Carbon Reduction Plan

Supplier name: Cummins Civil Engineering

Publication date: 16th October 2023

Commitment to achieving Net Zero

Cummins Civil Engineering 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: 2021
Additional Details relating to the Baseline Emissions calculations.
Baseline year 2021 measured historically in 2023.   The emissions calculations include all scope 1 and scope 2 emissions and all 5 of the required subsets of scope 3 emissions: • Business travel,   • Employee commuting,   • Waste generated in operations,   • Upstream transportation and distribution,   • Downstream transportation and distribution.   The calculation has also included additional scope 3 emissions as we recognise that it is important to account for a wider scope of emissions. Namely: • Purchased Goods and Services,   • Fuel and energy related activities not otherwise included in scope 1 and 2   • Upstream leased assets
Baseline year emissions:

EMISSIONS	TOTAL (tCO$_2$e)
Scope 1	97.48 Tonnes CO2e
Scope 2	2.88 Tonnes CO2e

Scope 3 (Included Sources)	470.79 Tonnes CO2e
Total Emissions	571.15 Tonnes CO2e

Current Emissions Reporting

Reporting Year: 2021	
EMISSIONS	**TOTAL (tCO_2e)**
Scope 1	97.48 Tonnes CO2e
Scope 2	2.88 Tonnes CO2e
Scope 3 (Included Sources)	470.79 Tonnes CO2e
Total Emissions	571.15 Tonnes CO2e

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 **456.92 tCO_2e** by **2028**. This is a reduction of **20%**.

Carbon Reduction Projects

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

1. **Equipment & Machinery**

- Efficient Machinery: Ensure all machinery is regularly serviced and maintained for optimal efficiency. Use equipment that meets the latest emission standards.
- Electric Equipment: Invest in electric or hybrid construction equipment where viable. These can range from mini excavators to heavy machinery depending on the availability and feasibility.

- Idle Reduction: Train operators to minimise idling time of machinery, implementing auto shut-off systems if possible.
- Optimised Use: Use machinery scheduling to ensure that the least number of machines are used at any given time, thereby reducing emissions.

2. Construction Methods

- Alternative Materials: Explore the use of low-carbon or recycled materials in construction, like recycled aggregates or alternative cements.
- Pre-fabrication: Where possible, use pre-fabricated components to reduce onsite energy consumption and waste.
- Deep Excavation Techniques: Consider alternative, less carbon-intensive techniques for deep excavation and sheet piling, including techniques that require less machinery or shorter operation times.

3. Transport & Logistics

- Local Sourcing: Source materials locally to reduce transportation emissions.
- Fuel-efficient Vehicles: Ensure all transportation vehicles, from trucks to vans, are fuel-efficient or consider transitioning to electric models.
- Consolidated Deliveries: Plan deliveries to ensure that materials for multiple projects are transported together when possible, reducing the number of trips.

4. On-site Practices
- Renewable Energy: Use renewable energy sources, like solar panels, to power onsite operations, including lighting and temporary buildings.
- Waste Management: Implement robust waste sorting and recycling protocols on site, aiming for a circular economy approach where materials are reused or recycled.
- Water Management: Use sustainable water management practices, including rainwater harvesting and greywater recycling.

5. Employee Training & Engagement
- Sustainability Workshops: Offer regular training sessions for employees about sustainable construction practices and the importance of carbon reduction.
- Green Champions: Designate or hire environmental or sustainability officers to oversee and implement green initiatives.
- Feedback Mechanisms: Set up a feedback system where employees can provide insights and suggestions for more sustainable practices.

6. Emergency Response Protocol
- Rapid Deployment: For emergency deep excavation responses, ensure a rapid deployment strategy that minimises transportation and machinery use.
- Preparedness: Regular drills and simulations can ensure the efficiency of emergency response, reducing the carbon footprint by cutting down on unnecessary procedures or delays.

7. Continuous Monitoring & Improvement

- Carbon Auditing: Regularly assess the company's carbon footprint, identifying areas for improvement.
- Technology Integration: Stay updated with the latest sustainable construction technologies and methods, integrating them into practices when viable.
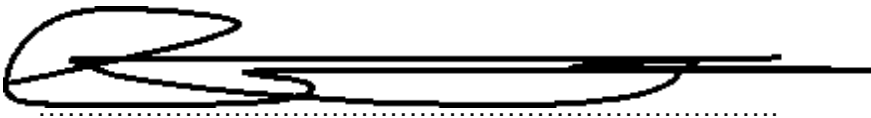
Declaration and Sign Off

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 standard[1] and uses the appropriate Government emission conversion factors for greenhouse gas company reporting[2].

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) Standard[3].

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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Name: Philomena Southcott

Date: 26/10/2023

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[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