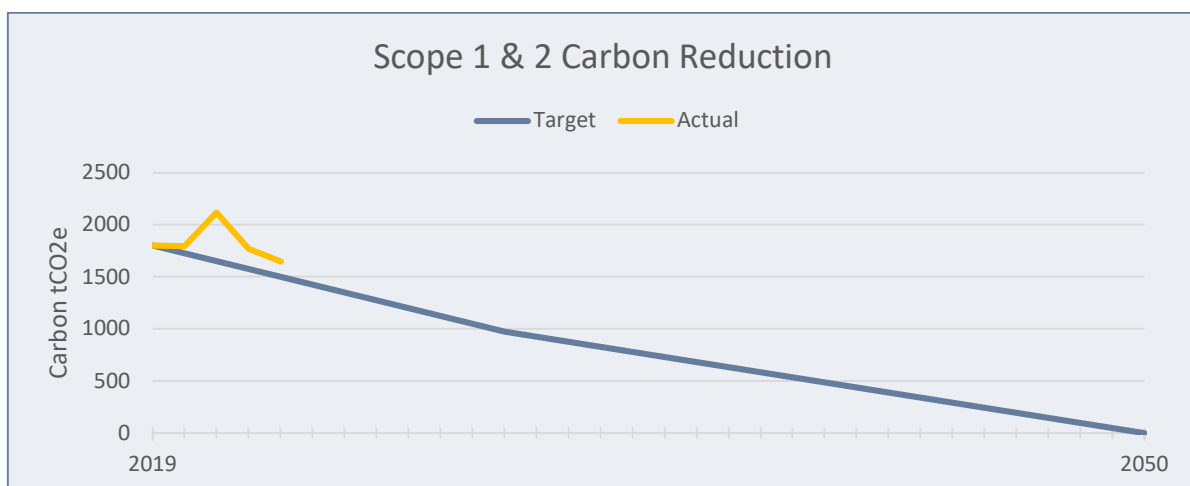
It is recognised that emissions associated with our supply chain are likely to be significant and it is acknowledged that these are not currently recorded.

## 5 Carbon Reduction Targets

To continue our progress to achieving Net Zero by 2050, we have adopted the following carbon reduction target:

Target	Progress to date
<p>To reduce emissions in line with Paris Agreement goals on a 1.5degC pathway.</p> <p>To align with the pathway our near term science based target is to reduce our Scope 1 &amp; 2 carbon emissions from our 2019 Baseline of 1802tCO<sub>2e</sub> by 46% to 973tCO<sub>2e</sub> by 2030.</p> <p>To become a net-zero carbon emissions business by 2050 – Direct Emissions Scope 1 &amp; 2.</p> <p>As an SME we commit to measure and reduce our Scope 3 emissions.</p>	<p>As of 2023, there has been an 154tCO<sub>2e</sub>, 8% reduction, in scope 1 and 2 carbon emissions since 2019.</p>

Progress against this target can be seen in the graph below:



## 6 Carbon Reduction Projects

**The following environmental management measures and projects have been completed or implemented** since the 2019 baseline. The carbon emission reduction achieved by these schemes equate to a 14% reduction against the 2019 baseline.

Microsoft Teams: has been utilised within the business to enable internal and external meetings to be held online minimising vehicle movements.

Electrification of car fleet: part electrification of the company car policy has encouraged take up of electric vehicles by staff.

EV chargers: have been installed at half of our regional offices, evidencing a reduction of 1.5tCO<sub>2e</sub> across the wider business for the last quarter of 2023.

The above have contributed towards 38tCO<sub>2e</sub> reduction from our vehicle fleet from 2019 to 2023.

2023 Idling campaign: including posters, numerous toolbox talks, eco-operator training, resulting in a reduction of 2tCO<sub>2e</sub> in 2023.

Minimum plant standards: including Stage V engines were implemented down our supply chain in 2023.

HVO: has been offered to clients since 2022. Use of HVO on construction sites in 2023 avoided 52tCO<sub>2e</sub>.

The above have contributed towards 118tCO<sub>2e</sub> reduction from our site fuel use from 2019 to 2023.

Waste reduction: 2023 also saw the soft launch of our internal material re-use platform "LAWbay".

### **In the future we hope to implement further measures such as:**

Over a third of our direct emissions (GHG scope 1) come from our vehicle fleet.

At present EVs account for 25% of company cars. We aim to transition our entire company car fleet to electric or zero emissions models by 2030, where it is the best technical and economic solution and will pursue other ultra-low emission solutions where EVs are not viable.

We operate a fleet of 70no vans for the workforce, yet currently have only one on trial as an electric model. We aim to transition our entire van fleet to electric or zero emissions models by 2035, where it is the best technical and economic solution and will pursue other ultra-low emission solutions where EVs are not viable.

Review our organisational structure by 2025 to optimise geographic working, reducing vehicle journeys and facilitating vehicle sharing.

Charge points will be available at all our regional offices by 2026, following which charging options on construction projects will be evaluated.

The operation of non-road mobile machinery on our construction sites accounted for approximately two thirds of our direct emissions (GHG scope 1) in 2023.

Land and Water seeks to switch from running on fossil fuels to sustainable alternative fuels such as Hydrotreated Vegetable Oil (HVO) or Gas to Liquid (GTL) by 2030. This will see a 90% reduction in carbon emissions in comparison to gas oil.

Doc No.:	LAWS-ENVPlan-01	Issue No.:	P02	Issue Date:	15/08/24
Owner:	Fiona Moore	Approved by:	Kevin Kirkland	Date of First Issue:	29/03/24

We aim to undertake a phased reduction of our supply chain's fleet of non-road mobile machinery to zero or ultralow emission models by 2035.

We will continue our Idling Campaign until assured that behaviours are embedded. We will encourage our supply chain to invest in telematics to enable those conversations with, and evidence for, our workforce.

We will transition from generators reliant on fossil fuels, providing temporary power supplies to projects, to hybrid power systems providing sustainable (hybrid, hydrogen and solar) power solutions or direct connection to the grid utilising renewable power supplies where practicable.

Having set a baseline year of 2023 for 5no GHF Scope 3 emissions we will:

better understand and categorise the types of waste stream that we generate, and learn how we could implement the waste hierarchy to maximise reductions of upstream and downstream interactions with our waste and the associated GHGe.

better understand our upstream transportation and distribution through engagement with supply chain, to identify potential reduction pathways.

On a more general note we propose:

Training and educating employees on carbon reduction practices.

Increased use of low carbon alternative materials (concrete etc) or sourcing sustainable produced/recycled products.

Engage with suppliers, subcontractors, and clients to achieve carbon reduction goals

## 7 Declaration & Sign Off

This Carbon Reduction Plan has been produced in accordance with the requirements of PPN 06/21, associated guidance, and the technical standard for completion of 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 standard, and uses the appropriate Government emission conversion factors for greenhouse gas company reporting.

Scope 1 and Scope 2 emissions have been reported following 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.



Kevin Kirkland – Managing Director

Doc No.:	LAWS-ENVPlan-01	Issue No.:	P02	Issue Date:	15/08/24
Owner:	Fiona Moore	Approved by:	Kevin Kirkland	Date of First Issue:	29/03/24