



**Document Title: D2 Carbon Reduction Plan**

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# Document Control

## Document Approval

<b>Document Title</b>		D2 Carbon Reduction Plan			
<b>Revision</b>	<b>Originated by</b>			<b>Checked by</b>	
P01	Name	Signature	Date	Name	Signature
	Job Title			Job Title	
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Name	Signature	Date	I confirm that the above document(s) are <b>approved</b> for issue.		
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### Revision History

Rev.	Originator	Checker	Approver	Date	Comments
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## Table of Contents

Introduction:.....	4
Commitment to achieving Net Zero.....	4
Baseline Emissions Footprint: .....	4
Emissions reduction targets:.....	6
Carbon Reduction Projects:.....	6
Declaration: .....	7
References:.....	7

## List of Figures:

Figure 1: Projected vs Actual Emissions.....	6
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## List of Tables:

Table 1: Baseline year Emissions (2020).....	4
Table 2: Reporting year Emissions (2022).....	5

## Introduction:

D2 Rail and Civils Ltd. (Parent) is a growing SME that provides different services such as Project controls, Project Management, Planning and scheduling, Information Management, Utilities Management, Constructability, Risk and value management, Capacity planning and Digital technology. The environmental policy is applied to all the services we provide, including working from offices, at home, and on-site visits. D2 expanded internationally into Canada over the past 12 months which has had an impact on our emissions.

## Commitment to achieving Net Zero

D2 Rail and Civils Ltd. is committed to achieving Net Zero emissions by 2035 and carbon negative by 2050.

## Baseline Emissions Footprint:

D2 Rail is a growing SME that has never previously assessed or reported emissions. Based on the available data, 2020 emissions were regarded as the baseline year emissions, against which future emission reductions can be measured. In 2020, D2 will have two offices on two different floors of the same building.

*Table 1: Baseline year Emissions (2020)*

Baseline Year: Jan 2020	
Baseline year emissions:	
EMISSIONS	TOTAL (tCO <sub>2</sub> e)
Scope 1: Covers direct emissions from owned or controlled sources	0
Scope 2: Covers indirect emissions generated due to purchased electricity	3.782
Scope 3: Includes all other emissions included in the business value chain: Waste recycling, Business Travel, commuting of employees	1.339
<b>Total Emissions</b>	<b>5.121</b>

D2 Rail and Civil Ltd. operates from an office and provides project management services; as a result, scope 1 emissions are zero. The company has no facilities, equipment, or vehicles that emit greenhouse gases because of the combustion of fossil fuels.

In 2020, D2 had two offices that accounted for a total consumption of 16,224Kwh, contributing to a total carbon emission of 3.782tCo2e for the year.

D2 provided services from the office until March 2020, when it was compelled to close due to Covid. Scope 3 emissions, which include employee commuting to work, business travel, and waste generation, were estimated to be 1.339tCo2e. D2 did not transport or distribute carbon-emitting products or services.

*D2 relocated to the new office in November 2022 due to the expansion of its teams, while passively maintaining the other two offices whilst preparing to officially close them, resulting in a single office of operation.*

Table 2: Reporting year Emissions (2022)

Reporting Year: 2022	
Baseline year emissions: 5.121	
EMISSIONS	TOTAL (tCO2e)
Scope 1: Covers direct emissions from owned or controlled sources	0
Scope 2: Covers indirect emissions generated due to purchased electricity	3.590
Scope 3: Includes all other emissions included in the business value chain: Waste recycling, Business Travel, commuting of employees	25.542
Total Emissions	29.312

D2 Rail and Civil Ltd operated as an office-based firm in 2022 as well and does not own any facilities, machinery, or vehicles that emit greenhouse gases from the combustion of fossil fuels, so scope 1 emissions are zero.

The electricity consumption for the year 2022 in the D2 new office is recorded as 1740 Kwh. The combined electricity consumption of other 2 offices were recorded as 17696Kwh. The 50% of the electricity consumed from new office was generated from renewable sources. This gives a total energy consumption of 18566Kwh and with 2022 GHG conversion factor (0.19338) produces 3.590tCo2e

D2 nearly doubled in size in terms of the number of employees and nearly tripled in terms of services that it provides. D2 operated from the office for the entire year of 2022 compared to 3 months of its operation in 2020, hence the carbon emissions spiked to 6 times. For the year 2022, the scope 3

emissions from employee commuting, business travel, and waste generation were calculated to be 25.542tCo2e. D2 did not transport or distribute carbon-emitting products or services in 2022.

## Emissions reduction targets:

D2 was committed to reduce emissions in 2020, but this was the first time it calculated its carbon footprint. Even though the amount of carbon emissions has increased significantly due to the relaxation of pandemic restrictions and the expansion of its operations. D2 believes and strives to achieve its commitment of net zero by 2035 and is taking every possible measure to become carbon negative by 2050.

The graph below depicts current and predicted progress toward the UK net zero strategy's targets:

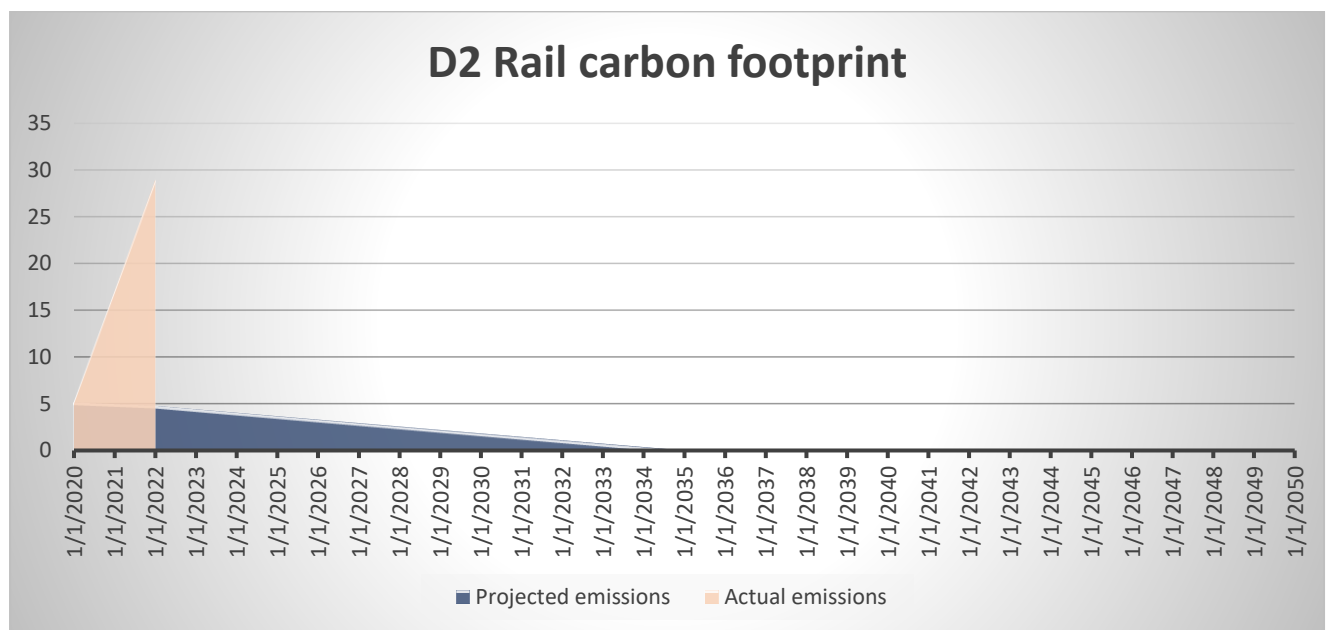


Figure 1: Projected vs Actual Emissions

## Carbon Reduction Projects:

The following environmental management measures and projects are in varying levels of commission. The carbon emission reduction that are expected to achieve by these schemes equate to Zero tCO2e, a 100% reduction against the 2020 baseline and the measures will be in effect when performing the contract.

The following carbon reduction goals have been adopted as part of our ongoing effort to reach Net Zero.

- Reduced energy usage through the maximum utilisation of the natural light and switching to the auto sensitive light sensors.
- The company that we buy electricity produces 50% of its energy from renewable sources and nuclear sources which hardly produces greenhouse gases.
- 80% of all the appliances that we use in our office are either A rated or above.
- Optimising heating and air conditioning using ideal thermostat during normal working hours.
- Promoting paper less culture and waste recycling.
- Avoiding single use coffee cups, glasses, plates, and non-recyclable coffee capsules.

- Promoting hybrid working policies and encouraging online meetings wherever possible.
- Provision of organic foods and drinks which are made locally.
- Incentivising the staff members to commute to the office through cycles.
- Encouraging lower carbon transport option for employee commuting i.e., Encouraging employees to travel through trains rather than using personal cars.

*D2 would expand on these measures to meet its commitment of net zero emissions by 2035:*

- We are planning to buy 100% renewable energy sourced electricity by the end of 2030.
- Planning to switch to 100% green appliance that consumes very less electricity by the end of 2030.
- Use rechargeable batteries for small appliances.
- Buying office equipment and other products made of recyclable material wherever possible.
- Planning to introduce Carbon Literacy among our employees to increase awareness about carbon reductions.
- We have applied for the ISO 14001 certification to better include an environmental management system.
- Planning to collaborate with Hubbub and different charities working towards carbon reductions to reach our goal of making our organisation carbon negative by 2050.
- Committed to buy low carbon goods or services such as office supplies where purchasing cannot be avoided.
- Choosing our suppliers and investing in the pension companies that is working towards carbon net zero strategy.
- Flying economy class, avoiding layovers, and choosing low-emission airlines to reduce carbon emissions from business travel where flying cannot be avoided.

## **Declaration:**

This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans<sup>1</sup>.

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>2</sup> and uses the appropriate Government emission conversion factors for greenhouse gas company reporting<sup>3</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>4</sup>.

## **References:**

1. [https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment\\_data/file/991625/PPN\\_0621\\_Technical\\_standard\\_for\\_the\\_Completion\\_of\\_Carbon\\_Reduction\\_Plans\\_\\_2\\_.pdf](https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/991625/PPN_0621_Technical_standard_for_the_Completion_of_Carbon_Reduction_Plans__2_.pdf)
2. <https://ghgprotocol.org/corporate-standard>
3. <https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

4. <https://www.gov.uk/government/publications/procurement-policy-note-0621-taking-account-of-carbon-reduction-plans-in-the-procurement-of-major-government-contracts>











# D2 Carbon Reduction Policy

Final Audit Report

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