

Carbon Reduction Plan

Introduction

At Flannery Plant Hire, addressing the climate emergency is at the forefront of our carbon reduction plan, reflecting our unwavering dedication to sustainable practices.

We are committed to not only reducing and optimising our resource use but also ensuring that our efforts contribute positively to people and communities.

Through our strategic initiatives, we aim to deliver environmental net gain, reinforcing our role as leaders in fostering a resilient and sustainable future.

This plan sets forth our proactive approach to minimise our carbon footprint, aligning with national environmental goals and enhancing the well-being of the ecosystems and communities we serve.

Commitment to achieving Net Zero

Flannery Plant Hire is committed to achieving:

- 42% reduction for Scope 1 & 2 emissions by 2030
- Net Zero for Scope 1 & 2 emissions by 2040
- Net Zero for Scope 1, 2 & 3 emissions by 2050

Flannery acknowledges that different sectors and clients have different demands and targets to decarbonise and is committed to support every client to achieve Net Zero even if the targets are before 2040 or 2050.

Baseline Emissions Footprint

Flannery Plant Hire environmental sustainability performance is managed by operating certified management systems and is embedded in its operation leadership team structure, SHEQ.

Doing this, has enabled Flannery to integrate environmental performance data to drive efficiencies and be compliant to legislative requirements such as the energy saving opportunity scheme (ESOS) as well as the streamline energy and carbon reporting (SECR).

This integrated approach provides consistency throughout its operations and reporting requirements.

The baseline was first calculated in 2022 however this did not account for all Scope 3 emissions due to data available, however since then, Flannery Plant Hire have established the reporting requirements necessary to accurately report against all the scope 1, 2 and 3 required in the Carbon Reduction Plan PPN 06/21

This Carbon Reduction Plan has been reviewed and its compliance verified by Kiro Tamer at [KEES](#).

Baseline Year: 2023	
Additional Details relating to the Baseline Emissions calculations. To calculate the emissions, Flannery Plant Hire used a combination of supplier and data directly from its procurement system. This data is then grouped against the relevant Greenhouse Gas Emission and the relevant carbon emissions have been calculated using industry available data such as the UK Government Carbon Conversion Factors.	
Baseline year emissions: 2023	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	4942
Scope 2	129
Scope 3	411 – this is inclusive of GHG Category 4, 5, & 9
Total Emissions	5481

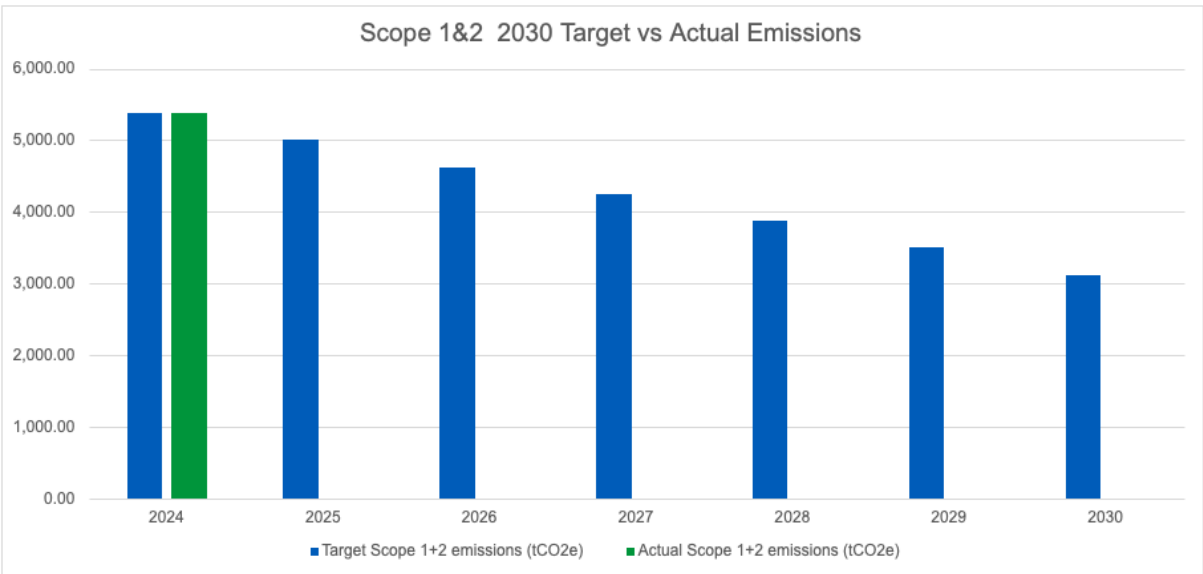
Current Emissions Reporting

Reporting Year: 2024 In 2024 Flannery further improved its reporting abilities, from reporting its staff commute to integrating its energy consumption as part of its Energy Management System. The increased volumes of emissions are a combination of an increase in the size of HGVs to deliver clients machines and an improvement in data capture and accuracy.	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	5228
Scope 2	155
Scope 3	686 - this is inclusive of GHG Category 4, 5, 6, 7 & 9
Total Emissions	6069

Emissions reduction targets

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

We project that carbon emissions will decrease over the next five years to 3867tCO₂e by 2030
This is a reduction of 42%.



Carbon Reduction Projects

Completed Carbon Reduction Initiatives - 2024

- ESOS, ISO 14001 & 50001
- Element 1 diesel reduction project- converting x2 CAT 320 20T excavators to run with a blend of diesel and hydrogen. By substituting diesel with hydrogen, the trials showing up to a 14% reduction in diesel/HVO usage along with carbon reductions. This a government funded project (DESNZ) led by BAM



<https://www.flanneryplanthire.com/innovations/flannery-plant-hire-element-one-hydrogen-and-the-red-diesel-replacement-programme/>

- JCB hydrogen internal combustion engine zero emission Backhoe Loader trials with Barhale at a Severn Trent project in Wolverhampton. We will be adding this model to the fleet in 2025



<https://www.flanneryplanthire.com/news/item/flannery-barhale-jcb-hydrogen-backhoe-loader/>

- Liugong 922FE 22T battery electric zero emission excavator - the first 22T electric excavator working on a UK site. This working on the HS2 project with SCS JV at Euston, with the machine working up to 10 hours on a single charge. Net zero solution, up to 6 db(a) measured external noise reduction and lower vibrations



- Bomag BW120e battery electric zero emission roller added to the fleet



<https://www.flanneryplanthire.com/news/item/the-uks-first-fully-electric-bomag-bw-120-e-5/>

- Hydrema DT6 zero emission Articulated Dump Truck added to the fleet



<https://www.flanneryplanthire.com/news/item/uks-first-fully-electirc-adt/>

- Sales team all converted into electric cars
- Accredited, recognised ECO Operator training programme continues to reduce fuel usage and carbon impact for our customers. Example on one section of HS2 project where machine engine idling reduced across 18 machines from 42% to 16%. Even in the colder winter months an average of 21% idling is still maintained, vastly reducing fuel usage and carbon footprint
- Mercedez Electric van added to the fleet
- HGV Scania fleet, MPG improvement from 6.3 to 6.4 (+1.4%), idling reduced by 4%
- Variety of awards related to sustainability and carbon reduction e.g. SCS HS2 JV (awarded for Liugong 22T electric excavator success, Eco Operator training programme), BBV HS2 JV (Golden Newt Award - Eco Operator training and leading Behavioural Change), edie Net-Zero Award for Behavioural Change Campaign, Construction News Workforce Awards (Recruitment Initiative for our Skills Bootcamp in Plant Operations, Excellence in Learning & Development award for our Operator Skills Hub (OSH)



<https://www.flanneryplanthire.com/news/item/eco-operator-award-at-the-edie-net-zero-awards/>

<https://www.flanneryplanthire.com/news/item/environmental-sustainability-award/>

Targeted Carbon Reduction Initiatives – 2025

- Implement measures for the supply chain to report better data associated with their emissions to improve the quality of the Scope 3 emissions
- Ultimate Cell hydrogen on demand retrofit trials continue
- Toyota x10 hybrid pick-up trucks added to fleet
- Solar panels installed at new Manchester and Birmingham depot locations
- Smart Sockets installed at all depots - Newport depot trial initially
- Out of hours energy usage focus
- Electric vehicle charging time focus, utilising solar energy generated rather than grid
- Electric/hybrid vehicle new additions to fleet – 51% of cars to be fully electric and 11% to be hybrid
- Renault HGV electric trial
- FORS Gold has already been achieved for 7th consecutive year, maintaining FORS GOLD accreditation requires continuous investment in driver training, fuel efficiency and emissions reduction. Our approach includes - State-of-the-art vehicle technology, driver training programmes, Fuel efficiency and emission reduction initiatives to support sustainability

<https://www.flanneryplanthire.com/news/item/flannery-achieves-fors-gold-for-the-seventh-consecutive-year/>

Declaration and Sign Off

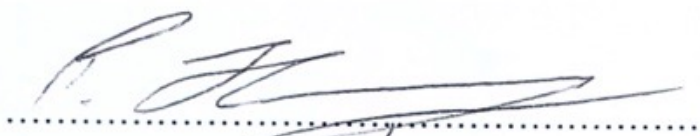
This Carbon Reduction Plan has been completed in accordance with PPN 06/21 and associated guidance and reporting standard for Carbon Reduction Plans.

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:



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Date: 16/05/2025