

thomas sinden

# Carbon Reduction Plan

2022/23

Published 01/10/2023

**Supplier name: Thomas Sinden Ltd.**

**Publication date: 10 October 2023**

This Carbon Reduction Plan captures the operations of Thomas Sinden Ltd.

## Commitment to Net Zero

Thomas Sinden has committed to achieving:

- Net Zero carbon across our Scope 1 and 2 operations by 2035
- Net Zero carbon emissions across all activities including Scope 3 by 2040

As a construction business operating in the UK, we acknowledge that our own activities contribute to global climate change. We are committed to reducing our environmental impacts in line with the commitments made by the UK government which align with the global commitments of the IPCC.

Following this establishment of an accurate baseline in 2022/23, the business will set near-term science based targets for reductions of Scope 1, 2, and 3 emissions.

## 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.

Thomas Sinden's baseline emissions have been re-calculated in 2022/23 based on considerable progress made in implementing accurate measurement systems for all Scope 1 and 2 sources, and a much greater range of Scope 3 sources than was previously achievable. This has increased the scope of our reporting to a significant enough extent to justify a re-calculation from the existing 2021/22 baseline. This is in agreement with the business's declared intentions to re-baseline in our 2021/22 reporting statement.

The methodology for all emissions calculations is available upon request and follows the principals set out by the Greenhouse Gas Protocol and associated construction-focussed ENCORD protocol. UK emissions factors published by the government have been used throughout unless otherwise specified directly by a supplier or service provider.

**Baseline Year: 2022/23**

The scope of our carbon emissions reporting is shown below:

**Scope 1**

- Fuel purchased and combusted in plant and equipment on project sites
- Fuel purchased and combusted in plant and equipment on company premises
- Fugitive emissions from air-conditioning systems and any other equipment
- Fuel purchased and combusted in all company owned or operated vehicles

**Scope 2**

- Purchased electricity used on project sites
- Purchased electricity used on company premises
- Purchased electricity used in company owned or operated electric vehicles

**Scope 3**

- Well to Tank upstream emissions of all project and premises combusted fuels
- Third party (client) purchased electricity used on project sites
- Upstream transport and distribution of project and premises purchased electricity
- Fuel combusted in employee owned vehicles for commuting
- Fuel combusted in employee owned vehicles for business travel
- Fuel /electricity used in public transport for employee commuting or business travel
- Fuel combusted in subcontractor-owned plant and equipment on project sites
- Emissions from waste transport and disposal from projects and premises
- Transport of all purchased materials to project sites and premises

Not in scope items:

- ✗ Extraction and manufacture of purchased capital goods and materials - *Thomas Sinden intends to set a target for measurement and reduction of upfront 'Embodied carbon' (A1-A3) for future emissions reporting*
- ✗ All downstream product emissions - *Not applicable to operational scope.*

## Baseline Year: 2022/23

Emission Source	Total (Tonnes CO2e)
<b>Scope 1 (total)</b>	<b>102.73</b>
▪ Fuel - project	19.8
▪ Fuel - premises	0
▪ Fuel - company owned vehicles	82.93
▪ Processes / Fugitive	0
<b>Scope 2 (total)</b>	<b>37.65</b>
▪ Electricity - project*	37.65
▪ Electricity - premises	0
▪ Electricity - company owned EVs	0
<b>Scope 3 (total)</b>	<b>1877.95</b>
▪ Fuel (upstream) - project	25.25
▪ Fuel (upstream) - premises	0
▪ Electricity - project 3rd party purchased	8.06
▪ Electricity (upstream) - project	3.41
▪ Electricity (upstream) - premises	0
▪ Employee commuting (directly employed)	272.97
▪ Employee commuting (subcontractors)	1194
▪ Employee business travel	49.05
▪ Public transport (commuting & business travel)	3.4
▪ Subcontractor project fuel	8.36
▪ Waste disposal	15.46
▪ Waste transport	32.48
▪ Materials / purchased goods transport	265.51
<b>Total Reported Emissions</b>	<b>2018.33</b>

\*Scope 2 emissions of project electricity supply are from a combination of known location-based emission factors and UK general market-based emission factors

## Reporting Year: 2022/23

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### Emission Reduction Targets

Based on our Net Zero target years of 2035 for our Scope 1 and 2 emissions, and 2040 for our Scope 3 emissions, the following reduction trajectories are required:

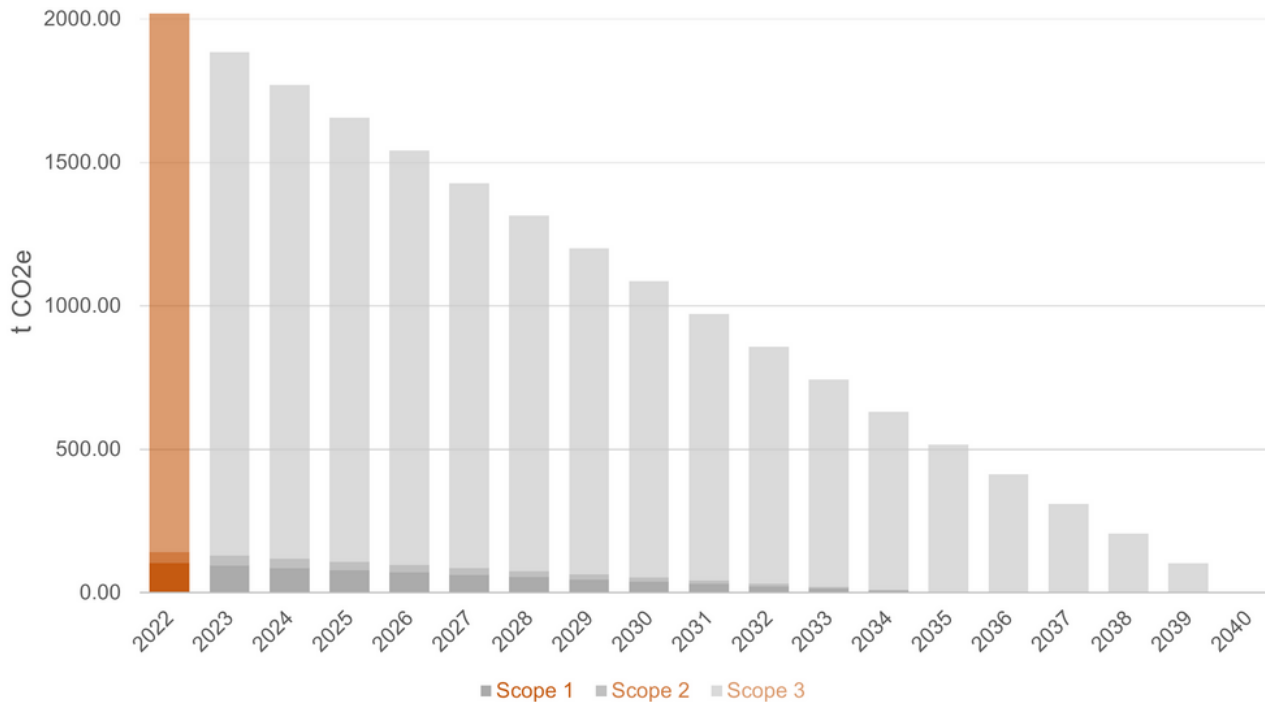


Figure 1: Carbon reduction projection by scope. Reporting year 2022/23

#### Five year targets (2027):

- Reduce total scope 1 and 2 emissions by 30% from the 2022 baseline
- Reduce total scope 3 emissions by 22% from the 2022 baseline
- Baseline the embodied carbon total of purchased and installed construction materials by 2027 reporting year

### Emission Reduction Projects

#### Completed Initiatives:

- Trial the use of HVO in all site preparation and investigation works
- Replace vehicles in staff vehicle fleet which now constitutes over 90% PHEVs
- Invest in high-efficiency welfare units on multiple sites to reduce energy use
- Provide early grid connections to sites to minimise generator use, and more commonly replace generators with battery powered plant and tools, or utilise a low emission alternative, compliant to the NRMM Stage V requirements
- Operate an ‘Agile Working’ policy to maximise the use of telecommuting technology to reduce travel associated emissions
- Maintain our ISO 14001 accredited Environmental Management System and complete a life-cycle assessment of all environmentally impactful operations to identify a strategy for prioritisation, training, and reduction.

## Future Initiatives:

- Implement a HVO only policy to exclude diesel from our own operations (Scope 1), and subsequently all subcontractors working on our behalf (Scope 3)
- Introduce EV charging points to our office premises
- Replace our small existing van fleet with EV and PHEV alternatives
- Source 100% UK-generated renewable energy on projects (within our control)
- Prioritise lower embodied carbon construction methods, and materials when making procurement and design decisions, using EPD data where available
- Train all staff in carbon literacy and improve site-level environmental awareness

## Improving our Data:

Following a successful improvement to the measurement of a majority of our Scope 1 and 2 emissions through the BRE SmartWaste tool, we have implemented this on all major projects. To further improve this data collection, wider training is planned to help capture possible 'missed emissions' during site survey works and smaller specialist contracts.

Reported Scope 3 data has a range of accuracy and, in places, is largely estimated based on only a single, or small number of template projects, which were then extrapolated to the whole company. Improvements in monitoring of workforce travel are proposed through wider use of a digital data system which integrates into company processes.

## 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 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, 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. 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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Steve McMahon

Operations Director | October 2023

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

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

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