Carbon Reduction Plan 2023

Our Commitment To Carbon Zero By 2050



Here at Linbrooke Services Ltd, we have set out to be the market leader in technology and connectivity integration across UK infrastructure and our people are at the heart of everything we do. Therefore, a key component to successful operations is ensuring we provide a healthy, happy and sustainable organisation for our employees to work within and for the world we live in.

At Linbrooke, we want our employees to be aware of the impact their work has on the environment, both positive and negative, and be aware that their work is contributing to a wider cause. This will ensure our work will be delivered not only to a high standard for our clients, but sustainably and with minimal impact on the environment.

We understand the importance of working sustainably and with a low environmental impact, both for ourselves, the earth and our clients and customers. Our work directly and positively impacts both national and international infrastructure and therefore carbon reduction is a main component to operating sustainably. This carbon reduction plan therefore aims to lay out our targets and plans for implementation in order to reduce our carbon emissions to Net Zero by 2050.

Our Commitment to Net Zero by 2050



To achieve our **Carbon Reduction Targets** and deliver our carbon **Net Zero Strategy by 2050**, we will work with our supply chain to significantly reduce the carbon emissions from our infrastructure and engineering activities. This includes the embodied carbon from our materials, our operational carbon from on-site activities and our emissions from operating and maintaining the railway. It also includes moving to a circular economy where we keep materials and resources in circulation and waste to an absolute minimum.

Our Commitment to Net Zero is supported by our **3-year Planet Pillar Roadmap**, which initially lays out actions and targets for achieving short term carbon reduction, and our commitment to reducing carbon in line with Science Based Targets.

To demonstrate our commitment to a Carbon Reduction Plan, which will contribute to climate change mitigation, the following sections set ouut our strategy and evidence on our approach to reducing energy consumption, carbon emissions and waste.

Science Based Carbon Reduction Targets

In 2022 Linbrooke launched our Safety & Sustainability Strategy which is based on 6 pillars, one of which is "PLANET".

Each pillar has a 3-year road map which demonstrates our ongoing commitment to reducing our negative environmental and social impacts and leaving a lasting positive legacy on all projects.

One of our first actions is committing to **Science Based Targets**, which will contribute to the Network Rail Environmental Sustainability Strategy target of 75% of suppliers having Science Based Targets by 2025.

Further targets will focus on culture, including our impact on local communities.

Therefore, in 2022, Linbrooke has committed to carbon reduction in line with Science Based Targets which will see our carbon emissions reduced by 42% by 2030 based on a 2021 baseline. We are confident in achieving this reduction as the past 2 years have seen significant improvements in our carbon monitoring program and environmental data collection, with monthly figures on all carbon, energy and waste outputs rigorously collected and analysed.

Our Science Based Target commits Linbrooke to aiming for an annual 5.25% annual reduction in carbon emissions until 2030.

Aligned with Procurement Policy Note 06/21:

Our **Carbon Reduction Plan** which is supported by our Planet Pillar roadmap is fully aligned to the Procurement Policy Note 06/21.

Included in our action plan specifically is ensuring that commitment to **Net Zero and our Science Based Targets** are taken into account in the Procurement of relevant contracts.

This is supported by our supplier PQQ, where suppliers are asked for information on their environmental management, alignment to **ISO 14001** as well as their plan for carbon reduction.



2022-2030 Action Plan

Linbrooke recognises that over 85% of our Carbon Footprint is in relation to our transport-related fuel use. Due to the nature of many of our smaller projects, we have a significant number of smaller, transient sites that require daily travel. Therefore, a focus of our 3-year Planet Pillar roadmap is fuel use, including targeting improvement in the following areas:

- < Establish baseline data Implement high-quality data collection and monitoring 2022 Implement staff training and briefings to increase engagement Focus on property portfolio: roll out 100% renewable electricity contract Commit to Science Based Targets 🥝 Review fleet management and plans for future fleet e.g. electric vehicle uptake Implement car sharing scheme Implement zero idling policy 2023 Review sustainable travel management Reduce site fuel use including increasing use of hybrid/electric site generators Pilot the use of battery powered tools S S Begin acquisition of scope 3 data 2024 • Work with our procurement team and suppliers to obtain high quality carbon data for material Ш • Review 3 year roadmap progress Ľ Update and publish Planet Pillar Roadmap for 2025-2030 Establish further short term targets to support 2030 carbon target 2025 Establish company position on carbon offsetting Implement new roadmap to achieve Science Based Targets
- 2025-2030 Review and publish process on Science Based Targets Implement further targets if required
 - Create and publish 2030-2050 Net Zero Roadmap
- 2030-2050 Implement and continually review Roadmap to Net Zero



Our Carbon Footprint:

In previous years, we have achieved significant reduction in carbon emissions against our turnover, demonstrating the growth of the business whilst sustaining low environmental impact operations. Between the financial year 2020-21, and 2021-22, we realised a 23% reduction in carbon per £1m turnover, despite a ramp-up in operations following the impact of the COVID-19 pandemic on 2020 operations. However, this does not represent a gross reduction in carbon emissions, and therefore Linbrooke is going further to reduce our gross environmental impact by implementing Science Based Targets and a 5 year roadmap of environmental improvements.

Linbrooke has already successfully implemented the following initiatives which have contributed to our overall reduction in carbon emissions:

- Provision of electric vehicle points in Head Office to encourage electric vehicle use
- Provision of 100% renewable electricity in all Linbrooke office/warehouse locations
- LED lighting rollout in all offices to increase efficiency
- Electric site van pilot scheme on our West Hampstead Life Extension project
- Increasing company car options to cover more hybrid and electric vehicles
- Sustainable Travel Policy included as standard in all project Environmental and Social Management Plans
- Improvements in data collection, monitoring and reporting
- Commitment to Science Based Targets.

Baseline Emissions Footprint

Baseline Year: 2021

Emissions	Total (tCO₂e) See dashboard PDF for detail
Scope 1	1,301.92
Scope 2	66.81
Total	1368.73









TOTALS Electricity = Gas Mileage Fuel from transport Fuel from generators

Carbon Reduction – Projected vs Actual

In order for Linbrooke to achieve Science Based Target for 2030, we aim to achieve a 5.25% reduction in carbon emissions every year until 2030. This will be followed by further annual reductions over 20 years, and the potential to offset residual carbon, in order to achieve Net Zero by 2050.

In 2022, we achieved a gross 3% reduction in our carbon footprint compared to our 2021 baseline. Although this is shy of our 5.25% annual reduction target, we are confident that given our focus in 2023 on fuel reduction our ongoing carbon reduction targets can still be achieved.

Reporting Year: 2022

Emissions	Total (tCO ₂ e)
Scope 1	1,284.48
Scope 2	57.12
Total (tCO ₂ e)	1,341.6



Carbon emissions: Science Based Target progress



The above graph demonstrates our 2022 carbon emissions in comparison with our carbon targets and 2021 baseline.





Circular Economy

Linbrooke is committed to implementing a waste management strategy that enables the connection between high-quality, on-site waste management and our projects. As such, material acquisition and disposal will implement methods that reflect a circular economy. This will include reviewing the potential to use recycled or surplus materials instead of purchasing virgin materials. Where this isn't possible, sustainably manufactured and locally sourced materials will be preferred.

Furthermore, where there are surplus materials at the end of the project, transferal of these materials to Network Rail's SUR+ program will be prioritised to allow the materials to be re-used again. If this is not a possibility, the materials and waste will be disposed of at an authorised recycling facility. This aims to promote a circular economy and ultimately reduce the amount of waste going to landfill and incineration, which emits the highest amounts of carbon.

As part of the recent Eastern Region MK1 Level Crossing Barrier Renewals Project 100% of the redundant barrier machines were fed back into Network Rail as strategic spares and care taken not to damage them during recovery.

Energy Management System

Included in our ISO 14001 accredited EMS is our energy management system, which includes monthly monitoring of energy consumption across all divisions. These are analysed for ongoing trends and linked to opportunities for energy reduction and improvements.

Carbon Reduction Performance Over The Last 5 Years

Linbrooke can demonstrate a reduction in tonnes of carbon per £1m turnover for the last two years in a row, with a near 30% reduction in tonnes of carbon per £1m turnover between the years 2020-21 and 2021-22. This demonstrates an overall increase in carbon efficiency with our increasing workload.

Carbon Reduction – Initiatives Example 1 | Improving Energy Efficiency

Site welfare facilities are typically comprised of diesel generated self-contained cabins. However, low carbon solar powered hybrid welfare cabins are preferred on Linbrooke sites, which are backed up by a bespoke 12v super silent generator which stops and starts as required, to reduce operational risk as well as carbon emissions.

The cabins are fitted with low voltage LED lighting throughout, to ensure that the renewable energy is used efficiently and welfare requirements are not sacrificed, as hot and cold running water is available in both the canteen and toilet area. Use of these types of cabins emits 16.28kg of carbon emissions on average over a 45 hour working week, in comparison to 450kg for the standard diesel powered cabins. Use of these welfare units save over 95% of carbon with benefits including

- Lower operational cost and more efficient use of energy
- Low carbon footprint of project, in scope with Network Rail's net zero by 2050 target
- Lower noise, nuisance and complaints plus reputational benefits

Additionally, Linbrooke's office at Brent Cross is partially powered by solar energy and as part of the West Hampstead Life Extension Project we are trialling the use of an Electric Van which has the added benefit of not attracting London Emission Zone Charges. Electric Vehicle Charging points are installed at Linbrooke's offices as the number of hybrid vehicles in the fleet is continually increasing.





Example 2 – Reducing Material Consumption and Waste

West Hampstead Life Extension is a large-scale life extension project within the Eastern Region that involves upgrading. Location cases and associated cabling/route works. The scope requires interventions over long distances of railway, so efficiency and sustainability is a key factor to success.

Traditionally, when upgrading old assets, designing out waste may not possible. Direct re-use of broken cable or redundant assets for example is not possible. Innovative waste solutions must therefore be sought to ensure zero waste to landfill.

On the West Hampstead Life Extension project part of the renewals included the removal of large volumes of redundant cables. The project team worked in conjunction with SEVA Rail to utilise a system that converts redundant recovered cables into rubber compound and metal granules. These are both 100% recyclable and zero waste to landfill.

This same project also designed out waste through the use of an Anchor Foundation System as an alternative support system for Location cabinets. The Project Management team identified a new and innovative piling method for the foundation systems that provides an alternative to digging up vast areas of earth and filling with concrete. Instead, the latest screw anchor piles are used, that provide a support system for the Location cabinets but do not require concrete. This reduces embodied carbon by 73%.

Furthermore, this design solution can be implemented without the need for Road Rail Vehicles. This combined with the reduced timescale for installation results in costs up to 40% lower than those of a conventional solution. On the 2nd of December 2021 this method was trialled as Linbrooke installed the piles for the first new location cases at Harlington as part of the Flitwick Interlocking Intervention. The trial was a success and despite freezing cold conditions, the team achieved the full scope of 4 piles installed in a single midweek rules of the route possession.

The West Hampstead Life Extension project team at Brent Cross, has reduced their material waste further by creating a break out seating area outside the office through the re-use of redundant cable drums, which also provides a secluded area for staff to have a break.

Linbrooke Low Cost/Low Carbon Location Staging

Linbrooke Brent Cross Depot





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 standard¹³ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting¹⁴.

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) Standard¹⁵.

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:

1st February 2023

David McLoughlin Chairman



СОМРЕТЕNСЕ

Competency is fundamental to each person who works and represents Linbrooke. Without competency, we fail not only the business, industry and our clients but, most importantly, our workforce.

RISK

Effective Risk Management is the keystone of effective corporate governance and the maintenance of a strong control environment.

PLANET

Reducing the overall negative impact that Linbrooke has on the environment will ensure we meet our current operational needs responsibly and meet our clients' expectations.

Safety & Sustainability Strategy

SUPPLY CHAIN

The use of supply chain is a key risk associated with Linbrooke operations and measurable deliverables on our projects.

HAPPINESS

The happiness and health of our colleagues are paramount to the success of Linbrooke operations.

CULTURE

Through promoting respect, accessibility and effective communication, we can build an increasingly equal, diverse and inclusive organisation with equal opportunities.

