

Carbon Reduction Plan template

Supplier name	Aerogen Limited
Publication date	30 October 2025

Commitment to achieving net zero

Aerogen is committed to achieving net zero emissions by 2043.

This also extends and applies to Aerogen’s wholly owned UK entity, Aerogen Lifesciences UK Ltd.

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: 2023

Additional details relating to the baseline emissions calculations:

2023 is the baseline year for carbon emissions. Prior to 2023, Scope 1 and 2 energy was reported in kWhr without conversion to carbon emissions.

Scope 1 & 2 Emissions for 2023 are calculated using SEAI Energy in Ireland emissions factors.

Baseline year emissions:

Emissions	Total (tCO2e)
Scope 1	162 tCO2e
Scope 1 emissions in 2023 were primarily from natural gas heating. The emissions source was discontinued in 2024.	
Scope 2	502 tCO2e
Our main electricity provider only generates renewable energy (onshore wind). As the electricity is delivered through the national grid, we use the national grid’s conversion factor for electricity emissions. 40.7% of Irish electricity generation came from renewables in 2023.	Emission factor: 254gCO ₂ /kWh Ref. SEAI Energy in Ireland 2024 Report

Scope 3

Scope 3 emissions for 2023 have been calculated using first hand data, e.g. from suppliers where available. Where emissions data was not available calculations have been made based on financial data in accordance with the Greenhouse Gas Protocol Scope 3 Standard.

- Purchased Goods and Services: 3,094
- Capital Goods: 39
- Downstream T & D: 76
- Upstream T&D: 54
- Waste Generated in Operations: 2
- Business Travel: 936
- Employee Commuting: 253
- Use of sold product: 14
- End of life treatment of sold product: 56



Total emissions

5,188 tCO2e

Current emissions reporting

Reporting year: 2024

Emissions	TOTAL (tCO ₂ e)
<p>Scope 1</p> <p>Reduction achieved by replacing natural gas heating with heat pump AC units. Remaining Scope 1 relates to inter-site internal logistics with a leased vehicle.</p>	43 tCO ₂ e
<p>Scope 2</p> <p>Production output in 2024 was 42% higher than 2023, yet Scope 2 emissions reduced by 19.5%, reflecting the positive effect of various carbon reduction initiatives completed over the 2023-24 period.</p> <p>39.6% of Irish electricity generation came from renewables in 2023.</p>	420 tCO ₂ e Based on 226.3gCO ₂ /kWh SEAI Energy in Ireland 2025 Report
<p>Scope 3</p> <p>Analysis of Scope 3 emissions has not been conducted for 2024. We will next analyse Scope 3 emissions in 2026 for FY 2025. In 2023 the following were the major contributors to Scope 3 emissions;</p> <ul style="list-style-type: none"> • Purchased goods & services 68% • Business Travel: 21% • Employee Commuting: 6% <p>An estimate of Scope 3 emissions is provided for 2024 based on 17% purchased materials growth, 16% employee growth and 17% growth in business travel related to sales organisation expansion. Emissions from Purchase Goods and Services are estimated to have benefitted from 3% reduction of materials consumed in products through sustainability initiatives. Waste generation as % of total emissions has reduced due to increased recycling rates.</p> <p>Sustainability improvement initiatives have contributed to reduction of upstream and downstream transport and distribution emissions, reduction in plastic packaging, reduction of extracted minerals and reduction of plastic components in finished goods.</p>	Estimate 5,270 tCO ₂ e <ul style="list-style-type: none"> • Purchased Goods and Services: 3,619 • Capital Goods: 47 • Downstream T & D: 76 • Upstream T&D: 54 • Waste Generated in Operations: 2 • Business Travel: 1,095 • Employee Commuting: 293 • Use of sold product: 17 • End of life treatment of sold product: 67
Total emissions	Estimated 5,733 tCO₂e

Total estimated emissions increased by 10.5% in 2024. However, this reflects an overall reduction in the rate of emission generation when considered against 42% manufacturing output growth, 16% employee growth, including 17% increase in commercial employees and resulting business travel.

Emissions reduction targets

In order to continue our progress to achieving net zero, we have adopted the following carbon reduction targets.

We project that Scope 2 carbon emissions will decrease over the next five years by 196 tCO₂e by 2030. This is a reduction of 4% of total emissions from 2023 or 45% of Scope 2 emissions from 2023.

We project that the largest contributors to Scope 3 emissions; Purchased goods & services (68%), will be reduced steadily through completion of product, material and supplier sustainability initiatives (examples below) over the coming 10 years. The main challenges in achieving this will be sourcing sustainable but biological and drug compatible alternatives for essential materials and components used in our products and also by diverting our medical device products at end of life from incineration to an alternative economically viable decontamination and reprocessing chain. Employee commuting (6%) and Business travel (21%) will be reduced through embracing and facilitating sustainable alternatives for commuting and business travel.

The goal set in 2024 after completing the baseline assessment for 2023 is to achieve net zero emissions within 20 years (i.e. 2043).

Carbon reduction projects

Completed carbon reduction initiatives

The following environmental management measures and projects have been completed or implemented since the 2023 baseline. The carbon emission reduction achieved by these schemes equate to 237.26 tCO₂e in Aerogen Shannon, 3 tCO₂e in Aerogen Dangan, 0.85 tCO₂e in Aerogen Parkmore, a 48% reduction against the 2023 baseline of Scope 2 emissions and the measures are in effect when performing the contract.

Carbon Reduction projects have included:

- Achieved ISO 14001: 2024 Certification. Recertification in July 2027.
- Achieved Green Lab certification for scientific labs.
- 100% of lighting converted to LED with room occupancy sensors.
- Removal of Natural gas boiler, replacement with heatpump air conditioning units.
- Replacement of fossil fuel cars with electric vehicles for Sales Representatives.
- Downsizing of air compressors from 100kW to energy efficient 37kW units with VSD.
- Downsizing of external water chiller from 200kw to 110kw system.
- Compressor air leak detection programme.
- Moved from air freight to sea freight for imported components.
- Changed main sea freight route reducing distance by 15% and duration by 39 days.
- Improved structure of shipping cartons to facilitate double stacking of pallets in sea freight containers, reducing the qty of sea container journeys by 33%.
- Replaced non-reusable cardboard containers used in daily inter-site product shipments with reusable plastic containers, eliminating 29,800 cardboard cartons in 2024.
- Moved to electricity providers who generate entirely from renewable onshore wind in main manufacturing site at Shannon & at Dangan Office building sites.
- Plastic packaging reduction projects for Aerogen product and removal of plastic foam in packaging.
- Removal of low use plastic components and layers of plastic packaging from finished goods products, resulting in 35.3 Tonnes or 1.6 million units of plastic being eliminated from hospital waste streams in 2024.

- The paper, paperboard and cardboard used in Aerogen's labelling, primary and secondary device packaging cartons and inserts, shipping cartons, pallet edge guards and pallet separator pads are now from sources which are FSC certified.
- Recycling of waste increased to 73% and 89% at manufacturing sites in 2024.
- Partnered with Global Action Plan & Ducky to conduct an employee climate awareness challenge in Nov 2024. 74% of employees participated, logging 48,469 activities yielding 36,932 kgCO₂ carbon savings or 135.45 kgCO₂ per employee.

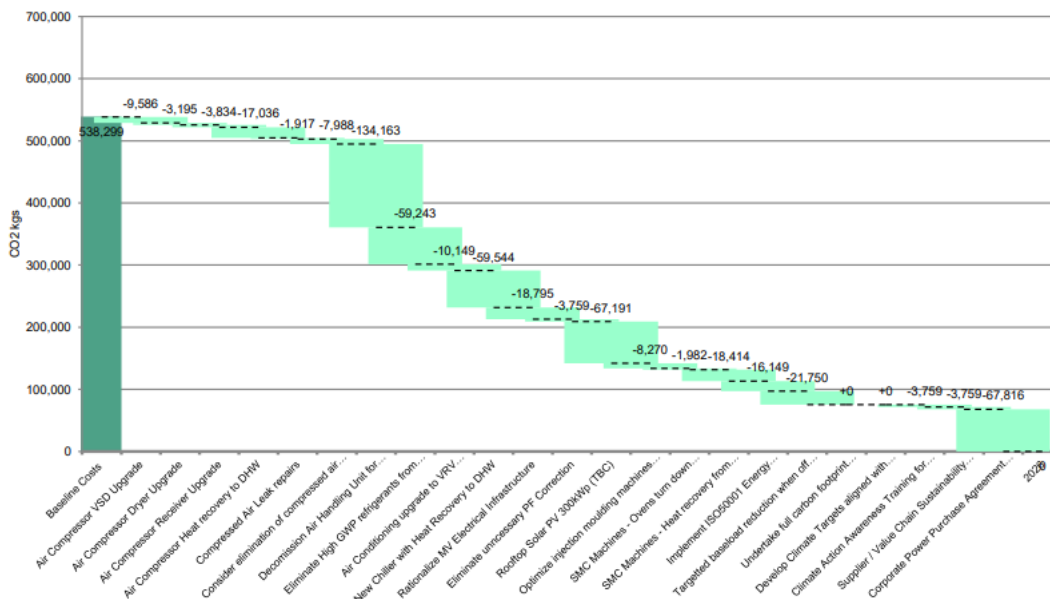
Future carbon reduction initiatives

In the future we are planning to implement further measures such as:

- Corporate Power Purchase Agreement for all Electricity
- Implement an Energy Management System.
- Accreditation to ISO50001 for Energy Management System.
- Supplier/Value Chain Sustainability Strategy
- Climate Action Awareness Training for all staff across all sites
- Monthly reporting of business travel reviewed at senior management level.
- Develop Climate Targets aligned with SBTi
- Undertake full carbon footprint assessment of the business.
- Lifecycle assessment of core products.
- Targeted baseload reduction when off production (100-150Kw Baseload)
- Implement ISO50001 Energy Management (Company wide)
- SMC Machines - Heat recovery from stack to DHW
- SMC Machines - Ovens turn down during scheduled down time
- Optimize injection moulding machines for energy efficiency
- Replacement of extracted minerals with sustainable alternatives in production of Aerogen products.
- Replacement of hydrocarbon polymers with sustainable alternatives in Aerogen products.
- Removal of high temperature manufacturing processes in the manufacturing process.
- Removal of shielding gas as a consumable in the manufacturing process.
- Rooftop Solar PV 300kWp Aerogen SNN
- Install 66 kWp Rooftop Solar PV Aerogen Dangan Building 1
- Install 66 kWp Rooftop Solar PV Aerogen Dangan Building 2
- Install 20 kWp Rooftop Solar PV Aerogen Parkmore
- Eliminate unnecessary PF Correction
- Rationalize MV Electrical Infrastructure
- Eliminate High GWP refrigerants from site (Natural refrigerants strategy)
- Air Conditioning upgrade to VRV System
- IT Equipment Power Down Aerogen Dangan & Aerogen Parkmore
- Common RVR unit to replace single A/C split units Aerogen Dangan
- Heat recovery from Ovens to warehouse in Aerogen Parkmore
- Switch on destrat fans installed in warehouse Aerogen Parkmore
- Continued Compressor air leak detection programme

Aerogen Carbon Neutral Pathway

The following is the pathway for Scope 2 emissions. The Scope 3 emissions pathway has not been fully evaluated.



Declaration and sign off

This Carbon Reduction Plan has been completed in accordance with PPN 006 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 standard¹³ and uses the appropriate government emission conversion factors for greenhouse gas company reporting.¹⁴

Scope 1 and Scope 2 emissions have been reported in accordance with SECR requirements (where required), 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.¹⁵

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:

Signed by:

Declan Slamon



Signer Name: Declan Slamon

Signing Reason: I approve this document

Signing Time: 30-Oct-2025 | 9:38:13 AM GMT

58543534809F4ADFA06E2C18CE5DA418

Declan Slamon, Senior Director Quality, Regulatory & Sustainability

Aerogen Limited

Date: 30-Oct-2025

¹³ <https://ghgprotocol.org/corporate-standard>

¹⁴ www.gov.uk/government/collections/government-conversion-factors-for-company-reporting

¹⁵ <https://ghgprotocol.org/standards/scope-3-standard>



Carbon Reduction Plan guidance

Notes for completion

Where an in-scope organisation has determined that the measure applies to the procurement, suppliers wishing to bid for that contract are required, as a condition of participation, to submit a CRP which details their organisational carbon footprint and confirms their commitment to achieving net zero by 2050.

CRPs are to be completed by the bidding supplier and must meet the reporting requirements set out in supporting guidance and include the supplier's current carbon footprint and its commitment to reducing emissions to achieve net zero emissions by 2050.¹¹

The CRP should be specific to the bidding entity, or, provided certain criteria are met, may cover the bidding entity and its parent organisation. In order to ensure the CRP remains relevant, a CRP covering the bidding entity and its parent organisation is only permissible where the detailed requirements of the CRP are met in full, as set out in the Technical Standard¹² and Guidance, and all of the following criteria are met:

- the bidding entity is wholly owned by the parent
- the commitment to achieving net zero by 2050 for UK operations is set out in the CRP for the parent and is supported and adopted by the bidding entity, demonstrated by the inclusion in the CRP of a statement that this will apply to the bidding entity
- the environmental measures set out are stated to be able to be applied by the bidding entity when performing the relevant contract
- the CRP is published on the bidding entity's website

Bidding entities must take steps to ensure they have their own CRP as soon as reasonably practicable and should note that the ability to rely on a parent organisation's CRP may only be a temporary measure to satisfy this particular condition of participation.

The CRP should be updated regularly (at least annually) and published and clearly signposted on the supplier's UK website. It should be approved by a director (or equivalent senior leadership) within the supplier's organisation to demonstrate a clear commitment to emissions reduction at the highest level. Suppliers may wish to adopt the objectives of the CRP within their strategic plans.

A template for the CRP is set out below. Please complete and publish your CRP in accordance with the reporting standard published alongside this PPN.

¹¹ 'Bidding supplier' or 'bidding entity' means, for the purpose of this guidance, the organisation with whom the Contracting Authority will enter into a contract if it is successful.

¹² <https://www.gov.uk/government/publications/ppn-006-guidance-on-taking-account-of-carbon-reduction-plans-adopting-and-applying-conditions-of-participation-html>

Annex – Guidance notes

- Please provide details of your organisation's baseline emissions. If your organisation has not previously assessed or reported emissions, please state this and use your first reporting period as your baseline.
- Under **Additional details relating to the baseline emissions calculations**, please add details of your baseline emissions as required: for example, that it is a historic baseline which deviates from the requirements under this measure (e.g. no prior Scope 3 emissions reporting); that there had been no previous reporting; or that you have created a new baseline due to substantial organisational change or restructuring.
- Under the heading **Emissions reduction targets**, if your organisation already has emissions reduction targets, please give those targets. If your organisation had no previous emissions reduction commitment, or if this is your organisation's first carbon footprint, please provide targets for your organisation. You may want to show progress against your targets in a graph, like the one show below:
- Under the heading **Completed carbon reduction initiatives**, please provide brief details of some of your completed carbon reduction projects. This is for information only. This may include environmental management measures such as certification schemes like ISO14001 or PAS 2060, signing up to SBTi or specific measures you have taken such as: the adoption of LED/PIR lighting controls, changes to policy resulting in a reduction in company travel and flights or the electrification of the company fleet.
- Under the heading **Future carbon reduction initiatives**, please provide brief details of some of your likely/proposed future carbon reduction projects, if any. This is for information only.