

Appendix: Carbon Reduction Plan 2021/22

Supplier name: Thomas Sinden Ltd

Publication date: July 2022

Commitment to achieving Net Zero

Thomas Sinden is committed to achieving Net Zero emissions by 2040.

Estimated 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: 2021/22													
Additional Details relating to the Baseline Emissions calculations.													
This is an estimated baseline total for the financial year 2021/22 based on actual and estimated data. Due to the limitations with this data, processes for detailed actual data recording have been put in place for 2022/23 to calculate an accurate baseline from which future emissions totals will be reported against. This set of totals should serve as a temporary and indicative baseline.													
Baseline year emissions:													
EMISSIONS	TOTAL (tCO₂e)												
Scope 1	103.2												
Scope 2	633.3												
Scope 3 (Included Sources)	305.7												
	<table border="1"> <thead> <tr> <th>Scope 3 Category</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td>Upstream transportation and distribution</td> <td>50.8</td> </tr> <tr> <td>Waste Generated</td> <td>15.6</td> </tr> <tr> <td>Business Travel</td> <td>54.9</td> </tr> <tr> <td>Employee Commuting</td> <td>184.4</td> </tr> <tr> <td>Downstream transport and distribution</td> <td>0</td> </tr> </tbody> </table>	Scope 3 Category	Total	Upstream transportation and distribution	50.8	Waste Generated	15.6	Business Travel	54.9	Employee Commuting	184.4	Downstream transport and distribution	0
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	Waste Generated	15.6											
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Downstream transport and distribution	0												
Total Emissions	1042.2												

Current Emissions Reporting:

Current Reporting Year: 2021/22	
The current reporting year is also the baseline year. This is due to no previous baseline having been established prior to the current reporting year. See above emissions totals.	
Current year emissions:	
EMISSIONS	TOTAL (tCO₂e)
Scope 1	103.2
Scope 2	633.3

Scope 3 (Included Sources)	305.7	
	Scope 3 Category	Total
	Upstream transportation and distribution	50.8
	Waste Generated	15.6
	Business Travel	54.9
	Employee Commuting	184.4
	Downstream transport and distribution	0
Total Emissions	1042.2	

The UK Government GHG conversion factors have been used to calculate carbon dioxide equivalent emissions from company activity data. Our full methodology for calculating each Scope total is available on request and will be published in full alongside future emissions reporting using actual data that has been collected from our operations. This CRP should be read alongside our 'Net Zero Strategy' document which details our existing and planned emissions reduction initiatives and sets out our commitment to achieve Net Zero by 2040.

Carbon Reduction Initiatives

The following carbon reduction initiatives have been identified for future implementation:

- Utilise alternative fuels and reduce total use on our projects and in our supply chain
- Train our staff in carbon emissions and environmental impacts awareness
- Monitor and measure our carbon and resource use through our set KPIs
- Work with our supply chain and clients to reduce embodied carbon and procure sustainably
- Provide EV charging capability to our staff
- Install efficient lighting and heating in our premises and site facilities
- Purchase renewable energy tariffs for all sites
- Create embodied carbon baselines for materials used on sites
- Purchase of electric vehicles for our commercial fleet.

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:



Steve McMahon

Operations Director | July 2022

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>

Net Zero

Strategy

July 2022



thomas sinden



Reducing greenhouse gas emissions...

This document presents our plan for reducing Company greenhouse gas (GHG) emissions between 2022 and 2040, including an outline of our strategy to achieving net zero. It serves as a framework for future annual emissions reporting in line with Government Procurement Policy Note PPN06/21 for Carbon Reduction Plans.

Minimising operational impacts on the environment...

This net zero plan has been developed in accordance with the standards set out in the 'Greenhouse Gas Protocol - A Corporate Accounting and Reporting Standard' and the 'ENCORD Construction CO₂e Measurement Protocol' and is intended to inform our wider vision to minimise operational impacts on the environment and deliver sustainable principal contractor services within the UK construction sector. Our plan sets out how we will establish our baseline emissions, report future emissions, and develop measures to reduce our emissions total. This document can be used as evidence of equivalent compliance with the PAS 2050 carbon footprinting standard for our operations.

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Achieving net zero by 2040...

We understand the importance of achieving net zero before 2050 and are committed to reducing our environmental impacts including those resulting from greenhouse gas emissions.

Over the last century, human activities associated with the combustion of fossil fuels have caused significant and rapid increases in the atmospheric concentrations of greenhouse gasses (GHGs) including CO₂. Consequently, we are experiencing accelerating levels of climate change including a predicted rise in average global temperatures of at least 1.5°C from pre-industrial levels. This magnitude of environmental change has already, and will continue to have detrimental impacts on the eco-systems of the natural world and the quality of human life.

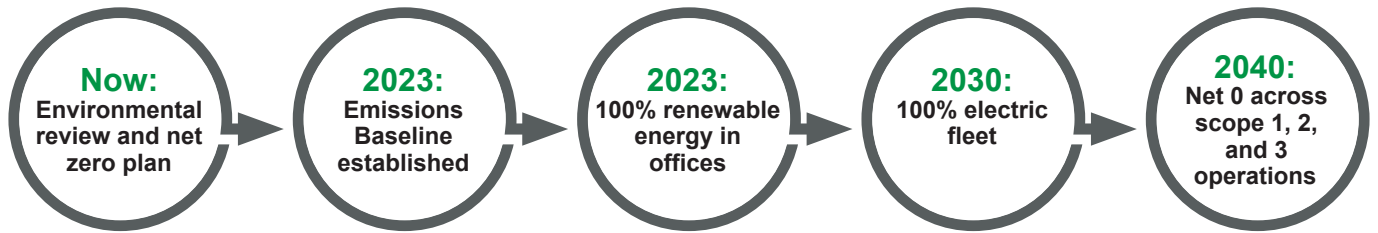
The built environment sector is estimated to constitute approximately 40% of the UK carbon footprint and contributes 11% of global CO₂ emissions¹. There is therefore a significant opportunity for operators in the UK construction industry to reduce their environmental impacts by eliminating GHG emissions associated with their operations. As a main contractor 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 IPCC².

¹ *The Net Zero Strategy* [Net Zero Strategy: Build Back Greener - GOV.UK (www.gov.uk)]

² *National Engineering Policy Centre* [decarbonising-construction-building-a-new-net-zero (raeng.org.uk)]

Our Commitment to Achieving Net Zero

We are committed to **achieving** net zero across all **Scope 1, 2, and 3** operations by **2040**. This will include direct and indirect emissions from all upstream and downstream activities considered to be within our operational boundaries.





Boundaries and

Summary of Operations

Thomas Sinden is a UK based main contractor carrying out a range of design, demolition, new build, refurbishment, and fit-out projects. Project values range from £0.1-£30m and are carried out on both a design & build and traditional basis.

We directly employ approximately 95 people and operate from premises located in Harold Wood, on the borders of North-East London and Essex. Our Harold Wood base is our sole permanently established premises, and includes an equipment storage facility in addition to our head office. All non-site-based employees operate out of this office or work from home. All site-based employees operate from their allocated project sites located across London and the South-East.

In accordance with the GHG Protocol 'control approach' for establishing organisational boundaries, we have reviewed all Company activities to establish where we hold operational control to define the limits of our responsibility for recording and reporting emissions.

Defining

Our Boundaries...

Scope of Emissions

Operational control

“Under the operational control approach, a Company accounts for 100% of emissions from operations over which it or one of its subsidiaries has operational control.”

– GHG Protocol¹

All GHG emissions from our operations have been determined to be direct or indirect:

Direct emissions

Emissions from sources that are owned or controlled by the Company.

Indirect emissions

Emissions that are a consequence of the activities of the Company but occur at sources owned or controlled by another Company/party.

These emissions are then categorised under **Scope 1, Scope 2, or Scope 3** emissions, defined overleaf.

¹ *The Greenhouse Gas Protocol - A Corporate Accounting and Reporting [Corporate Standard | Greenhouse Gas Protocol (ghgprotocol.org)]*

Scope 1, 2, and 3

Definitions...



Scope 1 Emissions

Direct GHG emissions that occur from sources that are owned or controlled by the Company.

Combustion in owned/controlled vehicles, boilers, furnaces.



Scope 2 Emissions

Indirect GHG emissions from the generation of purchased energy consumed by the Company.

Electricity purchased for Company offices.

Definitions:

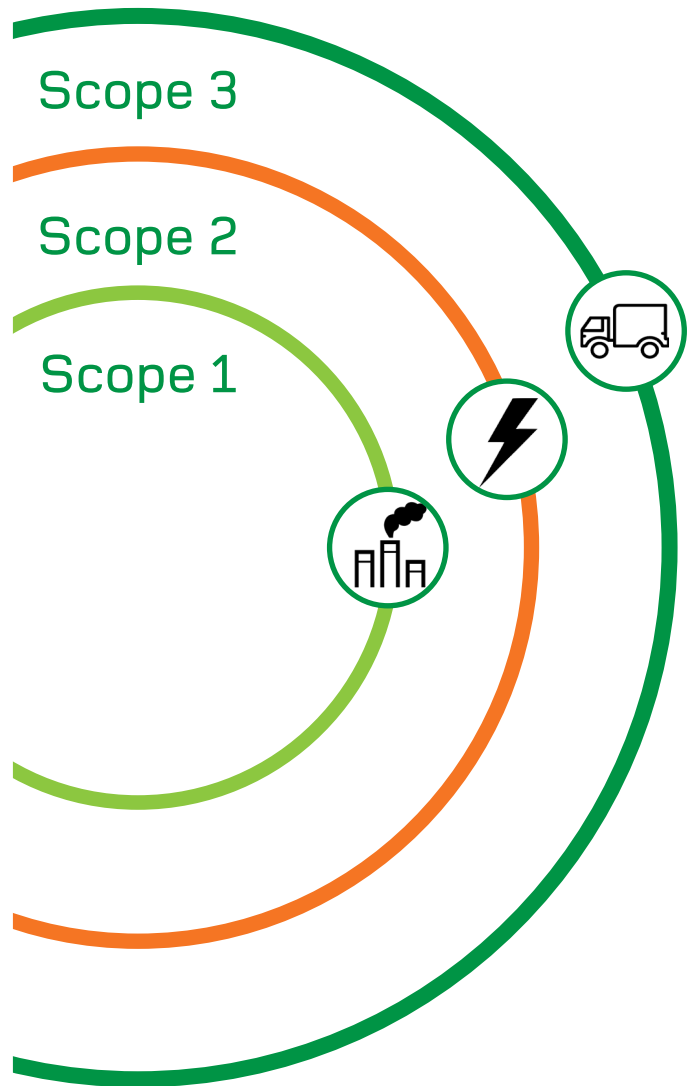
Examples:



Scope 3 Emissions

Alternative indirect emissions which can be generated throughout the Company's upstream and downstream activities.

Employee commuting and business travel, material transport, waste transport.



¹ ENCORD CO2e Measurement Protocol [CO2e – Encord]

The ENCORD standard

This table sets out the definition of source categories for each Scope as defined using the ENCORD standard¹.

Where **project** is specified, this refers to all activities occurring on construction sites and managed assets.

Where **premises** is specified, this refers to all activities at offices, warehouses, yards etc. occupied by the Company.

Categories considered not in the Company’s scope of operations are also detailed.

The following emissions sources are to be recorded and reported on by the Company under **Scope 1**.



Scope 1 Emissions

ENCORD Source Category	Description of Source Activities
1 Fuel project	All fuel ¹ purchased by the Company and combusted in stationary equipment on-site. <i>Example: boilers, furnaces, generators, power-tools</i>
2 Fuel premises	All fuel ¹ purchased by the Company and combusted in stationary equipment on-premises. <i>Example: boilers, furnaces, generators, power-tools</i>
3 Processes and Fugitive	Intentional and unintentional releases. <i>Example: equipment leaks from joints, seals, packing, gaskets</i> As well as fugitive emissions from equipment. <i>Example: air con and refrigeration</i>
7 Vehicle Fuel <i>Company owned fossil fuel</i>	Combustion of fuel ¹ in all Company owned/controlled vehicles. This includes all journeys in the Company fleet of commercial vehicles and all business travel in employee operated ‘Company cars’ which are owned/controlled by the Company.

¹ Fuel includes Gas oil / Diesel / Petrol / Fuel oil / Heating oil / Natural gas / LPG / CNG / Coal

Emissions

Sources...

The following emissions sources are to be recorded and reported on by the Company under **Scope 2**.



Scope 2 Emissions

ENCORD Source Category	Description of Source Activities
4 Electricity <i>project</i>	Generation of all electricity purchased by us used on projects, including within buildings on site and manufacturing processes on-site.
5 Electricity <i>premises</i>	Generation of all electricity purchased by us used at Company premises.
7 Vehicle Fuel <i>Company owned electric vehicle (EV)</i>	Generation of all electricity purchased by us and used in electric-powered Company vehicles.
Not in Scope	
6 Imported Heat	Generation of any heat/cooling/steam used on projects or at Company premises. Not within Company activities.

The following emissions sources will be recorded and reported on by the Company under **Scope 3**.



Scope 3 Emissions

ENCORD Source Category ¹	Description of Source Activities
1 (3a) Fuel <i>project</i>: Well to Tank	Extraction, production, and transportation (T&D) of all fuel purchased by TSL and combusted on projects, including on-site buildings and plant.
2 (3a) Fuel <i>premises</i> – Well to Tank	T&D of all fuel purchased by TSL combusted at Company premises.
4i (3) Electricity <i>project</i>: Third party purchased	Generation of electricity used by TSL on projects but purchased/supplied by a third party such as a client/landlord.
4ii (3b, 3c) Electricity <i>project</i> – Upstream	T&D of fuels consumed in the generation of electricity purchased by TSL used on projects. T&D losses to be reported separately.
5 (3b, 3c) Electricity <i>premises</i> – Upstream	T&D of fuels consumed in the generation of electricity purchased by TSL used on premises. T&D losses to be reported separately.
7i (6) Vehicle Fuel <i>employee owned</i> – commuting	Combustion of fuel in employee-owned vehicles used to commute to office or site from their permanent residency.
7ii (7) Vehicle Fuel <i>employee owned</i> – business travel	Combustion of fuel in all employee-owned vehicles used to travel for business purposes. <i>Example: office-site travel, conference travel, client meeting travel.</i>
8 (6, 7) Public Transport	Combustion of fuel or generation of electricity from employee business travel or commuting on public transport. Well to tank emissions to be included but a separate total reported also.
9i (3) Sub-contractors – Fuel <i>Project</i>	Direct emissions from combustion of fuel purchased by any TSL sub-contracted company whilst working on a project.
9ii (6) Sub-contractors – Vehicle Fuel	Direct emissions from all combustion of fuel in TSL sub-contracted company-owned vehicles used specifically for project travel.
10i (4, 5) Waste - Transport	Combustion of fuel for transport of all Company waste arising from projects and premises.
10ii (5) Waste - Disposal	Disposal routes of all Company waste arising from projects and premises.
11 i (2, 4) Materials - Transport	Transportation from factory to site/office of all capital goods and materials purchased by TSL.
11ii (2) Materials- Extraction and Manufacture	All cradle to gate emissions of capital goods and materials purchased by TSL.
Not in Scope	
12 (9-14) Product	Use of 'products' produced by the Company. <i>Example: buildings, roads.</i> No operational control beyond handover.

¹ Where applicable, the equivalent 'GHG Protocol corporate value chain' category number is given in brackets to align the two standards for Scope 3 reporting.

Out of Scope Activities

Sub-contractor electricity use:

Under our current operating process, all electricity used by sub-contractors on site is purchased by TSL or provided by the client. We therefore assume complete operational control in both circumstances and records all emissions from project electricity use *under 4 (TSL purchased) or 4i (Client purchased)*.

Sub-contractor public transport:

Public transport commuting to sites by sub-contractor personnel is regarded as Scope 3 under the sub-contractor's own reporting and therefore we will not report these emissions under our own Scope 3 sources to avoid double counting. This is similarly the case for all sub-contractor transport completed in private vehicles not owned/operated by the sub-contracted Company.

Sub-contractor waste:

Waste arising from sub-contractor activities which is directly dealt with and disposed of by the subcontractor is not reported as we do not have operational control. All other sub-contractor waste which is stored, sorted, and disposed of by TSL is included in scope.

Downstream activities and embodied carbon:

We do not have any operational control post-handover of projects and are therefore unable to report any Scope 3 emissions from downstream activities involving our projects. Any remediation or maintenance works falling outside of this rule will be treated as separate projects and will follow the normal emissions reporting process. Embodied carbon is currently difficult to calculate and is currently outside of the scope of what we are measuring, however, we are working with others in the industry to develop best practice in this area and are working towards being able to measure embodied carbon within our projects, as well as provide information to clients to inform them of the environmental impacts of the various options open to them when making decisions about their buildings.

Establishing our Baseline...

Baseline year:
1 April 2022 – 31 March 2023

We will establish an operating baseline of emissions for activities occurring during the financial year 1 April 2022 – 31 March 2023. This period has been chosen to ensure that accurate emissions recording processes are well integrated into the Company's operations from the beginning of the baseline monitoring period. At the time of this plan being published, historical emissions data was available for a limited number of activities. This data has not been used to provide a baseline for those specific emissions sources as this could undermine the relative benchmark for future overall emissions targets set by the Company. Additionally, emissions from the years immediately before 2022/23 would likely reflect the impacts of the Covid-19 pandemic on works undertaken between March 2020 and December 2021, and as such would not provide a representative baseline under 'normal' operating conditions.

For each emission source category scoped-in by this plan, the data sources to be used to establish baseline values are provided to the right. A full methodology of emissions calculations is being developed and will be included in future reporting documents to ensure transparency and credibility in the reporting process. Published emission factors will be used to convert to CO₂ equivalent emissions in all cases of indirect measurement.



Scope 1 Emissions

Purchased quantities of commercial fuels and vehicle fuels. Where vehicle fuel purchase quantities are not available, mileage recording will be used.



Emissions Data Sources



Scope 2 Emissions



Scope 3 Emissions

Data Sources:

Recorded metered electricity consumption from project sites and premises.

Activity data collected through various systems including supplier reporting, purchased quantities, mileage recording, sub-contractor reporting, client invoices.



Our annual emissions...

Reporting our Emissions

We will report on our annual emissions in accordance with the requirements set out for Carbon Reduction Plans in the Government Procurement Policy Note PPN 06/21.

Reports will be produced after the close of each financial year (March). Emissions reports will be made freely available to interested parties and will explain any limitations regarding data availability and recording accuracy. Reporting will include an overall summary of data from the year, broken down by scope, and will additionally present detailed data from each ENCORD category the Company has reported on.

Through reporting of additional activities, including the Tank-to-Well emissions from fuel and electricity consumption, we will exceed the minimum requirements for Scope 3 reporting as detailed by the ENCORD standard.

For the reporting year 2021/22, we have calculated estimated emissions totals which were derived from a combination of actual and approximated activity data. These emissions have been reported through the PPN 06/21 template, contained at the end of this document in the Appendix. This should be treated as an indicative baseline to be validated by our detailed 2022/23 emissions monitoring and reporting.

Verifying our Methods

We are undertaking detailed annual emissions reporting with the target of achieving independent verification of our data. This will be used to target certification through standard bodies, such as the Carbon Trust, which recognise leadership and success in year-on-year reductions in CO₂ emissions.

Carbon

Reduction Plans...

Setting our Targets

We will set ambitious and progressive targets for reducing emissions to achieve our net zero commitment.

We are committed to the following targets:

Net Zero Commitment

Achieve net zero emissions across all Scope 1, 2, and 3 operations by 2040.

All Electric Fleet

Operate an electric-only commercial vehicle fleet by 2030.

Renewable Energy Offices

Supply the Harold Wood office with 100% renewable energy by 2023.

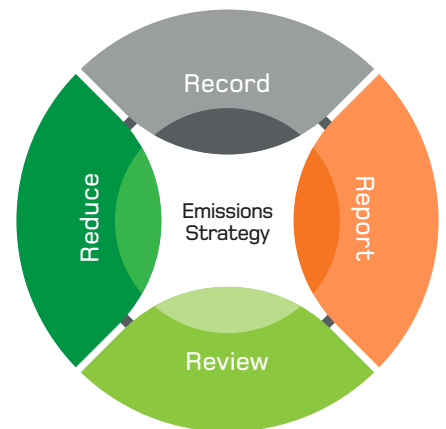
Additional targets will be set once our baseline emissions data is available and will reflect our priorities in reducing the most emitting activities within our operational scope. These targets will be reviewed and updated as we continuously develop our operational delivery methods to design out emissions in subsequent reporting years.

Achieving our

Targets...

Delivering our overall goal of net zero...

We will develop clearly defined strategies and implement effective initiatives to achieve each of our emissions targets and to deliver on our overall goal of net zero. We will implement a feedback and improvement loop to drive our emissions reduction activities and ensure our processes and plans are continuously evaluated and improved to maintain continuous progression towards net zero.



Existing Carbon Reduction Initiatives

ISO 14001 Certified EMS

We operate in accordance with our ISO 14001 certified environmental management system which identifies our environmental aspects and impacts, including sources of GHG emissions, and sets out a framework for continuous improvement through emissions reductions.



FORS Standard Commercial Vehicle Fleet

Our Company commercial vehicle fleet is registered to the FORS standard which certifies our vehicles against a set of criteria to ensure they are efficient, well maintained, and are driven responsibly, which helps drive down emissions from our vehicle fleet.

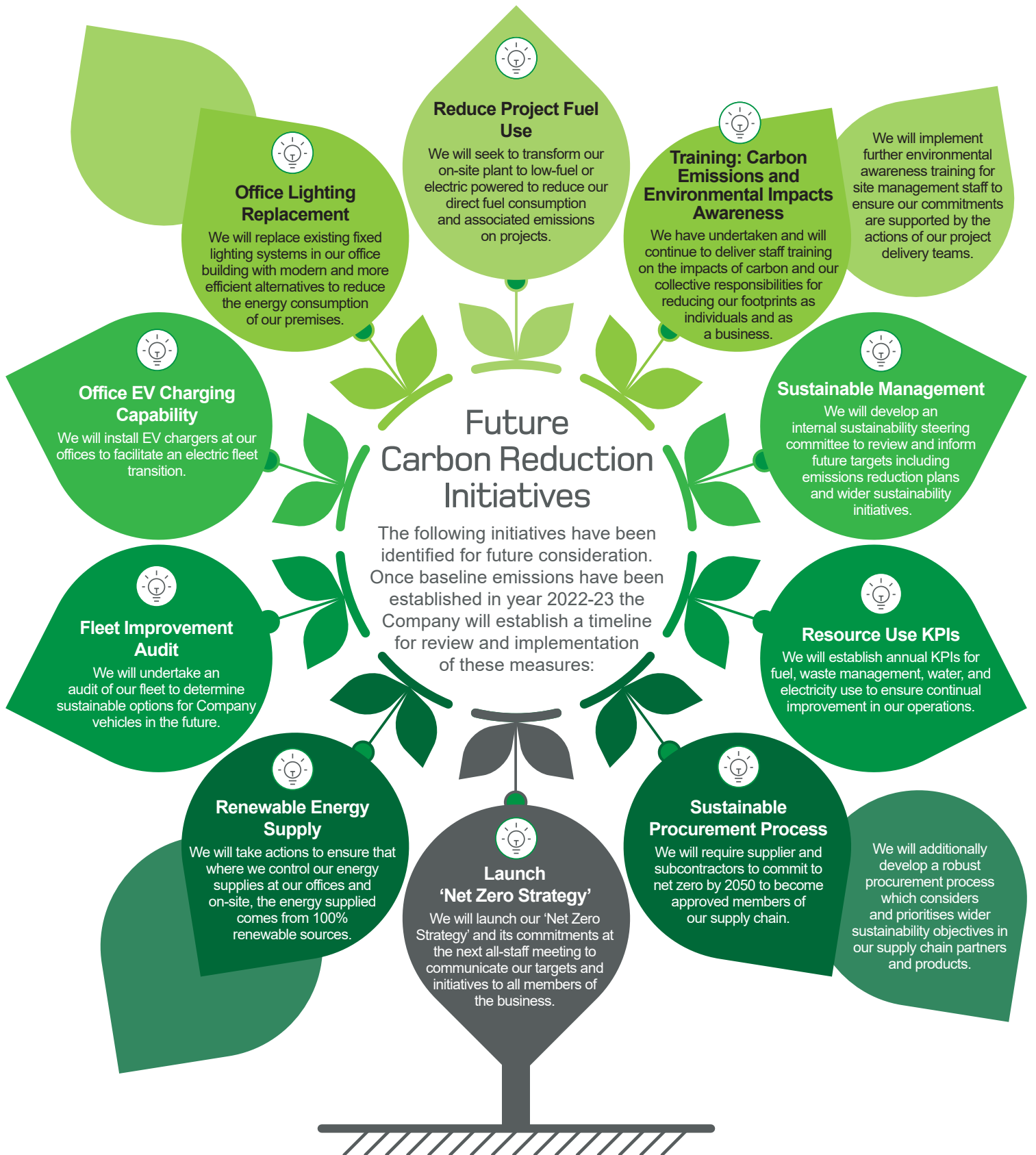
Our small commercial fleet of vans is majority hybrid engine powered, offering a lower carbon solution compared to diesel or petrol internal combustion engines.



SMARTwaste Tool

We have adopted the BRE SMARTwaste tool on projects across the Company. This system allows projects to digitally record, store, and analyse data regarding energy consumption, fuel use, and travel associated emissions from materials distribution and waste processing. This has enabled us to develop more accurate and reliable measurement procedures which will help us to establish a credible baseline for emissions.





Offsetting

We regard offsetting as a last step for achieving net zero and consequently, using offsets to achieve our targets early will not be prioritised over making real reductions in the carbon emissions we produce. We are committed to developing a Company offsetting policy which ensures that we invest in responsible schemes which operate within UK borders and that are independently certified and transparent in their actions.



Net Zero

Strategy



Declaration and sign-off

This plan establishes Thomas Sinden's commitment to achieving net zero emissions across our operations by 2040, and has been developed according to the principles set out in the 'Greenhouse Gas Protocol - A Corporate Accounting and Reporting Standard' and 'ENCORD Construction CO₂e Measurement Protocol'.

This plan commits Thomas Sinden to establish an accurate and transparent GHG emissions baseline which will be reported against annually in accordance with the requirements of the UK Government Procurement Policy Note PPN06/21 for Carbon Reduction Plans.

This plan has been reviewed and endorsed by the board of directors.

Steve McMahon
Operations Director

July 2022

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