



2026 Carbon Reduction Plan

Bamford Bus Company Limited, trading as Wrightbus

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Prepared in accordance to PPN 06/21

1. Commitment to achieving Net Zero.....	2
2. Baseline GHG Emissions Footprint.....	3
3. Current GHG Emissions Reporting.....	5
4. Progress Against Targets.....	6
4.1 Target 1	6
4.2 Target 2	7
4.3 Target 3	11
5. Carbon Reduction Projects.....	12
5.1 Completed Carbon Reduction Initiatives	12
5.2 Future Carbon Reduction Initiatives	12
6. Declaration and Sign Off	13
Appendix A – Scope 3 Calculation Methodology.....	15
Appendix B – Green Energy Certificate	17



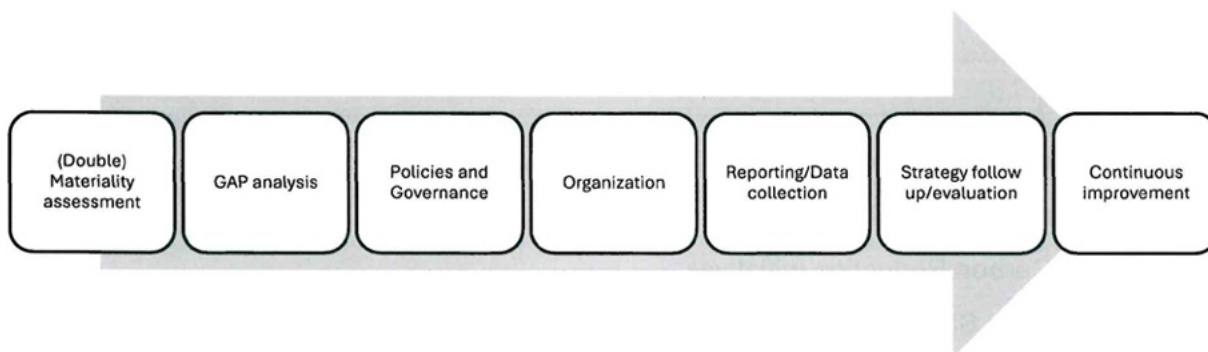
1. Commitment to achieving Net Zero

Bamford Bus Company Limited, trading as Wrightbus is committed to achieving net zero greenhouse gas (GHG) emissions by 2050, but preferably earlier.

Our Carbon Reduction Plan has been signed off by our ESG Committee; a team of cross functional business leaders and members of the Executive Leadership Team and is supported by sub working groups focussing on specific issues as needed.

It is the responsibility of the committee to:

- ✓ Provide leadership and strategic direction on ESG matters including risks and opportunities to the Board,
- ✓ Monitor WB's performance against our most significant ESG objectives and commitments, and,
- ✓ Decide roadmap and strategic priorities to embed ESG into key business processes and drive value.



Bamford Bus Company Ltd.'s Carbon Reduction Plan has three core targets:

Target 1	Reduce scope 1 & 2 greenhouse gas emissions for every bus we produce by at least 50% by 2030 compared to base year of 2021.
Target 2	Implement processes to measure and reduce our scope 3 greenhouse gas emissions.
Target 3	Achieve net-zero greenhouse gas emissions by 2050, but preferably earlier.

2. Baseline GHG Emissions Footprint

Scope 1, 2 & 3 GHG emissions are calculated for our baseline year of 2021 (Table 1).

Table 1 2021 Baseline GHG Emissions (Scope 1, 2 & 3).

Baseline Year: 2021 (01/01/21 – 31/12/21 inclusive)	
Emissions Category	Total Emissions (tCO₂e)
Scope 1	2,108.8
Scope 2	1,396.4
Scope 3 (See breakdown below. Appendix A details the calculation methodology)	3,077.4
<i>Category 4 - Upstream transportation & distribution</i>	2,308.8
<i>Category 5 - Waste generated in operations</i>	94.4
<i>Category 6 - Business travel</i>	104.3
<i>Category 7 - Employee commuting</i>	271.2
<i>Category 9 - Downstream transportation & distribution</i>	298.7
Total Emissions	6,582.7
Additional Details relating to the Baseline Emissions calculations.	
<ul style="list-style-type: none"> ▶ 2021 baseline selected as first full year in operation as Bamford Bus Company Ltd with sufficient data for emissions calculations. ▶ In accordance with the GHG Protocol's Corporate Standard¹, carbon emissions within our operational boundary have calculated on the basis of activities in which Bamford Bus Company Ltd has operational control over within the UK. ▶ Scope 1 GHG emissions (direct) are from activities owned or controlled by Bamford Bus Company Ltd including emissions from combustion in owned or controlled boilers, furnaces and vehicles, i.e., natural gas, diesel, heating oil, etc. 	



- ▶ Scope 2 GHG emissions (energy indirect) are released into the atmosphere from the generation of electricity consumed by Bamford Bus Company Ltd.
- ▶ Scope 3 GHG emissions (other indirect) are a consequence of Bamford Bus Company Ltd actions the occur at sources outside of our control.

3. Current GHG Emissions Reporting

- Total Scope 1, 2 & 3 GHG emissions have increased by 84.7% from the baseline year 2021.
- From 2021 to 2025, Bamford Bus Company Ltd experienced significant growth; a 291.9 % increase in production volumes. Hence, our targets are based on tCO₂e per bus (see Section 4).
- Total Scope 2 emissions increased significantly in 2025 due to the expansion of our Bicester site to build out our Newpower facility, which focuses on retrofitting diesel bus and truck, with a zero-emission EV driveline.

Emissions Category	Total Emissions (tCO ₂ e)					% change from previous year
	2021 (Baseline)	2022	2023	2024	2025	
Scope 1	2,108.8	2,923.8	2,661.2	3748.7	3673.1	-2.0%
Scope 2	1,396.4	0.0	0.0	38.2	147.3	+ 285.6%
Scope 3 (See breakdown below. Appendix A details the calculation methodology)	3,077.4	4,292.8	5,544.6	8463.8	8,337.6	+52.6%
<i>Category 4 - Upstream transportation & distribution</i>	2,308.8	2,302.6	1,843.9	3694.6	3999.3	+8.0%
<i>Category 5 - Waste generated in operations</i>	94.4	121.5	231.4	342.6	260.4	-24.0%
<i>Category 6 - Business travel</i>	104.3	312.9	1,046.0	1419.6	865.0	- 39.1%
<i>Category 7 - Employee commuting</i>	271.2	898.2	1,168.1	1440.7	1635.9	+ 13.55%
<i>Category 9 - Downstream transportation & distribution</i>	298.7	657.7	1,255.1	1566.3	1577.0	+0.68%
Total Emissions	6,582.7	7,216.6	8,194.1	12250.7	12158.0	- 0.75%



4. Progress Against Targets

4.1 Target 1

Target 1	Reduce scope 1 & 2 greenhouse gas emissions for every bus we produce by at least 50% by 2030 compared to base year of 2021.
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Scope 1 & 2 GHG emissions reductions against targets are shown in Figure 1. **We have already achieved this target several years ahead of schedule; in 2025 our scope 1 and 2 GHG emissions per bus produced was 3.45 tCO₂e, a 71.4% reduction from the baseline.**

Enablers:

- ✓ Switching electricity consumption to a Green Energy tariff, effectively eliminating all scope 2 GHG emissions from our production line in Ballymena.
- ✓ Reducing our reliance on gas oil heating and switching to natural gas.
- ✓ Improvement in production efficiencies and implementation of energy reduction schemes, e.g. engineering controls on air handling units for factory heating.
- ✓ Increase in production share of zero-emission battery-electric and hydrogen fuel-cell buses, reducing the need for diesel fuel used for pre-delivery inspection test drives.

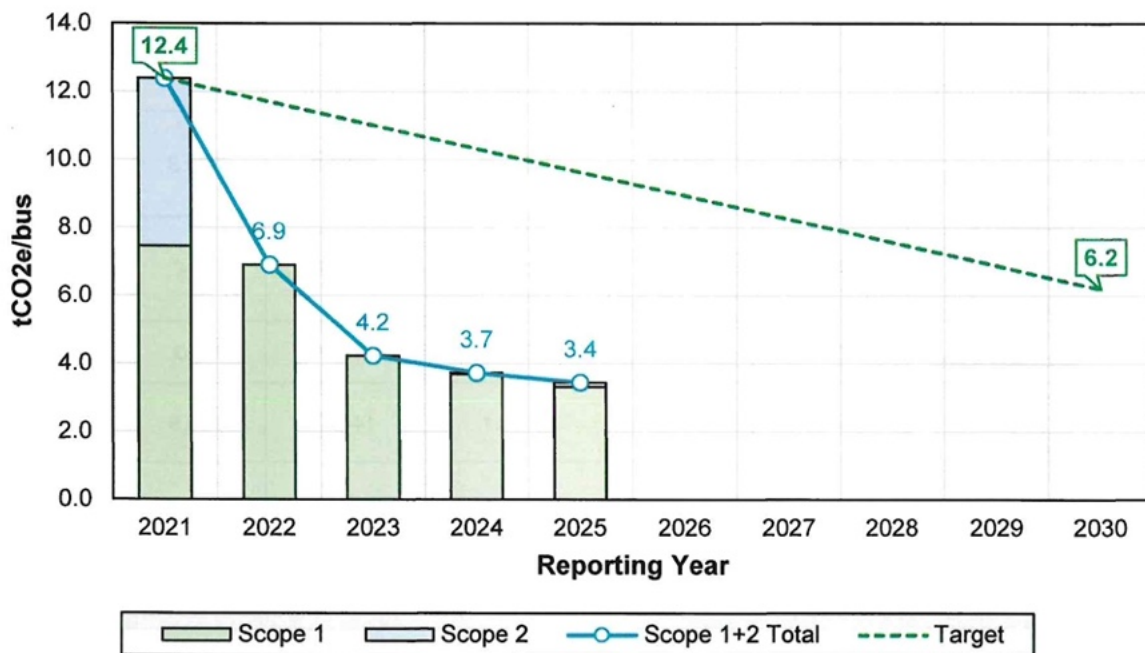


Figure 1 – Progress against Target 1.

4.2 Target 2

Target 2	Implement processes to measure and reduce our scope 3 greenhouse gas emissions.
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We intend to expand our in-house Carbon Calculation Tool to include further scope 3 categories and understand, holistically, the indirect impact of producing zero-emission buses. In 2025, we have made significant progress in strengthening our supply chain due diligence to understand our greatest environmental and social impacts across the value chain and improve our due diligence and risk assessments and mitigation. We are engaging through the SEDEX platform using SMETA audits to ensure continuous improvement starting with our suppliers in highest risk countries.

Upstream Scope 3 Emissions not yet reported on:

Category 1 - Purchased goods and services

Category 2 - Capital goods

Category 3 - Fuel and energy related activities (not inc. in scope 1 & 2)

Category 8 - Upstream leased assets

For categories 1 & 2; as part of our procurement processes, we require our key suppliers to have, or be working towards BS EN ISO 15001:2015, the internationally agreed standard for Environmental Management Systems (EMS). By ensuring our key supply-chain partners are accredited to ISO14001:2015, this ensures a minimum internationally recognised standard for environmental sustainability and establishes a procedure for regularly reviewing and improving environmental performance. Several of our key tier 1 & 2 suppliers, representing 69.8% of the bill-of-materials value, are accredited to this standard.

Our Engineering and Strategic Purchasing teams carefully consider the materials used to build our vehicles and the impact they have on the environment, including but not limited to:

- **Aluminium lightweight body structure:** Wrightbus pioneered many innovative aluminium-based bus build methods as far back as the 1970s, recognised to this day as the most durable, cost-effective and easily repairable systems on the market. By reducing the amount of material needed through part design, this lightweighting further improves energy efficiency of our vehicles and reduces overall life-cycle carbon footprint. **Our aluminium alloys are highly recyclable and sourced primarily from the Netherlands.**

Non-virgin alloy may be permitted in the vehicle design, provided it complies to minimum technical specifications (for safety reasons) set out in our internal quality procedure “WMP-1096 Metal Componentry Supply Specification”.

- **Steel chassis and frames:** - the backbone of our vehicle & infinitely recyclable. As an integral manufacturer, we have full control over the vehicle chassis & body design, meaning we can optimise for lightweighting across the entire vehicle. All steel components are **manufactured locally in Northern Ireland by approved suppliers, with material sourced from EU countries** to the specification required – varies depending on the structural requirement. Non-virgin alloy may be permitted in the vehicle design, provided it complies to minimum technical specifications (for safety reasons) set out in our internal quality procedure “WMP-1096 Metal Componentry Supply Specification”.
- **Timber flooring:** all of our timber is sourced from Finland, is **PEFC certified and conforms to UK government procurement requirement CPET Cat A**, ensuring the origin forests are managed according to strict environmental, social and economic criteria. The timber supplied is a mixture of [spruce and birch absorb less CO₂ over their lifetime compared to other tree species](#) (e.g. pine, oak, coppice) – this means we are not unintentionally sourcing wood which may be better suited as a carbon sink.
- **GFRP:** Much of the bus’ interior and exterior uses glass-fibre-reinforced-polymers (GFRP), as a lightweight choice for improving on-board energy efficiency. Recycled fibreglass has also been identified as a material in second-life applications to improve concrete strength whilst reducing carbon footprint. Wrightbus are funding a QUB/W-Tech based PhD **project investigating the feasibility of using locally sourced natural fibres to replace a significant proportion of the glass fibres in GFRP components to increase the product sustainability and reduce our carbon footprint**, without increasing cost, weight or compromising on the structural integrity of the component.
- **Paint/Adhesives/VOCs:** **Volatile organic compounds (VOCs) in our floor covering have been radically reduced by up to 88% by switching to a self-adhesive floor covering.** For sealants (e.g. Sika) we have moved to lower VOC options and also eliminated the need for high VOC primers. Recycling of acetone in our composites manufacturing facility are expected to reduce virgin usage and VOCs by up to 75%. VOCs in our underbody wax reduction have been achieved by using powder coating in place of

corromet on the chassis as the powder coating needs less of thickness of wax for protection. Our current estimate is ~15.7 kgVOCs are produced for every bus we build, but will undertake a study in 2025 to confirm. For reference, automotive manufacturing produces ~5.6 kgVOC per car (calculated from this published [journal article](#)).

- **Glass**: conforms to ECE Reg 43 and **sourced from the UK and EU suppliers. Tints can be applied to reduce energy demand of the saloon heating system** by retaining solar energy, with up to 35% energy savings possible from alternative tints.

Building on this, we intend to expand our in-house Carbon Calculation Tool to capture additional Scope 3 impacts and collect more detailed primary data from suppliers on the manufacture of components and subsystems. This work will support a full life-cycle assessment to ISO 14040, delivered through a further funded PhD project with W-Tech/QUB. The outputs will provide the foundation for our future Scope 3 target-setting. As this work progresses, we also aim to develop Vehicle Design KPIs, including measures for recyclability content.

We also consider the following when sourcing materials:

- ✓ Source materials more locally to decrease transportation emissions and costs.
- ✓ Use reclaimed, post-industrial grades of plastic instead of virgin materials when possible.
- ✓ Reduce the amount of material needed through part design. This lightweighting further improves energy efficiency of our vehicles.
- ✓ When possible, select a compostable plastic.
- ✓ Select minimalistic packaging made from material that can be or have already been recycled or reclaimed.

For category 3, we intend to include “well-to-tank” emissions for purchased fuels and electricity (including any transmission and distribution losses).

Category 8 is not currently applicable, but we will continue to monitor and report, if necessary,

Downstream Scope 3 Emissions not yet reported on:

Category 10 – Processing of sold products

Category 11 – Use of sold products

Category 12 – End-of-life treatment of sold products

Category 13 – Downstream leasing franchises

Category 14 – Franchises

Category 15 - Investments

Category 10 is not applicable – there are no further or intermediate “processing, transformation or inclusion of another product” for our buses before delivery to the customer.

For Category 11, the energy consumption of our buses can be monitored via our in-house telematics platforms (or requesting customer’s data where this is unavailable). As they majority of our products are zero-emissions at the point of use, indirect emissions will be zero. We will continue to monitor and report, if necessary,

Category 12 is currently not applicable – buses typically have a 15-year design life. As Bamford Bus Company Ltd was formed in 2019, none of our products have yet reached “end of life” and we are currently developing a strategy for the disposal of end-of-life batteries as this will become relevant for the business in the coming years. All of our batteries will include a passport under the EU Battery Passport legislation from ‘27.

Categories 13, 14 & 15 are not currently applicable, but we will continue to monitor and report if necessary.

4.3 Target 3

Target 3	Achieve net-zero greenhouse gas emissions by 2050, but preferably earlier.
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Scope 1, 2 & 3 GHG emissions reductions against targets are shown in Figure 2.

In 2025 our total GHG emissions per bus produced was 10.96 tCO₂e, a 47% reduction from the baseline.

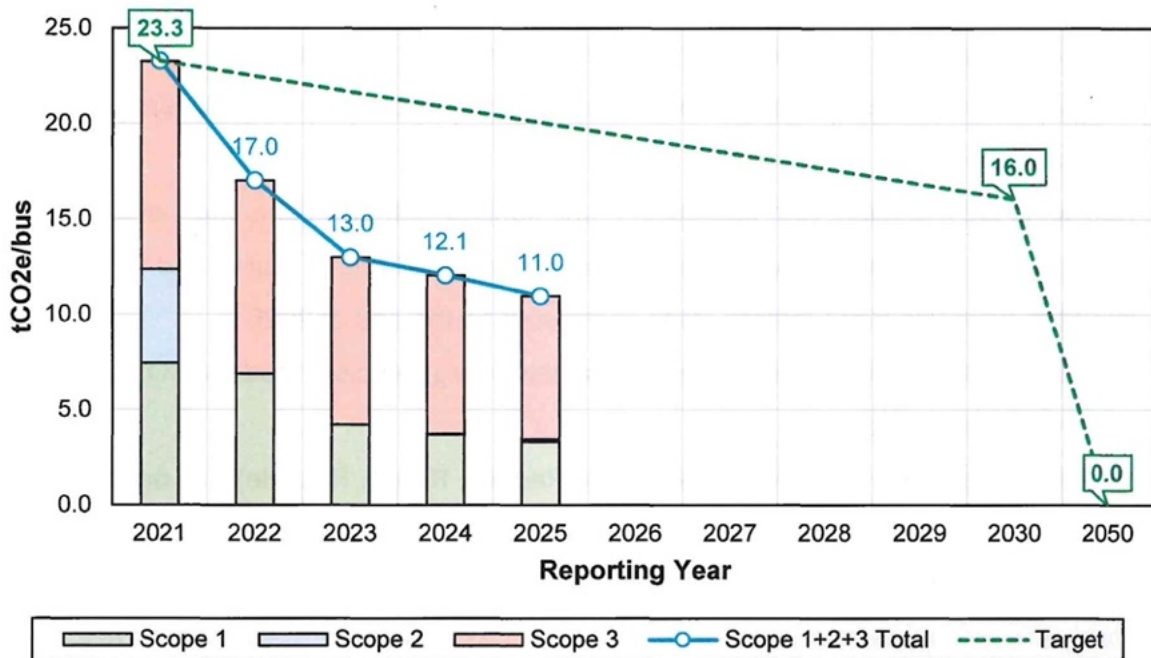


Figure 2 – Progress against Target 3.

5. Carbon Reduction Projects

5.1 Completed Carbon Reduction Initiatives

- ✓ Our Environmental Management System is certified to internationally recognised standard BS EN ISO14001:2015 and helps our business to monitor, control and improve our overall environmental performance and responsibilities.
- ✓ Our senior leadership, along with several SMEs in our supply chain have undertaken Carbon Literacy training with Business in the Community NI (BitCNI), helping to ensure we collectively reduce our impact on the environment .and
- ✓ From January 2022, we have switched to a green energy tariff and pursuing credentials to ensure all electricity supplied to site is from local, renewable sources with zero CO₂e emissions at the source.
- ✓ Replacing old inefficient twin fluorescent tube lighting with LED lights that have integrated wireless PIR and photocell controls. We have completed this in four of our factories and intend to have two more factory areas completed by the end of 2026.
- ✓ In 2026 - Replacing aged compressor with a new energy efficient model with heat recovery in our Fabrication factory.
- ✓ Waste management improvement scheme (Reduce, Reuse, Recycle) - all onsite waste is collected by a trusted outside contractor and taken to their materials recovery facility for responsible sorting and reprocessing at specialist factories.

5.2 Future Carbon Reduction Initiatives

In the future we hope to implement further measures such as:

- ▶ Continuing the rollout of smart LEDs to reduce energy demand across our sites.
- ▶ Introducing on-site sustainable electricity generation (i.e. solar panels).
- ▶ Investigate alternative factory heating solutions.
- ▶ Implementing automatic engineering controls on air handling units for factory heating.
- ▶ Launch pilot to transition all diesel-powered company vehicles to electric for our after-sales market fleet.
- ▶ On-site or co-located generation of H₂ fuel via an electrolyser, powered by low/zero-emission electricity (subject to planning permission).

6. 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 standard¹ and uses the appropriate Government emission conversion factors for greenhouse gas company reporting².


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) Standard³.

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:

..... Bamford Bus Co Ltd t/a Wrightbus

Date signed: 19-5-26.



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Christian Reynolds
Managing Director
Bamford Bus Company Ltd. trading as Wrightbus

¹<https://ghgprotocol.org/corporate-standard>

²<https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

³<https://ghgprotocol.org/standards/scope-3-standard>





Appendix A – Scope 3 Calculation Methodology



The required subset of Scope 3 emissions has been reported in accordance with the published reporting standard for Carbon Reduction Plans and the Corporate Value Chain (Scope 3) Standard³.

Scope 3 Category	Name	Methodology
4	Upstream transportation & distribution	Spend based method
5	Waste generated in operations	Waste type specific method
6	Business travel	Mix of distance & spend based methods
7	Employee commuting	Average data method
9	Downstream transportation & distribution	Spend based method



Green Energy Certificate

Power NI certifies that

Bamford Bus Company Limited

is currently supplied with 100% Green Energy.
This business is powered by local, renewable electricity with zero carbon emissions sourced from renewable resources.

Valid Period

01/01/25 to 31/12/25

A handwritten signature in black ink, appearing to read "G. Sneddon".

Gary Sneddon

Key Account Manager, Power NI