Carbon Reduction Plan

Supplier name: Taylor Woodrow Infrastructure Limited

Publication date: September 2023

Commitment to achieving Net Zero

Taylor Woodrow Infrastructure Limited is committed to achieving Net Zero emissions by 2050.

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.

Baseline Year: 2019	
Additional Details relating to the Baseline Emissions calculations: Our baseline year has been determined by our parent organisation. We utilise the Greenhouse Gas protocol and a financial control methodology to determine our scope 1 and 2 emissions. Actual emissions have been used to calculate these emissions.	
EMISSIONS	TOTAL (tCO_2e)
Scope 1	7,992
Scope 2	102
Total Emissions	8,094

Baseline Year: 2019	
Additional Details relating to the Baseline Emissions calculations: Our baseline year has been determined by our parent organisation. We utilise the Greenhouse Gas protocol and a financial control methodology to determine our scope 3 emissions. Actual and spend data has been used to calculate these emissions using direct primary data sources and secondary sources from our supply chain.	
EMISSIONS	TOTAL (tCO_2e)
Scope 3 (Included Sources)	5,695 (Category 4, 5, 6 and 7)
Total reported Emissions	13,789

Current Emissions Reporting

Reporting Year: 2022	
EMISSIONS	TOTAL (tCO2e)
Scope 1	7,948
Scope 2 Total Emissions	186 8,134
Scope 3 (Included Sources)	4,347 (Category 4, 5, 6 and 7)
Total Emissions	12,481

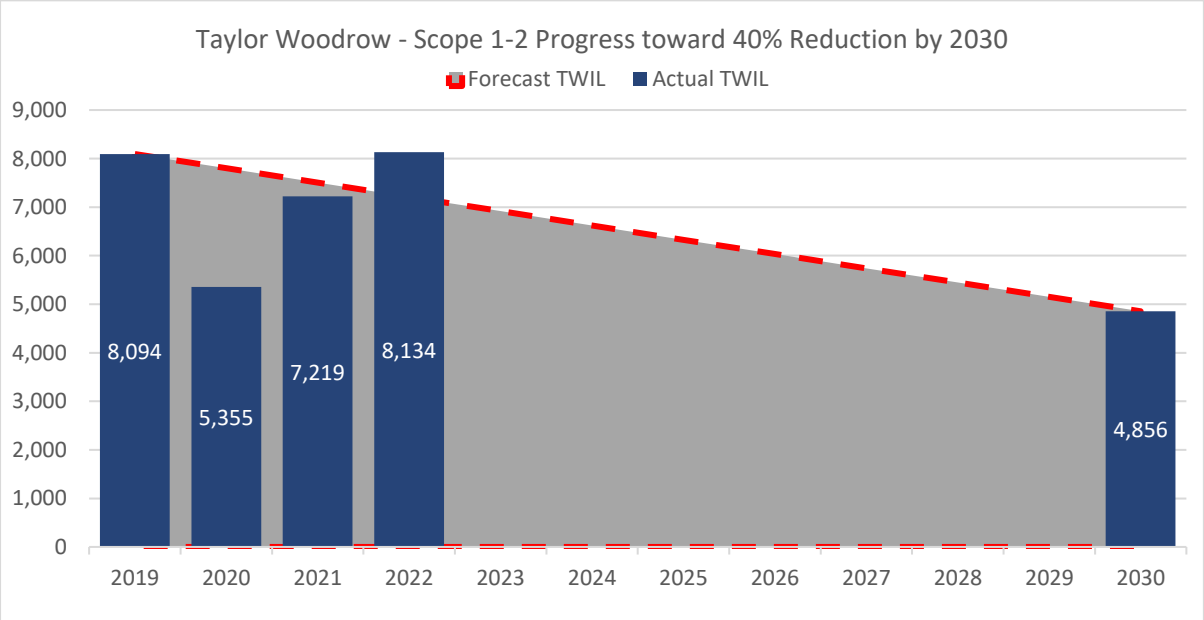
Emissions Reduction Targets

To continue our progress to achieving Net Zero, we have adopted the following carbon reduction targets:

I. A long-term science-based target to reach net-zero value chain GHGs emissions by no later than 2050
II. A reduction in Scope 1 and 2 emissions by at least 40% by 2030 (based on a 2019 baseline)
III. A reduction in Scope 3 emissions by at least 20% (based on a 2019 baseline)
IV. Interim science-based targets across all relevant scopes and in line with the criteria and recommendations of the Science Based Targets initiative

In 2022, our Scope 1 & 2 emissions slightly increased from our 2019 baseline which is related to the shift in scope of works and activities that have contributed to higher consumption of fuels, whilst an increase demand of electricity has come from the shift to electric vehicles. With future initiatives focusing on the decarbonisation of plant and fleet, we aim for our Scope 1 & 2 emissions to decrease over the next five years to 5,739 tCO2e in 2027 based on the trajectory from 2019.

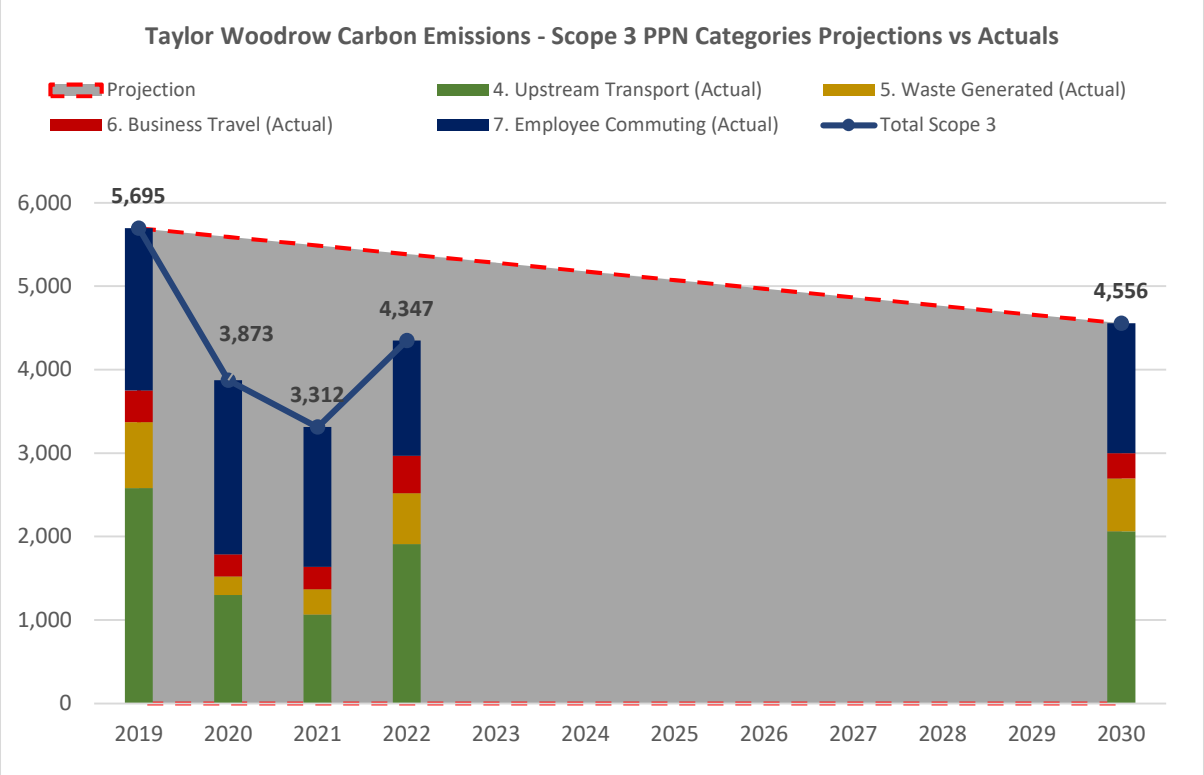
Progress against these targets can be seen in the graphs below showing tCO2e verses year:



Our methodology for calculating Scope 3 emissions is continually developing to deal with the complexity and variability of the data we find in our systems and our supply chain partners. This includes our subcontractors who support the delivery of our services to the built environment and where the improvement of Scope 3 reporting will need to be focused on. With increasing collaboration with our supply chain and advancement in our digital and reporting tools, we anticipate our Scope 3 emissions will become clear and more insightful with the maturity of our management systems.

Scope 3 emissions have decreased by 24% in 2022 from our baseline, due to several factors. This is seen within Employee Commuting from the consideration of electric vehicles and accurate commuting patterns we have accounted for based on a 2022 business wide travel survey. Further reductions were observed in our Business Travel emissions, which is assumed to have resulted from remote and flexible working and the reduced reliance of public transport and hotel services. However, increases are observed in our emissions for Waste in Operations & Transport of Procured Materials, due to improved calculation methodologies and better-informed data capture compared to 2019.

Progress against these targets can be seen in the graphs below showing tCO2e verses year:



Carbon Reduction Projects

The following environmental management measures and projects have been completed or implemented since the 2019 baseline. The carbon emission reduction achieved by these schemes equate to 1,578 tCO2e, a 11% reduction against the 2019 baseline (Scope 1, 2 & 3) and the measures will be in effect when performing the contract.

To date, Carbon Reduction Initiatives completed include a range of strategic and organisation actions that relate to:

- Development of Strategic Environmental Sustainability Roadmaps and Action Plans on Climate, Circular Economy, and Natural Environment
- Promote the use of alternative materials in our activities such as low carbon concrete, recycled steel, warm asphalt, recycled asphalt pavement and recycled aggregates, where our Clients permit these specifications to be adopted
- Continued transition of company cars and small commercial vehicles fleet from diesel to electric vehicles & the installation of charging stations at our permanent offices and larger sites
- Completed a trial of hydrogen use on a construction site to replace the need for a fossil fuel generator and will commence a larger trial hydrogen fuel cell generator trial for a larger site temporary office accommodation
- Continue to transition of small plant and hand powered tools, away from fossil fuel to electric
- Continued heatmapping of sustainability risk within the supply chain in accordance with ISO20400 for Sustainable Procurement
- Prioritise grid connections from renewable sources for all directly procured electricity
- Annual environmental campaign "VINCI Environmental Day" to increase environmental awareness across the business
- Analysis of carbon reduction strategies within the supply chain

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

- Developing PAS 2080 carbon management system to consider whole life cycle carbon from early design and throughout delivery stages
- Developing learning pathways and training requirements for employees and external supply chain through training partners and industry bodies
- Roll out of energy efficient cabins (A & B rated EPC) as preferred option for welfare site set ups
- Roll out sustainable solutions such as water harvesting, solar panels, and battery installations at main office and depot locations
- Promoting the VINCI Environmental Awards to encourage the submission of innovative and sustainable solutions that can be replicated for wider uptake

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:

Date: 26 September 2023

[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