

The logo for Laing O'Rourke is centered in a dark grey rectangular box. It features the company name "LAING O'ROURKE" in white, uppercase, sans-serif font. Above the text is a horizontal yellow bar, and below the text is a horizontal red bar.

**LAING O'ROURKE**

Carbon Reduction Plan  
Laing O'Rourke PLC

FY23

# Carbon Reduction

Supplier name: Laing O'Rourke PLC

Publication date: [September 2023](#)

## Commitment to achieving Net Zero

Laing O'Rourke PLC is committed to achieving Net Zero in operational carbon (Scope 1 & 2) by 2030 and to becoming a Net Zero company (Scopes 1, 2 & 3) before 2050.

## 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.

<b>Baseline Year: FY20: Apr 2019 to Mar 2020</b>	
<b>Additional Details relating to the Baseline Emissions calculations.</b>	
Laing O'Rourke PLC has been measuring and reducing carbon emissions since it joined the CEMARS programme in 2008. We have also had our carbon inventory externally verified by Achilles every year.	
This baseline report serves as the first-year report of GHG emissions covering Scopes 1, 2 and 3 for Laing O'Rourke PLC in relation to PPN 06/21 Carbon Reduction Plan	
<b>Laing O'Rourke PLC includes the UK subsidiaries now known as; Laing O'Rourke Delivery Limited, Explore 2050 Engineering, Explore 2050 Manufacturing, Select Plant Hire and Laing O'Rourke Services.</b>	
<b>Baseline year emissions: Apr 2019 to Mar 2020</b>	
<b>EMISSIONS</b>	<b>TOTAL (tCO<sub>2</sub>e)</b>
<b>Scope 1</b>	<b>17,881</b>
<b>Scope 2</b>	<b>5,469</b>
<b>Scope 3</b> (Categories 4,5,6,7,9)	<b>20,392</b>
<b>Total Emissions</b>	<b>43,742</b>

## Current Emissions Reporting

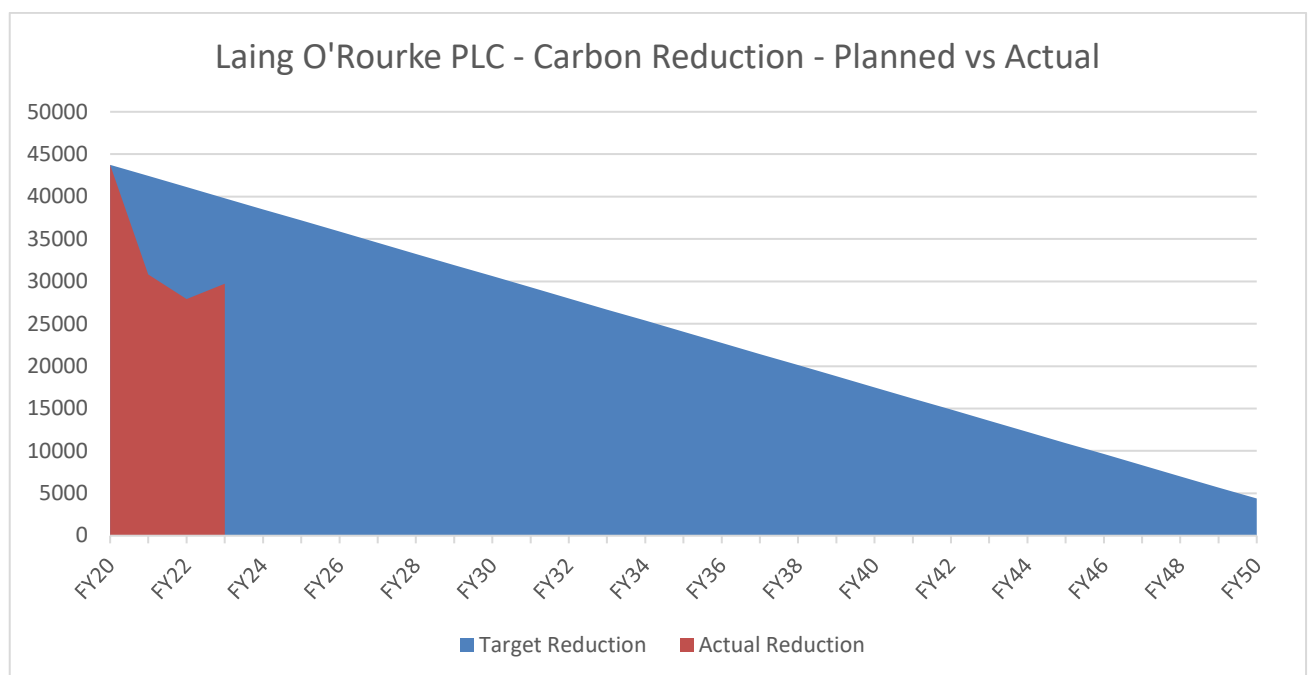
Reporting Year: FY23 - Apr 2022 to Mar 2023	
EMISSIONS	TOTAL (tCO <sub>2</sub> e)
Scope 1	6,455
Scope 2	3,070
Scope 3 (Categories 4,5,6,7,9)	20,197
<b>Total Emissions</b>	<b>29,722</b>

## Emissions reduction targets

In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets;

1. Net Zero in our operational emissions (Scope 1 & 2) by 2030
2. Net Zero in all Scopes before 2050
3. We project that carbon emissions will remain below 37,181 tCO<sub>2</sub>e by FY25. This would equate a reduction of 13%

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



## Carbon Reduction Projects

### Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented to date. The carbon emission reduction achieved by these schemes equate to;

- 13,825 tCO<sub>2</sub>e which is 59% against our FY20 scope 1 & 2 emissions, and;
- 14,020 tCO<sub>2</sub>e, a 32% reduction against the FY20 baseline across all 3 scopes.

These measures below will be in effect when fulfilling the contract.

- We are a Platinum Status participant of the Toitu Carbon Reduce Programme (Formally CEMARS) with our carbon emissions independently verified. This year we were presented with a 10-year achievement certificate, recognising our longstanding carbon reduction efforts via the programme.
- We continue to exclusively use 100% renewable electricity, backed by Renewable Energy Guarantee of Origin (REGO) certification
- We have switched all diesel and petrol company car fleet over to hybrid electric and full electric vehicles.
- We are deploying driver behaviour monitors across our van fleet to improve fuel efficiency, ahead of our planned electric van rollout over the next financial year. We are transitioning away from diesel use on our sites. 80% of our plant diesel has been replaced with ethically-sourced hydrotreated vegetable oil (HVO) and we are working to use electric alternatives where possible.
- We purchased the UK's first fully electric Crawler Crane in 2021 and since then purchased a further 6 fully electric crawler cranes, which are in active use across our sites. In addition, we have purchased the world's largest electric powered piling rig.
- We're using hybrid generators – such as the PUNCH Flybrid – to reduce consumption on site, and Ampd batteries to support our transition to cleaner power.
- We have implemented ISO 14001 Environmental Management and ISO 50001 Energy Management across the business.
- All projects are responsible for developing and implementing an Environmental and Energy Management plan and putting in place Energy Action Plans to help reduce energy usage during the works.
- We have upgraded our boilers and chillers at our head office in Dartford and installed EV charging infrastructure at a number of our permanent facilities
- Mandated use of low carbon concrete on all our new UK projects from April 2023
- Founding (and active) member of ConcreteZero
- We undertake carbon measurement on every structure that we bid and propose ways to reduce embodied carbon as part of our governance process
- Gold members of the Supply Chain Sustainability School, providing free sustainability resources and training for our supply chain partners (supporting Scope 3 decarbonisation)

In the future we intend to implement further measures such as:

- Procure more fully electric powered heavy plant for our construction sites
- Continue to invest in innovative technologies that enable us to improve efficiency, drive down consumption and eradicate diesel use
- Transition our van fleet to electric vehicles
- Transition hybrid car fleet to full electric vehicles
- Investigate Power Purchase Agreements with our energy supplier
- Install energy efficiency technologies and on-site generation at our facilities
- Implement sub-metering on electric supplies to new worksites and depots
- Submit SBT goals during this financial year
- Investigate hydrogen power for our sites and plant.
- Investigate membership of SteelZero
- Continue to work closely with supply chain partners to decarbonize collaboratively and reduce Scope 3 emissions
- Work with our design consultants to develop lower-carbon projects, deploying lean and innovative designs and technologies as appropriate

## Declaration and Sign Off

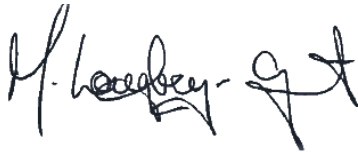
This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard<sup>4</sup> and uses the appropriate Government emission conversion factors for greenhouse gas company reporting<sup>5</sup>.

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<sup>6</sup>.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

### Signed on behalf of the Supplier:



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Date: 24 October 2023

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

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

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