

CARBON REDUCTION PLAN

Alcema Limited, Alcema Construction Limited and Alcema Fire Safety Limited are committed to achieving Net Zero greenhouse gas emissions across their UK operations by 2050 at the latest. We recognise our responsibility to minimise the environmental impact of our activities and will continually improve our environmental performance through sustainable construction practices, responsible procurement, efficient resource use and effective environmental management.

This Plan summarises the current organisational carbon position, the measures implemented since the baseline year and the actions being taken to improve the completeness and accuracy of future reporting. It is reviewed through Alcema's ISO 14001 Environmental Management System.

Reporting Boundary and Methodology

Organisational boundary: Alcema reports emissions from its UK operations using the operational control approach. The inventory includes emission sources over which the reporting organisations have authority to introduce and implement operating policies. Where a tender is submitted by a single Alcema legal entity, the applicability of this group-level Plan will be confirmed against the requirements of that procurement.

The emissions inventory has been prepared using the Greenhouse Gas Protocol Corporate Accounting and Reporting Standard and UK Government greenhouse gas conversion factors applicable to the relevant reporting year. Emissions are reported in tonnes of carbon dioxide equivalent (tCO₂e). The Plan has also been reviewed against Procurement Policy Note PPN 006 Taking account of Carbon Reduction Plans in the procurement of major government contracts and its associated Technical Standard.

Baseline Emissions Footprint

Baseline year: January to December 2022

The 2022 baseline is the first completed organisational greenhouse gas inventory available for the Alcema reporting group and is the reference point against which reductions are currently measured.

Electricity used on client-controlled construction sites is included in Scope 2 where Alcema purchases the electricity or has operational control over its use and reliable consumption data is available. Electricity purchased and controlled directly by a client falls outside Alcema's Scope 2 operational boundary. Where relevant data is unavailable, this is treated as a data limitation and improved consumption data will be sought from clients and project teams.

Emissions category	Baseline emissions tCO ₂ e
Scope 1	39.34
Scope 2	2.82
Scope 3 included in the 2022 dataset	24.52
Total emissions	66.68

Baseline limitation: The recorded 2022 Scope 3 total covered waste generated in operations, business travel and employee commuting. The source dataset did not separately quantify upstream transportation and distribution or downstream transportation and distribution. The baseline will be reviewed and, where material, recalculated when these categories have been assessed so that future comparisons use a consistent reporting boundary.

Emission Sources and Scope

Accounting area	Included emission sources and treatment
Scope 1	Natural gas used for space and water heating; fuel consumed by company-owned or company-controlled vehicles, vans and plant; and fuels purchased by Alcema for use on construction sites.
Scope 2	Purchased electricity for offices and construction sites where Alcema purchases or controls the electricity supply and reliable data is available.
Scope 3 Category 4	Upstream transportation and distribution. Applicable supplier, material, plant and other inbound logistics data will be developed for future inventories.

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Accounting area	Included emission sources and treatment
Scope 3 Category 5	Waste generated in operations, including disposal and treatment undertaken by third-party waste contractors.
Scope 3 Category 6	Business travel not included in Scope 1, including business mileage in employee-owned vehicles and other purchased travel where applicable.
Scope 3 Category 7	Employee commuting between home and normal workplaces or project locations, where not otherwise included.
Scope 3 Category 9	Downstream transportation and distribution. Applicability and materiality will be documented for each reporting period; for construction activities, goods are generally delivered to Alcema-controlled sites rather than distributed after sale.

Current Reporting Position

The organisation is completing its updated greenhouse gas inventory for the 2025 reporting year. Until it has been finalised and approved, the 2022 footprint remains the latest completed organisational dataset. Progress in this interim update is therefore reported through implemented measures and data-improvement actions rather than through an unverified current-year total.

The next full revision will report Scope 1 and Scope 2 emissions and the five Scope 3 categories required by PPN 006. It will state the calculation methodology, material estimates and exclusions, and an updated emissions intensity ratio. This interim Plan must not be represented as containing a completed current-year footprint until that work is approved.

Carbon Reduction Measures Implemented

- Replacement of office lighting with energy-efficient LED lighting.
- Procurement of renewable electricity tariffs where available.
- Installation of electric vehicle charging facilities at the Bourne End head office.
- Progressive transition of the company fleet towards electric and ultra-low-emission vehicles.
- Cloud-based document management and digital site management, inspection and reporting systems to reduce paper use and travel.
- Increased use of video conferencing, route planning and efficient scheduling to reduce unnecessary business travel.
- Use of Modern Methods of Construction where appropriate to project design, quality and programme requirements.
- Supply-chain engagement on local sourcing, lower-carbon materials and carbon reduction.
- Waste segregation and collaboration with waste-management partners to maximise reuse, recycling and diversion from landfill.

Carbon Reduction Objectives

- Complete and approve the updated organisational greenhouse gas inventory, including the five Scope 3 categories required by PPN 006.
- Improve capture of site fuel, electricity, logistics, waste, business-travel and employee-commuting data.
- Reduce Scope 1 emissions through fleet efficiency, vehicle electrification and efficient site operations.
- Reduce operational energy consumption and continue to procure renewable electricity where practicable.
- Maintain high levels of waste reuse, recycling and diversion from landfill, supported by project waste data.
- Increase consideration of lower-carbon materials, resource efficiency and Modern Methods of Construction where appropriate.
- Engage suppliers and subcontractors to improve logistics information and reduce embodied and operational carbon.
- Review carbon objectives and performance annually through the ISO 14001 Environmental Management System.

Alcema aims to reduce its absolute organisational greenhouse gas emissions by 30% against the 2022 baseline by 2030, on a like-for-like reporting boundary, while progressing towards Net Zero greenhouse gas emissions by 2050 at the latest. Performance will be monitored using absolute emissions and an intensity measure of tCO₂e per employee. The baseline will be recalculated where material changes to the organisational or reporting boundary would otherwise prevent meaningful comparison.

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Review Publication and Approval

This Carbon Reduction Plan has been reviewed against PPN 006 and the associated Technical Standard for Completion of Carbon Reduction Plans. Emissions data has been reported using the Greenhouse Gas Protocol Corporate Accounting and Reporting Standard and UK Government greenhouse gas conversion factors, subject to the baseline and current-year data limitations stated in this Plan.

The Plan will be reviewed annually and within six months of the organisation's financial year-end. Following approval, the current Plan will be published on Alcema's UK website, with previous versions retained where practicable to demonstrate progress over time.

Signed



Jason Spencer, MD, Alcema, Alcema Construction & Alcema Fire Safety Limited

Review Date: 16/08/2026

Next Review: 15/08/2027

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