Carbon Reduction Plan Template

Supplier name: Emico Ltd

Publication date: 15th January 2025

Commitment to achieving Net Zero

Emico is committed to achieving Net Zero emissions by 2045.

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.

This carbon reduction plan is the second which Emico has completed and will therefore act a comparison year to the baseline year (FY2021/22).

Baseline Year: FY21/22 July 2021 – June 2022
Baseline calculations were completed previously for scope 1 and 2 and have since been validated/recalculated below in alignment with the GHG Protocol. Relevant scope 3 categories have also been calculated and added to scope 1 and 2 calculations to provide a full PPN 06/21 aligned carbon reduction plan.
All required scopes have been included in calculations for base year 21-22. However, where we have been unable to retrieve primary data for waste, employee commuting, and homeworking, we have used secondary data sources to provide a carbon inventory baseline which is as representative of our emissions during the reporting period as possible.
Baseline year emissions: **Market-based emissions: 372 tCO$_2$e**   **Location-based emissions: 351 tCO$_2$e**   Not including Cat 1: Purchased Goods and Services which were also calculated and are shown below.

EMISSIONS	TOTAL (tCO$_2$e)
Scope 1	Total: 33 tCO$_2$e

	Emico offices are 100% powered by electricity and therefore do not produce any stationary combustion emissions. Scope 1 emissions are made up entirely of Transport emissions: Transport: 33 tCO$_2$e
Scope 2	Total: 38 tCO$_2$e Market-based: 38 tCO$_2$e Location-based: 17 tCO$_2$e
Scope 3 **(Included Sources)**	Total: 301 tCO$_2$e (Not including category 1: purchased goods and services. However, this has been included separately below) Cat 3 Fuel and Energy-related Activities: 14 tCO$_2$e Cat 4: Upstream transportation & distribution: 125 tCO$_2$e Cat 5: Waste: 0.1 tCO$_2$e Cat 6: Business Travel: 109 tCO$_2$e Cat 7: Commuting: 33 tCO$_2$e Cat 7: Working From Home: 20 tCO$_2$e *Cat 1: Purchased Goods and Services: 5,635 tCO$_2$e*
Total Emissions	Market-based emissions: 372 tCO$_2$e Location-based emissions: 351 tCO$_2$e *Totals do not include Cat 1: Purchased Goods and Services*

Current Emissions Reporting

Reporting Year: FY23/24 July 2023 – June 2024
Current emissions calculations were completed in alignment with the GHG Protocol. All relevant scope 1, 2 and 3 categories have also been calculated to provide a full PPN 06/21 aligned carbon reduction plan.
All required scopes have been included in calculations for reporting year 23-24. However, where we have been unable to retrieve primary data for employee commuting and homeworking, we have used secondary data sources to provide a carbon inventory baseline which is as representative of our emissions during the reporting period as possible.

| EMISSIONS	TOTAL (tCO$_2$e)
Scope 1	Total: 16 tCO$_2$e Emico offices are 100% powered by electricity and therefore do not produce any stationary combustion emissions. Scope 1 emissions are made up entirely of Transport emissions: Transport: 16 tCO$_2$e
Scope 2	Total: 26 tCO$_2$e Market-based: 26 tCO$_2$e Location-based: 12 tCO$_2$e
Scope 3 **(Included Sources)**	Total: 326 tCO$_2$e (Not including category 1: purchased goods and services. However, this has been included separately below) Cat 3 Fuel and Energy-related Activities: 8 tCO$_2$e Cat 4: Upstream transportation & distribution: 174 tCO$_2$e Cat 5: Waste: 0.1 tCO$_2$e Cat 6: Business Travel: 103 tCO$_2$e Cat 7: Commuting: 34 tCO$_2$e Cat 7: Working From Home: 8 tCO$_2$e *Cat 1: Purchased Goods and Services: 6,146 tCO$_2$e*
Total Emissions	Market-based emissions: 368 tCO$_2$e Location-based emissions: 353 tCO$_2$e *Totals do not include Cat 1: Purchased Goods and Services*

Note that emissions have reduced across most categories compared to our baseline year of 21-22. However, an increase of 49 tCO$_2$e in upstream transportation and distribution means that emissions are broadly in the same range as the baseline year. The increase in upstream transport emissions can be attributed to an increase in the distance travelled by suppliers as well as a 7% increase in the DEFRA emissions factor used to convert mileage to carbon emissions.
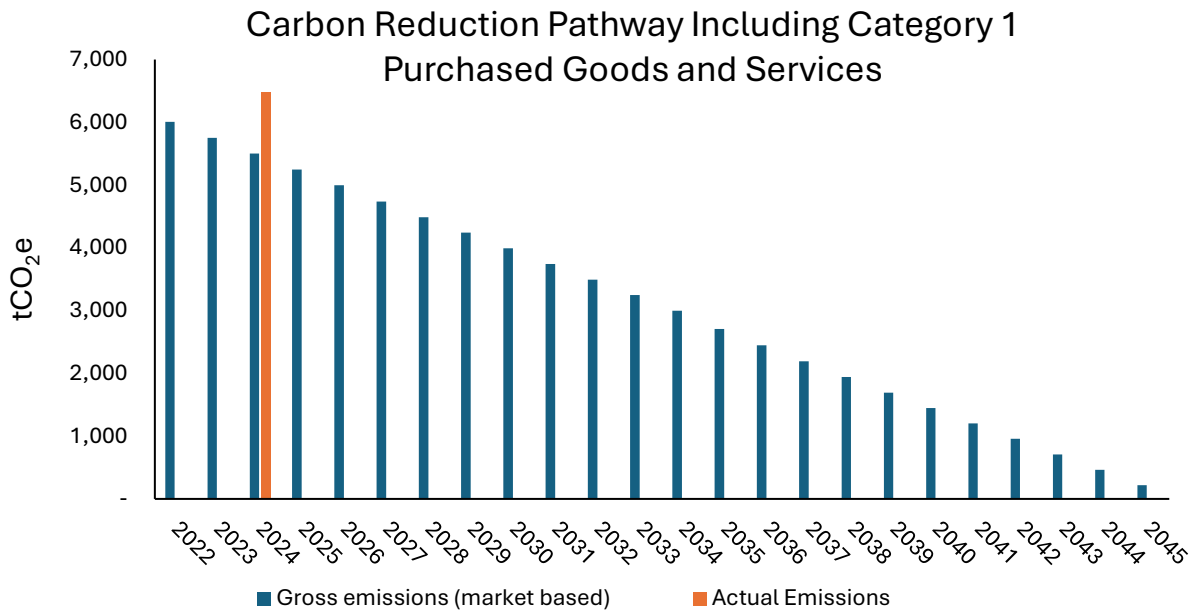
Emissions reduction targets

To continue our progress to achieving Net Zero, Emico have adopted the following carbon reduction targets for PPN 06/21 relevant categories – not including Category 1: Purchased Goods and Services:

- 13% reduction in absolute emissions by 2025 from 2022 baseline year. This is made up of reductions in the below groups of scopes:
  - Scope 1 and 2: 27%
  - Scope 3: 10%
- 33% reduction in absolute emissions by 2030 from 2022 baseline year. This is made up of reductions in the below groups of scopes:
  - Scope 1 and 2: 55%
  - Scope 3: 27%
- 61% reduction in absolute emissions by 2035 from 2022 baseline year. This is made up of reductions in the below groups of scopes:
  - Scope 1 and 2: 76%
  - Scope 3: 57%
- 80% reduction in absolute emissions by 2040 from 2022 baseline year. This is made up of reductions in the below groups of scopes:
  - Scope 1 and 2: 81%
  - Scope 3: 80%
- 92% reduction in absolute emissions by 2045 from 2022 baseline year. This is made up of reductions in the below groups of scopes:
  - Scope 1 and 2: 85%
  - Scope 3: 94%

The carbon reduction pathway can be seen in the graphs below, along with our progress against our targets:

Carbon Reduction Pathway Not Including Category 1 Purchased Goods and Services
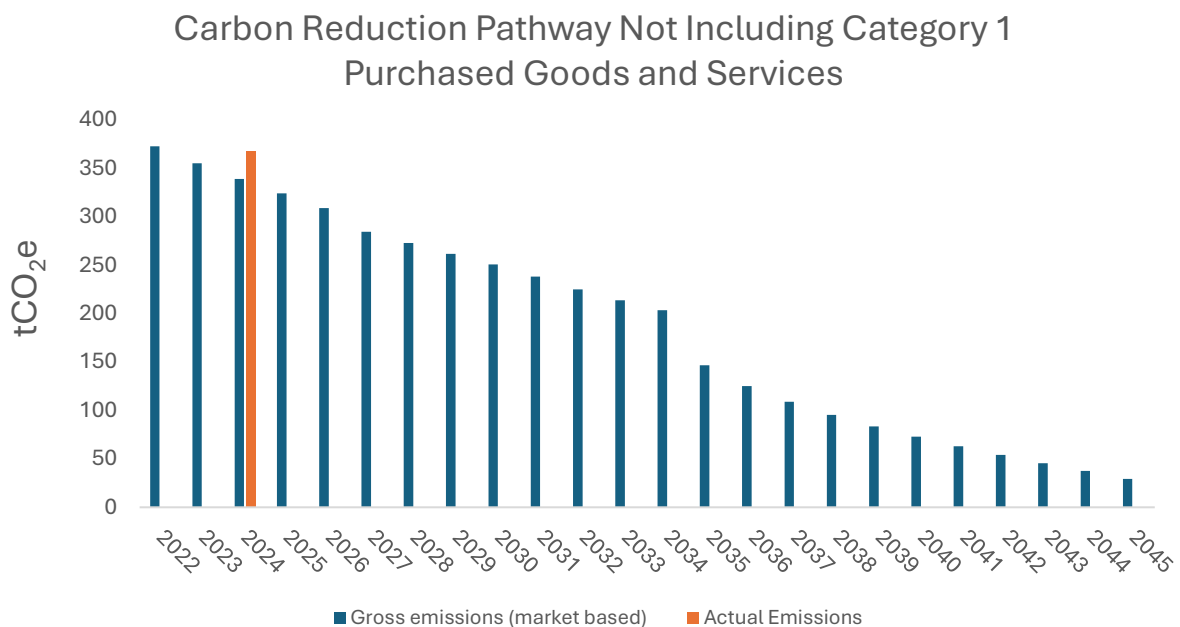
Category 1: Purchased Goods and Services emissions are not required to be included in our PPN 06/21 report. However, we have calculated and included them to illustrate our commitment to Net Zero across all relevant scopes and categories. Below is our carbon reduction pathway including emissions from purchased goods and services:

Carbon Reduction Pathway Including Category 1 Purchased Goods and Services

Emico acknowledge not being on course to meet annual carbon reduction targets but are confident that future initiatives will help to get back on course. However, we realise that there will be emissions that we cannot avoid. We therefore plan to utilise high quality, nature-based offsets to abate these emissions on our journey to Net Zero. The graph above shows the absolute emissions reduction that we plan to make.

Carbon Reduction Projects

Completed Carbon Reduction Initiatives

The following environmental management measures and projects have been completed or implemented over the last year. Emico have:

- Appointed an independent specialist ESG consultancy to calculate our Scope 1, 2 and 3 baseline.

- Calculated Scope 3 emissions, including purchased goods and services, for reporting period 2023-24 and base year 2021-22.

- Moved offices to a more efficient London HQ reducing carbon, improving thermal efficiency, providing LED lights with PIR motion detectors, taps with PIR sensors and a location near excellent public transport links.

- Moved our Hemel Hempstead Head Office to smaller and more energy efficient offices.

- Reduced our vehicle fleet reducing emissions

- Achieved a carbon emissions reduction of 42% for Scope 1 and 2 emissions for reporting period 2023-24 when compared to our 2021-22 baseline.

- Set a target to ban diesel associated with Scope 1 emissions across the company by 2027.

- Developed and implemented Project Carbon Reduction Plans for Scope 1, 2 and 3 emission baselining, reduction and measurement for organisations including TfL

In the future Emico intend to implement further measures such as:

- Sign industry Net Zero Pledges including the: 'Pledge to Net Zero', 'Contractors Declare' movement, and' BITCNI Climate Action Pledge' in 2024-25.

- Set SBTi targets in 2024-25

- Use >30% Hybrid/EV plant used on site in 2024-25

- E-Learning for Sustainability Awareness for Design Team and Site Teams. 100% completion of e-learning modules in 2024-25.

- Improve our Process for identifying site low whole life carbon options in 2024-25.

- All Projects >£5m have a Carbon Reduction Plan in 2024-25.

- All projects >£5m have lean design, lean construction, carbon VE exercise and carbon benchmarking. Supporting client designers and client teams with low carbon solutions and business cases in 2024-25.

- Offer ultra Early Contractor Involvement and ultra Early Supplier Involvement to input into: Client Value Model selection (helping clients to use Whole Life Carbon to prove Value for Money); Risk (carbon); Design (Lean and Carbon); P-DfMA, DfMA, and MMC; Buildability; Procurement and low carbon product selection; Logistics; Low Carbon Design and Construction methods; and VE exercises on Carbon in 2024-25.

- Promote sustainable design on all projects e.g. Fire Suppression Systems. 100% use of low GWP, no ODP suppression agents. Targeting a 20% reduction in water use for suppression, Low water use via water saving fixtures, grey water recovery, low-carbon and heat recovery HVAC systems, LED lighting, PIR, PV, insulation, air tightness, thermal mass, MMC in 2024-25.

- Buy local to reduce transport emissions (>60% local spend within 40 miles) in 2024-25.

- Use Green tariff REGO energy on all sites where we are able to select the tariff and pay the bill in 2024-25

- Develop and roll out an industry standard carbon reporting tool in 2024-25

- Enhance our supply chain management strategy in 2024-25

- Specify and procure products with high percentages of recycled content and high future circularity e.g. copper, steel, trunking where appropriate and compliant with client Technical Standards in 2024-25. Help clients to adjust their technical standards.

- Assess EU Digital Product Passports and EU Product Circularity Data Sheets which capture the product: origin, composition, repair and disassembly possibilities, including how the components can be recycled or disposed of at end of life

- Work with suppliers in 2024-25 to help them to understand that we will start procuring based on whole life carbon and GHG emissions and using this data and proof of

progress in our tender assessments in 2027/28 and set out what we require from them

- Move to better insulated London office with a better EPC rating in 2025-26

- Work with clients and the client teams to identify and approve new low carbon products with EPDs in 2025-26. Help clients to adjust their technical standards.

- Encourage manufacturers to provide low carbon products with EPDs (lifecycle carbon data) through procurement in 2025-26

- Specify and procure 40% products with re-usable packaging in 2025-26

- Specify and procure 15% reusable products (high future circularity) in 2025-26

- Enhance supply chain data collection using questionnaires and developing a report structure which feeds into overall ESG reports in 2025-26

- >95% site waste diverted from landfill in 2025-26

- >97% office waste diverted from landfill in 2025-26

- Phase out of diesel across scope 1 emissions by 2027 with 100% EV, PHEV, Hydrogen, HVO fleet.

- Collaborate with suppliers to recycle hard to recycle items e.g. PPE, EV batteries into home batteries for PV in 2026-27

- Co-develop markets for recovered site materials e.g. circular economy hubs with local councils and contractors in 2026-27

- Design more sustainable solutions for new projects, focusing on:
  - Lighting energy efficiency.
  - Mechanical Building Services (Low-Carbon HVAC Solutions).
  - Public Health and Plumbing Systems (Water Efficiency and Sustainable Water Use).
  - Fire Detection and Suppression Systems (Sustainable Design).

- 80% plant EU6, HVO, Hybrid/EV or Hydrogen by 2026-27

- Carbon audits on all projects >£15m by 2026-27

- PAS2080 Certification (managing whole life carbon in infrastructure) by 2027-28

- 90% plant HVO, Hydrogen or Hybrid/EV by 2030

- Require all products have EPDs by 2030

- NZC across our entire value chain by 2045

- Create case studies of ESG initiatives implemented on projects to share learning.
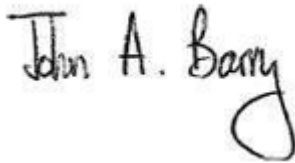
Declaration and Sign Off

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[4] and uses the appropriate Government emission conversion factors for greenhouse gas company reporting[5].

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[6].

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:

John A. Barry

Managing Director

Date: 15 January 2025

---

[4]https://ghgprotocol.org/corporate-standard
[5]https://www.gov.uk/government/collections/government-conversion-factors-for-company-reporting
[6]https://ghgprotocol.org/standards/scope-3-standard