



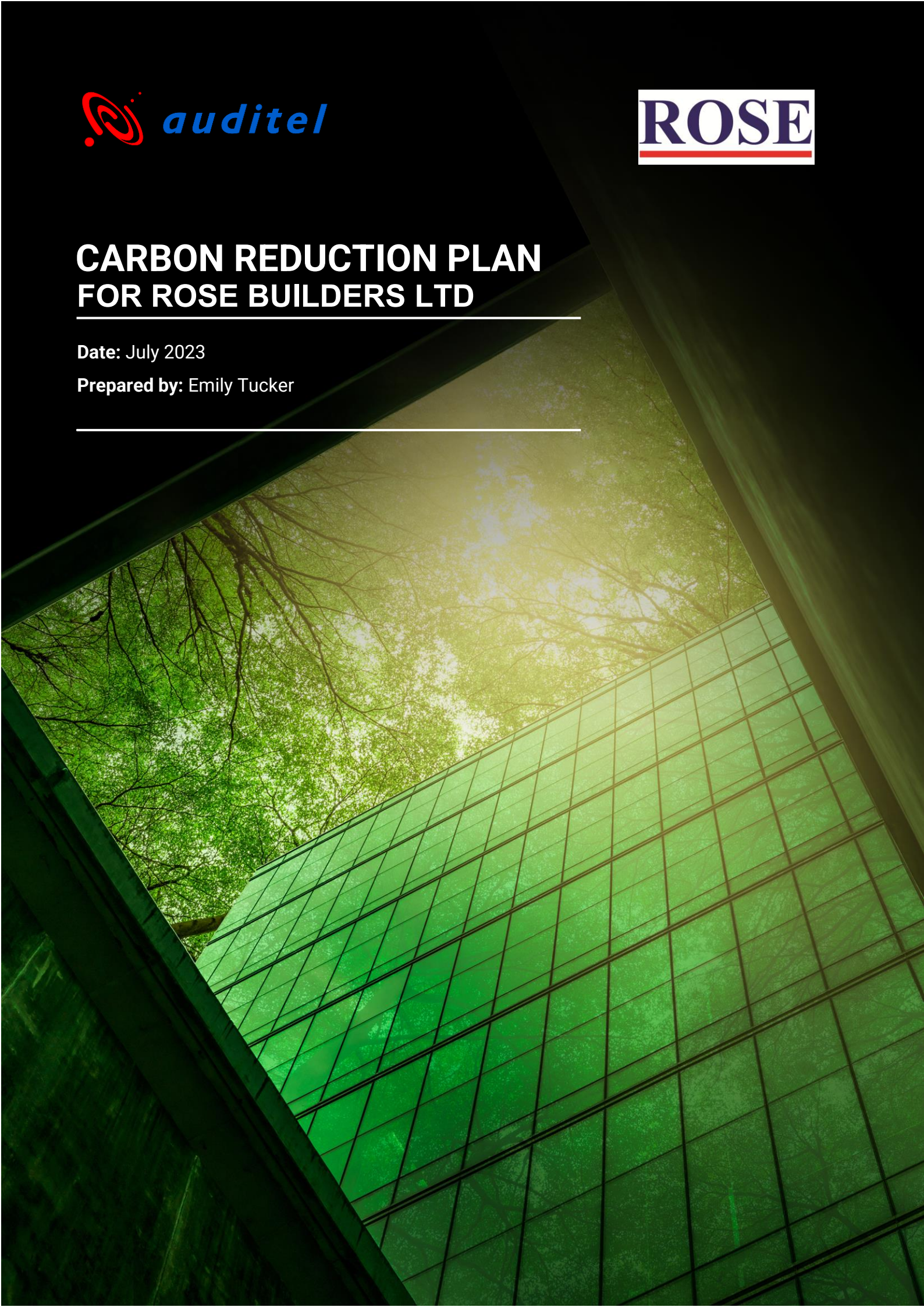
# CARBON REDUCTION PLAN FOR ROSE BUILDERS LTD

---

Date: July 2023

Prepared by: Emily Tucker

---



# Contents

Title	Page
Foreword .....	2
Introduction.....	3
Context .....	4
Baseline.....	5
2022 Carbon Footprint Summary .....	5
Completed Carbon Reduction Initiatives .....	5
Planned Carbon Reduction Initiatives.....	6
2024 Carbon Reduction Targets .....	6
Long Term Strategy .....	7
Reduction Graph .....	7

## Auditels Credentials – Verification Bodies





## Foreword

Rose Builders Ltd recognises how important it is for us to make sure we are committed to reducing our carbon emissions and the impact we have on the environment in everything we do. This Carbon Reduction Plan (CRP) sets out how we will continue to improve the ways in which we use our resources to minimise our environmental harm.

Each year this grows in importance as our awareness is raised on the critical importance of changing our behaviours regarding climate change and sustainability. Legislation and regulation reflect this priority and we are committed to ensuring we meet our requirements and where possible, exceed expectations.

Whether we are thinking of how to travel to work, what cup to drink from, how we design a new product, where we hold a meeting and the myriad of choices we make in our daily life, having carbon underpinning every choice we make and every action we take must be integral to us delivering our vision, mission, and strategic goals.

This year we have calculated our carbon footprint and the engagement with our staff has proved very useful in helping us to identify where we need to change our behaviour and how to do it. This has helped us to prioritise the key areas we want to focus on for the next year, as outlined in the detailed action plan. We also recognise that many of the measures we plan to take to reduce our carbon footprint will also help the us operate more efficiently, cut costs, and go some way to protecting us from inevitable future increases to fuel and energy costs.

Using the information gathered and working with our staff, we will be able to set challenging targets and report our progress on the journey to become a carbon neutral organisation.



**Steven Rose**  
Managing Director  
Rose Builders Ltd

**Date:** 21 September 2023

## Introduction

It cannot be stated strongly enough that meeting the ambition of the Government to be net zero by 2050 will be incredibly challenging. It is not yet clear whether it is an achievable goal, however, it is an ambition that Rose Builders Ltd is prepared to pursue, rather than ignore.

Therefore, this is not another service performance goal for the business, where control and accountability are clear, this is a challenge where the totality of the solutions needed is not clear and the approach taken will be emergent. We will need to put in place appropriate governance arrangements to ensure accountability, scrutiny, and support through existing decision-making processes.

Climate change is already upon us. While there are visible impacts of this in increased flooding, wind, rain and storm intensities, there are also hidden impacts such as droughts, biosecurity with the risk of invasive species, and seasonal changes to the food chains for species, and summer temperatures could increase by up to 10 degrees centigrade in parts of the UK if the current trajectory of global warming continues.

These impacts only highlight the need to act now on reducing our emissions. The details set out in the Action Plan require us to make good decisions about what to invest in, therefore we must understand the consequences of climate change with and without action.

The World Health Organisation identifies climate change as the greatest threat to global health in the 21<sup>st</sup> century. The impacts for the UK, although less than for some other parts of the world, will still be significant. There will be an increase in heat wave days and a longer heat wave season, resulting in greater risk of wildfires. There will also be periods of heavier rainfall, increasing the likelihood of widespread flooding. It is important that we act fast and set an example by implementing actions to reduce our impact on the environment.

## Context

Climate change is a real and immediate threat for us all. Carbon dioxide (CO<sub>2</sub>) levels have already reached their highest level for almost half a million years and are rising faster than ever. Like all businesses, Rose Builders Ltd has a key role to play in mitigating the effects of climate change, both as an employer and through the services they provide. Our climate change challenge falls into:

- ✎ Cutting the businesses carbon footprint
- ✎ Preparing for the impacts of a changing climate

Aside from the moral and environmental case for taking action to tackle climate change there are many other drivers for Rose Builders Ltd to address this issue. These include:

- ✎ Leadership - Taking strategic action towards reducing carbon emissions will ensure Rose Builders Ltd can lead the way in developing effective mechanisms to tackle climate change. This will help stimulate low carbon transitions across the regions in which we operate.
- ✎ Cost savings - With increasing pressure on all businesses to cut costs, reducing the amount spent on energy bills is a key driver for lowering our energy consumption.
- ✎ Reputation - With stretching national targets, there is increasing pressure on businesses to be seen as "doing their bit" and playing a leadership role on climate change action. Failure to act could lead to reputational risks and adversely affect the company's public image.

## Baseline

Our carbon footprint was first measured in 2023 for the baseline year of 2022. From this, we have developed practical carbon reduction targets for the year 2023-2024. Our 2022 Operational carbon footprint covers all applicable scope 1 and 2 emissions, along with all scope 3 emissions which could be accurately calculated.


### 2022 Operational Carbon Footprint Summary

In 2022, fleet was our largest emission source, accounting for over half (55%) of our total footprint. This was largely due to the use of fuel in both company vehicles and plant machinery. As a result, our emissions associated with “fuel & energy related activities” were also high (13.52%) due to the inclusion of Well-To-Tank (WTT) for fuel. Emissions from waste were also significant (13.84%) and this was largely due to the high percentage of landfilled waste by one waste provider.

Scope	Scope Category	Emissions (tCO2e)	% of Footprint
1	Fleet	1022.01	55.00
	Buildings	13.05	0.70
2	Electricity	60.19	3.24
3	Fuel & Energy Related Activities	251.15	13.52
	Upstream Transport & Distribution	0.34	0.02
	Waste from Operations	257.24	13.84
	Business Travel	80.50	4.33
	Employee Commuting & Homeworking	173.85	9.36
<b>Total</b>		<b>1,858.33</b>	<b>100%</b>

## Completed Carbon Reduction Initiatives

In order to reduce our environmental impact, the following carbon reduction initiatives have already been implemented:

-  Installation of solar panels across our office site.

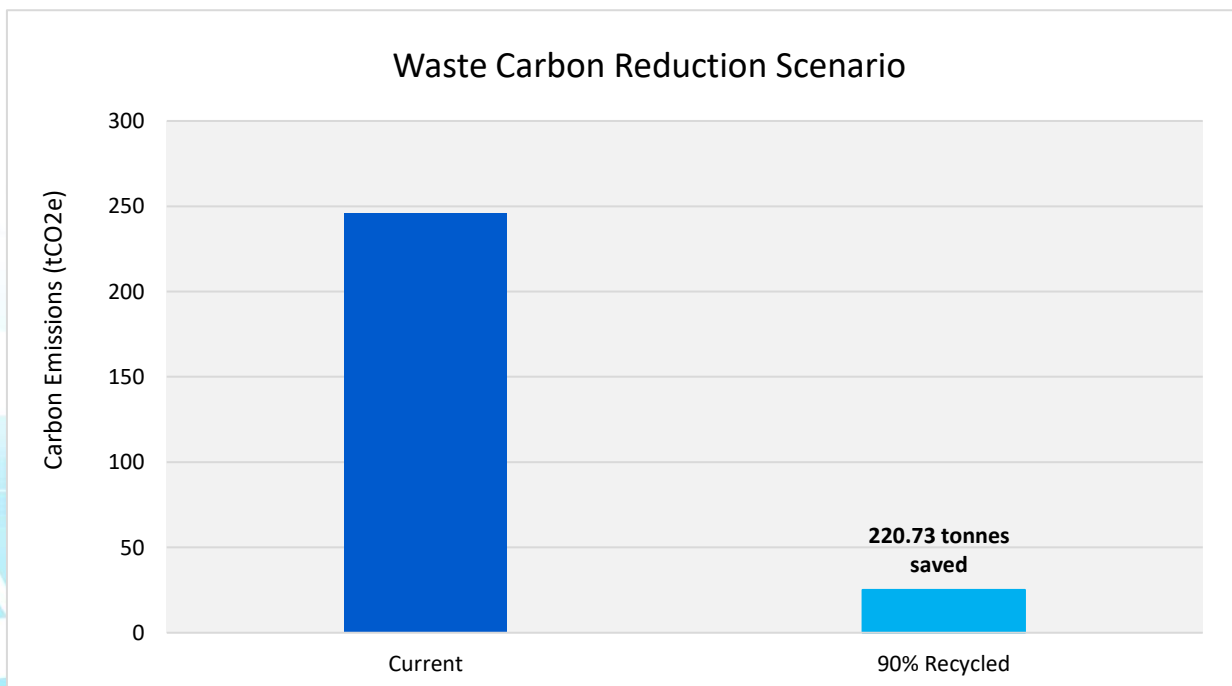
# Planned Carbon Reduction Initiatives

## 2024 Carbon Reduction Targets

Scope	Current Emissions (tCO <sub>2</sub> e)	Reduction by June 2024 (tCO <sub>2</sub> e)	Proposed Reduction Measures
1	1035.06	0.00	None
2	60.19	26.20	Switch to renewable electricity at office
3	763.09	220.73	Switch waste providers to reduce volume of waste sent to landfill by 90%
<b>Total</b>	<b>1,858.33</b>	<b>246.93</b>	<b>N/A</b>

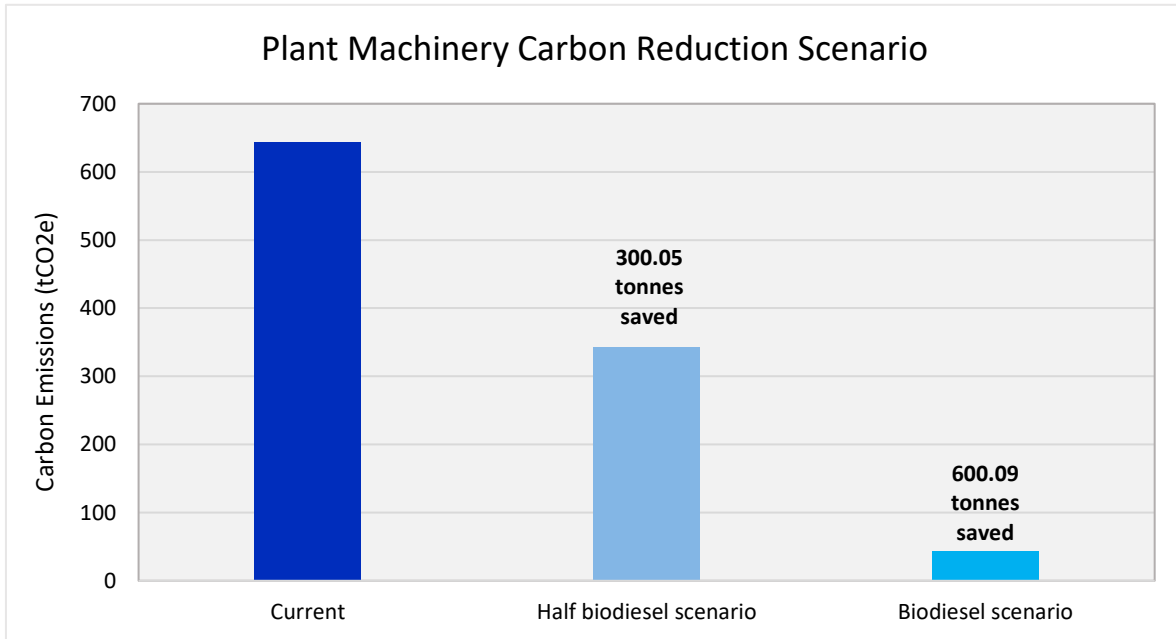
By the end of 2024, we aim to reduce our carbon footprint by 246.93 tCO<sub>2</sub>e, resulting in a total reduction of 13%. To achieve this, we firstly plan to switch to a 100% renewable electricity supply in our office, which will lead to an annual reduction of 26.20 tonnes of CO<sub>2</sub>e. After this has been implemented, our only scope 2 emissions will be those associated with electricity usage across our construction sites. Switching to renewable energy across our construction sites will be part of our longer-term carbon reduction strategy.

Secondly, we will adjust how our waste is disposed of to reduce the volume of waste sent to landfill. Specifically, we will work with the incumbent waste provider or switch our waste provider which currently send 526 tonnes of waste to landfill annually, to a more sustainable waste management company. Based on the assumption that 90% of this waste will be recycled, this will lead to a carbon reduction of 220.73 tCO<sub>2</sub>e. We plan to implement half of this reduction in 2023 (July to December) and the other half during the start of 2024 (January to June).



### Long Term Strategy

As part of our long-term carbon reduction strategy, we also plan to reduce our emissions associated with fleet. This includes emissions associated with both plant machinery and company vehicles. Scenarios have been run for partial and full transition to biodiesel plant machinery as shown below. By switching half our diesel and red diesel machinery to biodiesel, we could save 300.05 tonnes of CO<sub>2</sub>e. A complete transition to biodiesel would reduce our fleet emissions by 600.09 tonnes of CO<sub>2</sub>e.



Another long-term goal is to gradually swap all our company vehicles to hybrid and electric which would also have a significant positive impact on the size of our total carbon footprint. The speed at which this is implemented will depend on numerous factors including long term cost, practicality, and availability of supporting infrastructure.

### Reduction Graph

