
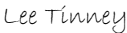



Issue	Date	Details
Issue 1	09/07/2023	Loram UK Carbon Reduction Plan
Issue 2	29/11/2023	Review and updated predicted emissions target

## Carbon Reduction Plan

This Carbon reduction plan (CRP) contains strategies and initiatives aimed at reducing greenhouse gas emissions, particularly carbon dioxide (CO2), to mitigate climate change and its impacts. This plan is the Loram UK Limited pledge to achieve net zero emissions by 2040 for operations within the United Kingdom.

	Name	Signature	Job Title	Date
Prepared by:	Carl Butlin		Assurance Manager	29/11/2023
Reviewed by:	Lee Tinney		Operations Director	29/11/2023
Accepted by:	HSQE Committee	N/A	HSQE Committee	N/A
Authorised by:	Debbie Francis		Managing Director UK	29/11/2023

## 1 Purpose

The purpose of a carbon reduction plan is critical in addressing climate change. The key purposes are:

- I. Mitigating climate change
- II. Protecting the environment
- III. Promoting public health
- IV. Enhancing energy security
- V. Fostering economic opportunities
- VI. Demonstrating leadership and responsibility
- VII. Ensuring long-term sustainability

## 2 Scope of Application

The scope of this carbon reduction plan refers to the range of activities, sectors, and emissions sources that are targeted for emissions reductions by the following scopes:

1. **Scope 1 Emissions:** These are direct emissions from sources that are owned or controlled by Loram UK. This includes emissions from combustion of fossil fuels in owned or controlled facilities, such as heating, power generation, and vehicle fleets.
2. **Scope 2 Emissions:** These are indirect emissions associated with the generation of purchased electricity, heat, or steam that Loram UK consumes. These emissions occur at the power plants or facilities where electricity is generated and are typically outside our direct control but are influenced by its energy purchasing decisions.
3. **Scope 3 Emissions:** These are indirect emissions that occur in the value chain of Loram UK, including both upstream and downstream activities. This encompasses emissions from sources such as purchased goods and services, transportation of products, employee commuting, business travel, waste generation, and other activities associated with Loram UK's operations but occurring outside our direct control.

## 3 LUK Baseline Emissions 2019

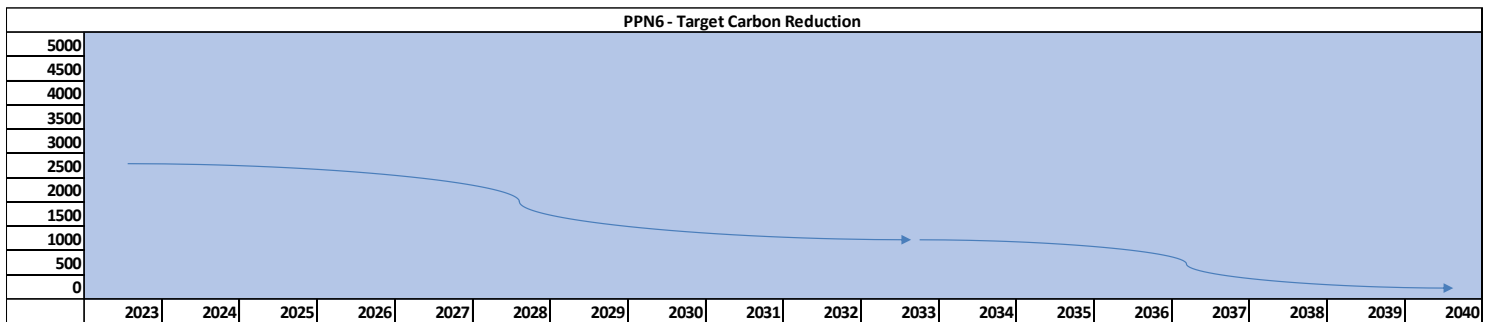
<b>Baseline Year 2019</b>	
The baseline emissions are from the 2019 Quarter 4 summary.	
Emmissions	<b>TOTAL (tCO2e)</b>
Scope 1	333152
Scope 2	1608727
Scope 3	2309
Scope 1,2 and 3 total emisions	<b>3,616 Tonnes</b>

#### 4 LUK Annual Emissions 2023

<b>Baseline Year 2023</b>	
The baseline emissions are from the 2023 Quarter 4 summary.	
Emmissions	<b>TOTAL (tCO2e)</b>
Scope 1	79251
Scope 2	1474289
Scope 3	59956
Scope 1,2 and 3 total emisions	<b>2,721 Tonnes</b>

#### 5 Predicted Emissions Reduction Target

This graph below illustrates the predicted carbon reduction from 2023 to the net zero target of 2040.



#### 6 Carbon Reduction Initiatives

The following key carbon reduction projects are to be considered for future continuous improvement projects.

Phase	Year end 2024	Year end 2025	Year end 2026	Year end 2027
1	Appointed HSQE Advisor to develop and drive the carbon reduction initiative	All energy used to be from renewable sources	Introduction of Electric and Plug in Hybrid Electric Vehicles (PHEV) to the van fleet	Hydrotreated Vegetable Oil (HVO) fuels used (Scope 1)
2	Explore achieving ISO 50001:2018 Energy Management	Procurement to use suppliers committed to carbon reduction and sustainability (Scope 3)	Reduce the use of solvent paint systems and increase water based alternatives	
3	Explore smart metering for all energy consumption		25% reduction in business travel	Achieved ISO 50001:2018 Energy Management

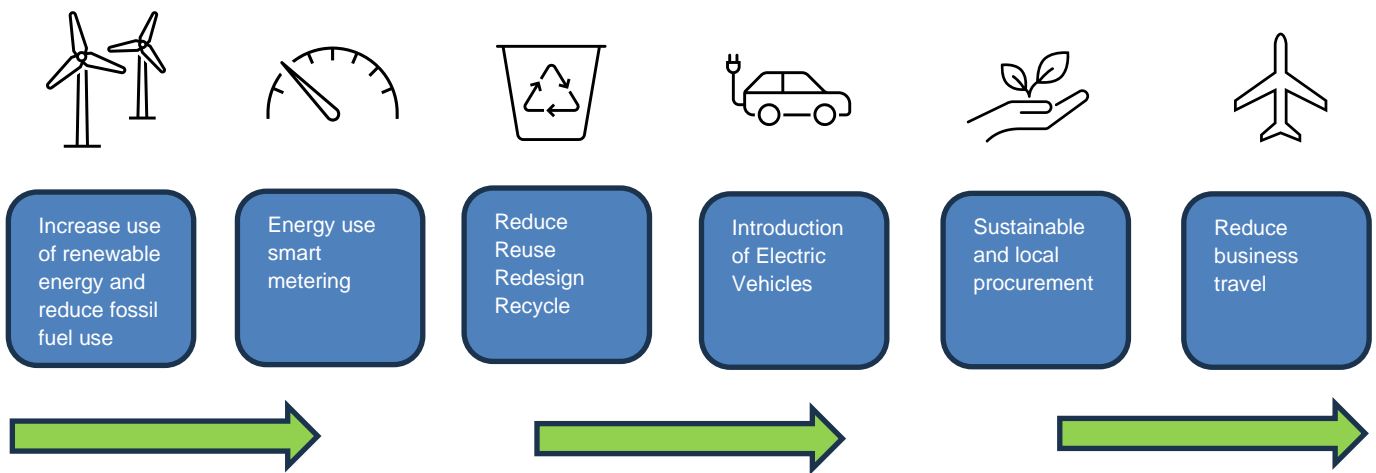
## 7 Carbon Reduction Enablers

The following key enablers are now in place at Loram UK to achieve its net zero ambitions:

- I. Continued review of this carbon reduction plan and reported at the annual review.
- II. Electric and Plug in Hybrid Electric Vehicles (PHEV) charge points installed at Loram House
- III. Introduction of cycle to work scheme
- IV. Introduction of 'DocuSign' to reduce/eliminate paper processes
- V. Replacement of existing workshop lights with LED lamps through routine maintenance
- VI. Installation of timer/motion sensors on all office spaces/washrooms and locker rooms
- VII. Block card digitalisation to reduce/eliminate paper processes

## 8 Carbon Reduction Flowchart

This flowchart demonstrates our targets to reduce carbon emissions working towards 2040



## 9 Carbon Reduction Plan Summary

Loram UK's operational carbon footprint has been calculated as 3,616 Tonnes of CO<sub>2</sub> for the baseline year, based on the 2019 data. This value includes available data for Scope 1, 2 and 3 emissions related to our business activities. Our biggest contributors to our carbon emissions were our electricity and gas consumption accounts from scope 2.

The recording of accurate data to support and maintain this CRP is essential, this is inclusive of recording accurate values for materials and services within IFS from our suppliers. Loram UK are committed to recording our CO<sub>2</sub> contributing activities and better understand the impacts of our operations and how we can reduce them. The baseline carbon emissions will be continually evaluated to report on our carbon footprint quarterly via a digital dashboard.

## 10 Scope of Data

The scope of data included has evolved with the increase in activities at Loram UK with the inclusion of the Side Tipper conversion project as an example. The data was collected for activities which would have the highest impact on our CO<sub>2</sub> emissions;

- Gas, Electricity and Water consumption
- Volume of Diesel used on the 08 Class Locomotives used in Shunting operations

- Bottled gas used – Welding and Fork Lift Truck fuel
- Car fleet/Business Mileage/Rail & Air Travel
- CO<sub>2</sub>e of VOC from paint operations.
- Volumes of Waste – WEEE, Metals, Paper/card, landfill
- PPE & Uniform – Laundry and New Sets
- Volumes of office consumables (paper, card)

## 11 Further Research.

### Carbon Reduction Plan Factors and considerations

**Renewable Energy:** Transitioning from fossil fuels to renewable energy sources such as solar, wind, hydroelectric, and geothermal power reduces carbon emissions associated with electricity generation.

**Energy Efficiency:** Improving energy efficiency in buildings, transportation, manufacturing, and other sectors helps reduce energy consumption and associated carbon emissions.

**Regulations and Standards:** Enacting regulations and setting emission standards for industries, vehicles, appliances, and buildings can help limit carbon emissions.

**R&D and Innovation:** Investing in research and development of clean technologies and low-carbon solutions can accelerate the transition to a low-carbon economy.

**Afforestation and Reforestation:** Planting trees and restoring forests can absorb CO<sub>2</sub> from the atmosphere, acting as a natural carbon sink.

**Transportation:** Promoting public transportation, electric vehicles (EVs), and alternative fuels can reduce emissions from the transportation sector, which is a significant source of carbon emissions.

**Education and Awareness:** Increasing public awareness about the causes and impacts of climate change and promoting sustainable behaviours can foster support for carbon reduction efforts.

**International Cooperation:** Collaborating with other countries and participating in international agreements such as the Paris Agreement can facilitate coordinated action on a global scale to address climate change.

## 12 Science Based Target Initiative (SBTi)

The SBTi assesses and approves targets based on criteria that ensure they are consistent with the latest climate science. These targets can cover emissions from a company's operations (Scope 1 and 2 emissions) as well as emissions from their value chain (Scope 3 emissions). By setting science-based targets, Loram UK can contribute to global efforts to mitigate climate change while also improving their sustainability and resilience in a changing climate.

## 13 Loram Training and Awareness

Carbon and the climate training is available via 'Cornerstone' for all employees and can be assigned by line managers.

