




**Carbon Reduction Plan
Summary**



Authorisation Record		Roadbridge Environmental Manager	Roadbridge Quality and Environmental Manager
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R00	August 2021	Brian Handcock	
Rev	Date	Prepared by	Approved by

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1. EXECUTIVE SUMMARY

Why?

The imperative to act and deliver carbon and energy reduction is driven by legislation and client expectations, as well as the moral imperative to act.

The construction sector is increasingly challenged to deliver 'Carbon Neutral' or 'Net Zero Carbon' plans, with the UK Government (PPN06/21) public procurement note now setting the requirement for carbon management plans in any public procurement (from Sept 21).

UK Government agencies (including Highways England, HS2 Ltd, etc.) have now set specific plans and aspirations to deliver net zero carbon by 2040 and are cascading these expectations through their supply chains.

Through the Irish Climate Act, legally binding targets have been set to achieve carbon neutrality by 2050 and to half emissions by 2030 (against 2018 baseline).

The industry and sector are responding to these calls with the publicly setting out of roadmaps, procurement practices and targets, etc.

This document sets out the proposed measures and actions for Roadbridge to address these drivers.

What?

Through 2019 and 2020, data gathering exercises have enabled the production of initial estimates of the carbon emissions of the business.

In 2020, this has equated to approximately 41,200tCO₂e.

A significant part of this is associated with direct fuels consumption in plant and equipment (Scope 1); however, the full picture of carbon emission has yet to be fully developed, particularly for Scope 3 (indirect emissions).

Best practice recommends the setting of targets in line with 'Science-Based Targets' (SBT), intending to restrict warming to below 1.5C against 1990 baseline levels. Using the SBT tool, emissions reduction targets are proposed in line with the 1.5C threshold.

The headline target for Roadbridge is to reduce its absolute emissions by 63% by 2035 for Scope 1 and 2, i.e. a reduction from c. 29,400tCO₂e to c. 10,000tCO₂e.

The longer-term aspiration is to be 'Carbon Neutral' (Scopes 1 +2) (2035) and Net Zero Carbon (Scope 1, 2 + 3 with offsetting) (2040)

How?

A five-step approach is proposed to achieve this target:

1. Further develop robust measurement, data collection and analysis system. Timeline Q3/4 2021
2. Investigate and implement alternative renewable fuel sources, including HVO/Biodiesel and renewable electricity. Timeline: electricity Q3/Q4 2021, fuels phased from Q2: 2022
3. Continue investment in efficient plant, equipment, and vehicles with an aim of 100% electric/hybrid fleet by 2040, and company cars by 2030
4. Establish a programme of training, awareness, and communication to influence staff behaviours, for instance, use of telemetry data to influence driver/operator behaviour, switch-off culture, etc. Q4, 2021
5. Once all efficiency measures have been implemented, examine the options for off-setting. Timeline: 2025

2. Baseline Emissions Footprint

While carbon foot-printing was started in 2019, 2020 is taken to be the base year with more robust data collection.

Data presented is for Roadbridge Holdings Ltd including Roadbridge UK Ltd subsidiary.

Scope Source	2020 (Base year)
Scope 1	29,407.73 tCO ₂ e
Scope 2	302.64 tCO ₂ e
Scope 3*	11,512.15 tCO ₂ e
Total	41,222.52 tCO₂e

Note*: Scope 3 emissions include emissions associated with waste management, use of potable water, business travel including air, ferry and rail, hotel stays, and Well to Tank (WTT) of associated Scope 1 and 2 emissions including transmission and distribution losses.

SECR Reporting requirement	2020 (Base year)
Energy consumption used to calculate above emissions: /kWh	119,194,328 kWh

This equates to an intensity metric of 112.27tCO₂e/€m.

3. Current Emissions Reporting

This statement constitutes Roadbridge first reporting year.

2021 emissions will be reported in Q1 2022.

4. Emission Reduction Targets

To continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets. We project that carbon emissions will decrease over the next five years to 22,710 tCO₂e (for Scope 1 and 2 emissions) by 2026. This is a reduction of 25.2%.

5. Carbon Reduction Projects

Roadbridge's most significant contribution to emissions is through its use of primary hydrocarbon fuels (Scope1) and associated WTT (Scope 3) emissions (87.7% of total).

The initial reduction projects will focus upon sourcing and using alternative fuels e.g. HVO and/or biofuels with reduced carbon footprint.

Secondary attention will be on ensuring the use of efficient plant and equipment including hybrid / fully electric company cars and plant.

The third strand is to continue development of effective, accurate, and robust data collection systems.

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

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.

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

Signed on behalf of Roadbridge:

Signed:

A handwritten signature in black ink, appearing to be "C. Selby", written over a horizontal line.

Date:

18/8/2021