

Carbon Reduction Plan.

Issued Aug 2024

Commitment to Achieving Net Zero

The Shepley Group are committed to achieving Net Zero emissions by 2040 for all Scope 1 and 2 emissions. Scope 3 emissions are in the process of being collated but will not form part of the carbon reduction plan.

Baseline Emissions Footprint

Baseline emissions are a record of the greenhouse gases that have been produced in the past and were produced prior to the introduction of any strategies to reduce emissions. Baseline emissions are the reference point against which emissions reduction can be measured.

The Shepley Group Baseline emission year was planned to be 2020 but due to covid and a lot of uncertainty in this year the new Baseline year is 2021 as these figures are the most consistent and feature true scenario data. The Shepley Group have been reporting their GHG emissions for 2020 / 2021 period but no emission reduction strategy in place. The figures that are demonstrated in this plan are the emissions that are produced converted into tonnes of carbon dioxide for ease of reference. No Scope 3 emissions data is recorded in the Baseline figures.

Baseline Year: 2021	
Additional Details relating to the Baseline Emissions Calculation	
<p>The baseline year that the Shepley Group have utilised gives a more realistic reflection of GHG emissions that are produced because of normal working practices. The Baseline year of 2021 also encountered organisational changes which resulted in an increased focus on collating the information.</p> <p style="text-align: center;">There was no scope 3 emission data collated.</p>	
Baseline Year Emissions: 2021	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	372.37t
Scope 2	64.81t
Scope 3	0

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Current Emissions Reporting

Reporting Year: 2023	
EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	246.446
Scope 2	84.736
Scope 3	0
Total Emissions	331.18t - (246.446t net)

Emission Reduction Targets

In order to continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets.

5 years (2024-2029)	Proposed tCO ₂ e saving
437.18 tCO₂e to 80.00 tCO₂e.(net) 80% decrease	
In 2023/2024 The removal of Kerosene from the West Cumberland site.	12.00 tCO ₂ e
2024 The proposed uptake of HVO fuel in the remaining fleet of vehicles will subsequently result in a further 90% reduction in vehicle emissions.	143.00 tCO ₂ e
Replacing dated inefficient vans for Electric vehicles (in areas where this will be a benefit) such as site vehicles when they are at the end of their economical life. Springfield site will initially receive 3 Electric vans which will replace the three older vehicles.	5.00 tCO ₂ e
10 years (2029-2034)	Proposed tCO ₂ e saving
80.00tCO₂e to 55.00 tCO₂e.(net) 31% decrease	
Second cycle of EV replacement vehicles for further enhancements to the Shepley fleet and replacement of dated vehicles.	5.00 tCO ₂ e
Renewable Energy replacement on sites where applicable such as West Cumberland Engineering– Solar Panels proposal.	11.00 tCO ₂ e
Energy reduction will form an integral part of the day-to-day requirements of the Shepley Group with some proposed energy saving enhancement projects such as Lamp replacement projects at Sheffield which will reduce emissions.	10.00 tCO ₂ e
15 years (2034-2039)	Proposed tCO ₂ e saving
55.00tCO₂e to Net Zero	
Solar panel installation project at the Sheffield site which will reduce our overall carbon emissions that are produced from electricity use.	55.00tCO ₂ e - 104.00tCO ₂ e

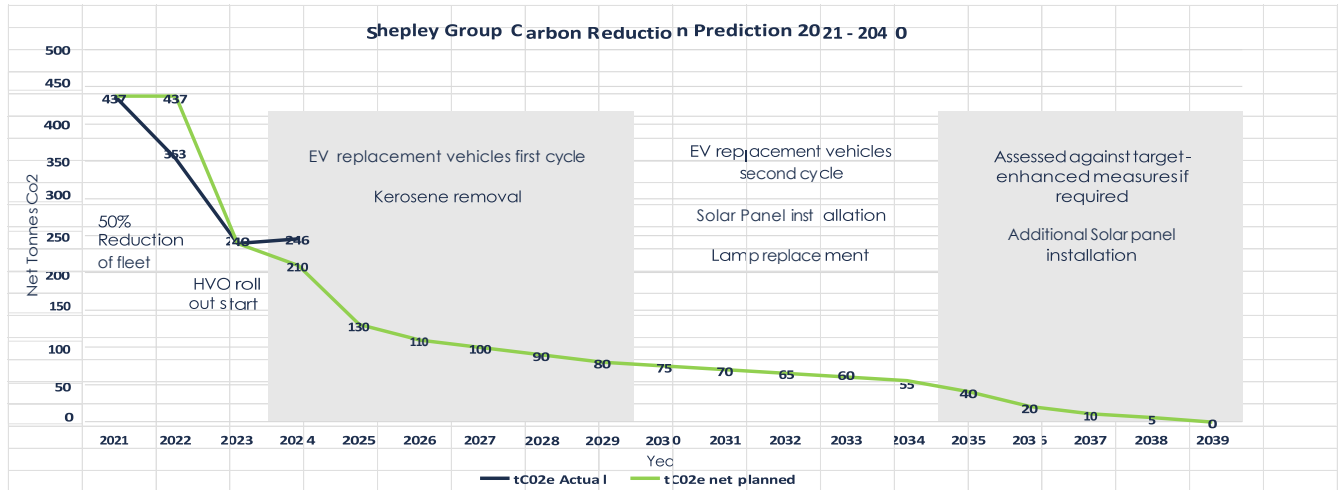
Offsetting does not feature as part of this Carbon reduction plan however close monitoring at this point will ensure that such projects are not required.

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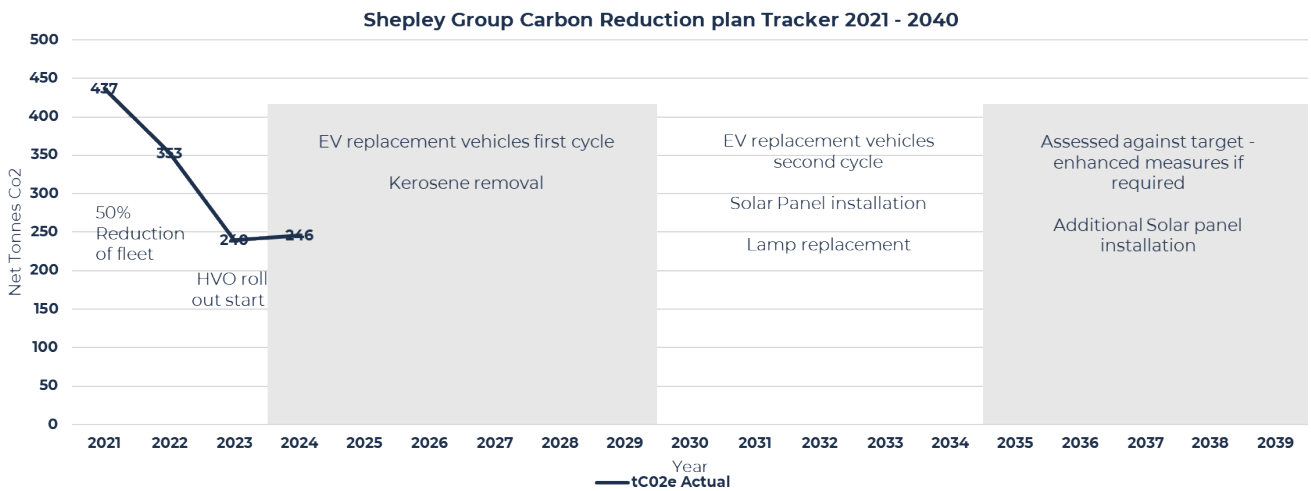
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Progress against these targets can be found below:



Carbon Tracker

NB: Below demonstrates the Shepley Group current position compared to the proposed plan and an explanation from each year.



2022 - Mid term of the fleet reduction program – on track with plan

2023 – Completion of fleet reduction program, Removal of Kerosene completed, LED light replacement at Sheffield completed – on track with plan

2024 – Delay in HVO roll out due to logistical and contractual issues- deviation from plan however a 2024 implementation will re-align to the proposed plan.

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Completed Carbon Reduction Projects

The following environmental management measures and projects have been completed or implemented since the 2021 baseline. The carbon emission reduction already achieved by these schemes equate to **188.00 tCO₂e**, a **43% reduction** against the 2021 baseline and the measures will be in effect when performing the project.

- In 2021/2022 the fleet of vehicles were halved when combined with some effective route planning and multi-person vehicles being introduced - resulted in a 40% reduction in fuel emissions from **262.46tCO₂e to 159.4tCO₂e**
- In 2022 the Electricity supplies were re-signed onto Renewable Energy tariffs which resulted in a saving of **85.00 tCO₂e**
- In 2022/2023 the Barrow in Furness PPS office changed all the standard lighting for LED versions and associated PIRs to further prevent excessive electric usage. The normal space heaters that were installed were also replaced for Rointe type radiators that are much more efficient. These energy saving projects have a combined projected saving of **6.6 tCO₂e**

Future Carbon Reduction Projects

In the future we hope to implement further measures which are listed in the specified targets.

- The removal of Kerosene from the West Cumberland site will effectively reduce our carbon emissions from the Baseline year and removes an unreliable and inefficient system. **Update: This has now been completed – and alternative natural Gas supply installed.**
- The replacement of conventional white Diesel in the fleet of vehicles for proposed HVO fuel in the remaining fleet of vehicles will subsequently result in a further 90% reduction in vehicle emissions.
- Replacing dated inefficient vans for Electric vehicles (on areas where this will be a benefit) such as site vehicles when they are at the end of their economic life. Springfield site will initially receive 3 Electric vans which will replace the three older vehicles. This will continue to be an emission reduction incentive for the Shepley Group for the future - replacing the older vehicles, until such a time when the EV charging infrastructure becomes more prevalent and available. **Update: 2 EVs introduced to Springfield.**
- Renewable Energy replacement on sites where applicable such as West Cumberland Engineering and Sheffield -being the instalment of Solar Panels on roof areas.
- Proposed energy saving enhancement projects such as Lamp replacement projects at Sheffield which will dramatically reduce emissions. **Update: First stage of LED light replacement applied to Sheffield workshop areas.**
- The introduction of energy saving measures such as print management software and LED replacements will help in the reduction of the carbon emissions indirectly through the reduction in the generation of electric.
- The Laser machines at the Barrow in Furness PPS office are to be replaced for more efficient Trotec machines which will also result in a predicted **79%** saving in energy usage.

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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 following best practice.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the GHG Reporting Protocol corporate standard and uses the appropriate Government emission conversion factors for greenhouse gas company reporting.

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements.

References: <https://www.carbontrust.com/our-work-and-impact/guides-reports-and-tools/briefing-what-are-scope-3-emissions>

Definitions:

- (GHG) = Greenhouse Gasses.
- (tCO₂e) = "tonnes of carbon dioxide equivalent," eg; all GHG emissions together in the same measurement.
- (Net Zero) = the balance between the amount of greenhouse gas that's produced and the amount that's removed from the atmosphere.

This Carbon Reduction Plan has been reviewed and approved by the Managing Director of the Shepley Group.

Sign



Date 21/08/2024

Next Review Date Aug 2025

<https://ghgprotocol.org/corporate-standard>
<https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting>

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