

CONSERV

Carbon Reduction Plan

Version 1.02

Publication Date: August 2026

Baseline Year: FY2025/26 (July 2025 – June 2026)

Commitment to achieving Net Zero emissions by 2050

Conserv Solutions, Inc.

conserv.io

1. Commitment to Net Zero

Conserv Solutions, Inc. is committed to achieving Net Zero greenhouse gas emissions by 2050, in line with the UK Climate Change Act 2008 (as amended) and the goals of the Paris Agreement, and has set its own target of Net Zero by 2040.

Conserv is a remote-first technology company of thirteen people, providing environmental monitoring solutions to museums, libraries, archives and historic properties worldwide. We recognise both our responsibility to reduce our own emissions and the unique opportunity our products offer to help cultural institutions understand and optimise their own energy use and environmental performance.

Conserv has assessed its Scope 1 and Scope 2 emissions as 0 tCO₂e, and PPN 006 required categories of Scope 3 as 39.31 tCO₂e (see Section 2.2). We are committed to monitoring and reporting on all scopes annually.

2. Baseline Emissions

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.

2.1 Emissions Reporting Status

Our baseline year is FY2025/26 (July 2025 – June 2026). We completed an operational boundary review for Scope 1 and Scope 2 emissions in March 2026, and an initial assessment of Scope 3 emissions in August 2026. v1.01, issued March 2026, declared this baseline year before it closed; the figures in this version supersede it.

The baseline is calculated in accordance with the Greenhouse Gas Reporting Protocol Corporate Standard and covers all emission sources required under PPN 006.

2.2 Emissions Profile

Based on our review and assessment, we report the following:

	tCO ₂ e
Scope 1	0.00

	tCO ₂ e
Scope 2	0.00
Scope 3 (included sources as detailed below)	39.31
Total emissions	39.31

Scope 1 and Scope 2 are both assessed as 0 tCO₂e for the following reasons: Conserv does not own or lease any vehicles, premises, combustion equipment, or refrigeration systems, with the exception of two small self-storage units for equipment. Conserv exercises no control over these buildings and energy is embedded in the rent. As a result, Conserv does not directly purchase any electricity, heating, or cooling. Manufacturing and warehousing are performed by third parties and captured under Scope 3 and employee home-working energy is captured under Scope 3.

Scope 3 emissions by category

The PPN 006 technical standard requires five of the fifteen GHG Protocol Scope 3 categories. All five are reported below, including those that are nil.

Category	Description	tCO ₂ e
4	Upstream transportation and distribution	0.34
5	Waste generated in operations	0.01
6	Business travel	30.66
7	Employee commuting	8.30
9	Downstream transportation and distribution	0.00
Total Scope 3 (required categories)		39.31

2.3 Baseline Measurement Plan

We completed our initial baseline using the following approach:

- Scope 1: Assessed as 0 tCO₂e following an operational boundary review. Documented in an internal Scope 1 & 2 Assessment Record and reviewed annually.
- Scope 2: Assessed as 0 tCO₂e following an operational boundary review. Conserv does not purchase any electricity, heating, or cooling. Documented alongside Scope 1 and reviewed annually.
- Scope 3, Upstream transport: Calculated emissions from international freight (sensors shipped from manufacturer to 3PL warehouse) and outbound shipping to institutions worldwide
- Scope 3, Business travel: Aggregated air and ground travel for conferences, institution visits, and team meetings
- Scope 3, Waste: Estimated waste from returned hardware, packaging, and electronic waste
- Scope 3, Employee homeworking: Estimated from the EcoAct 2020 whitepaper's US regional parameters priced with eGRID2023 rev2, EPA, ECCC and Argentine national factors for our distributed team.

We also conducted an initial assessment of the other categories in Scope 3 not required by PPN 006. In particular, we believe that Category 1, Purchased goods & services, will be a significant portion of our overall emissions, but different methods of calculation yielded substantial differences in results. As a result, we have provided this information in our Scope 3 Assessment Record and will do further work to improve our measurement of this category in subsequent years.

3. Current Emissions Reporting

As this year is our baseline year, current emissions equal baseline emissions. This section will be updated in subsequent years.

	tCO ₂ e
Scope 1	0.00
Scope 2	0.00
Scope 3 (included sources as detailed below)	39.31

	tCO₂e
Total emissions	39.31

Factors that we expect will materially affect our reporting in FY2026/27 include:

- **An increase in Category 4 emissions.** More batches of inventory are due to land at our fulfillment centers in FY2026/27 due to stock timing and increased volume. Purchased goods will also step up for a similar reason as we received more units in July 2026 than in the preceding year.
- **A decrease in long-haul business travel.** In particular, one trip to the UAE from the US was taken in the reporting period that we do not expect to repeat in the next year. This single flight accounted for 29% of our business travel emissions in this reporting period.

4. Emission Reduction Measures (Already in Place)

Conserv has already embedded a number of practices into its business model and operations that meaningfully reduce our carbon footprint. These have been adopted as core business practices for many years and are not retrofitted sustainability measures.

Circular Hardware Model

Conserv operates a subscription model in which sensors can be recalibrated or returned, refurbished, and redeployed every 3 years. Our electronics design separates the radio functionality from the sensor functionality on separate boards, so each can be replaced without having to discard the other. This approach avoids the common industry pattern of sensors being disposed of at end-of-life and significantly reduces manufacturing emissions per unit over time.

Our sensor enclosures are moulded from polycarbonate (Makrolon 2407), a durable, UV-stabilised thermoplastic. Its durability means enclosures can be reused across multiple sensor deployment cycles, reducing the need for new material. At end-of-life, polycarbonate can be mechanically recycled through specialist plastics recycling streams.

Energy-Efficient Product Design

Our LoRaWAN sensors are designed for extremely low power consumption, operating on batteries for extended periods. This minimises the operational energy footprint of our deployed products at institution sites compared to alternatives using other forms of wireless communication, such as Wi-Fi.

Takeback Programs

Conserv is often deployed at institutions that already have environmental monitoring in place. Where practical, we assist these institutions in minimizing the environmental impact of retiring their old equipment. Examples of this include:

1. Refurbishing legacy data loggers such as PEM2s and HOBOS, where possible, and sending them to small institutions who cannot afford modern monitoring solutions, via our partnerships with groups providing services to those institutions, including [FAIC](#), MACC, Treasure Caretakers, and Balboa Art Conservation Center.
2. Taking back Hanwell monitors so they can be reused in whole or in part by institutions who are not yet able to migrate from this system via our partnership with Gwentec.

Remote Installation

Conserv's intuitive product design means that the majority of our customers install the product themselves, with no need for Conserv staff to come onsite. This is a significant improvement from older, more complex solutions that require technical expertise to install, and significantly reduces the carbon footprint of Conserv by reducing travel relative to that required by these solutions.

Remote-First Operations

Conserv has been a fully remote company since its founding in 2018. We have no owned or leased office space and no company-paid co-working memberships, which is the basis for our Scope 1 and Scope 2 assessments of 0 tCO₂e. This also eliminates daily employee commuting for our team.

Cloud-Based Software Delivery

All Conserv software is delivered via AWS cloud infrastructure. Hyperscale facilities run at higher utilisation and lower energy overhead than self-hosted equivalents, so the same workload consumes less electricity.

Carbon Removal

We contribute a portion of payments for Conserv subscriptions made via Stripe to carbon removal projects via Stripe Climate. To date, we have contributed \$4,326 to 65 projects, representing an estimated 12 tons of permanent carbon removal.

5. Emission Reduction Targets

Now that we have completed our initial baseline assessment of Scope 3, we will set formal, quantified reduction targets to make progress towards Net Zero, per the timeline below:

Timeframe	Target	Notes
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Completed	Scope 1 & 2 operational boundary review: both assessed as 0 tCO ₂ e.	Documented in internal Assessment Record. To be reviewed annually.
Completed	Completed Scope 3 baseline emissions measurement (FY2025/26).	Using GHG Protocol Corporate Standard. Covered all required Scope 3 categories.
By Q2 2027	Publish 5-year per-category targets.	Targets will cover each material Scope 3 category individually.
2027–2030	Achieve measurable year-on-year reductions in emissions intensity (tCO ₂ e per unit shipped / per employee).	Focus areas: supply chain, logistics, and travel.
By 2040	Achieve Net Zero emissions.	Ten years ahead of the UK legal requirement, allowing for buffer.

Based on our initial assessment, we project that carbon emissions will decrease over the next five years to 27.5 tCO₂e by FY2030/31, a reduction of 30% against the FY2025/26 baseline of 39.31 tCO₂e. The projection is set on an intensity basis (3.74 falling to 2.62 tCO₂e per full-time-equivalent employee), and assumes headcount at the baseline level. Where headcount grows, we will measure against the intensity target and continue to report absolute emissions alongside it. In addition, as we incorporate more categories into Scope 3, this projection will change.

6. Planned Emission Reduction Measures

The following measures are planned for implementation over the next 1–3 years, prioritised by expected impact and feasibility for a company of our size.

Supply Chain & Manufacturing (Scope 3)

- Engage our contract manufacturer on their energy sourcing and carbon reporting, and factor emissions performance into future supplier selection decisions
- Engage our 3PL warehouse provider on their energy sourcing and emissions reporting
- Increase the proportion of refurbished components in redeployed sensors, extending the reuse of radio boards and enclosures, and increase the ease of calibration by customers so that sensors make fewer “round trips” between Conserv and customer sites
- Review packaging and shipping materials and require fully recyclable or compostable materials where not already in use.

Logistics & Transport (Scope 3)

- Improve inventory forecasting to consolidate shipments from our manufacturer and maximize the use of sea freight where possible
- Continue to optimize regional distribution points to reduce last-mile shipping distances.

Business Travel (Scope 3)

Conserv already minimizes travel to a significant degree relative to comparable onsite-install solutions with its remote-first model for both internal operations and customer installation, although travel still makes up a significant portion of our emissions due to our sales activity.

- Enhance our travel policy to require justification for air travel and promote alternative forms of transport where practical (e.g. rail), including explicit rules for when business class travel is appropriate (note that Conserv's current policy is to use Economy-class fares but is not explicit about when exceptions are permitted)
- Continue to optimize our "clustering" approach for institution visits and conference attendance to reduce the number of individual trips
- As we expand internationally, we are hiring regional representatives and partners, which will have the effect of minimizing international travel.

Cloud Infrastructure & Digital Operations (Scope 3)

- Report annually on our cloud providers' own decarbonisation progress and published carbon intensity. Cloud is our largest purchased-services line, so our suppliers' trajectory is a material driver of Conserv's future emissions
- Factor grid carbon intensity into region and service selection where latency, data-residency and performance requirements allow
- Identify an approach towards monitoring the impact of AI usage, and set policies to minimize impact (such as by preferring smaller models where possible).

Waste (Scope 3)

- Maintain and improve our sensor return and refurbishment programme, including refining our customer communications to educate them on our circular design ethos and minimize unnecessary waste (e.g. using permanent markers on enclosures)
- Ensure all non-reusable electronic components are directed to certified e-waste recycling, and capture the certificates
- Track and report waste volumes as part of our annual emissions measurement

7. Governance & Monitoring

As a company of 13 people, we will keep governance lightweight but accountable:

- A named member of the leadership team (Dave Masom, CEO) will be responsible for carbon reduction planning and reporting
- Emissions will be measured annually and reported in an updated version of this plan
- The Scope 1 & 2 Assessment Record will be reviewed annually to confirm no change in operational boundary
- Progress against targets will be reviewed quarterly by the leadership team.

8. Declaration & Sign-Off

This Carbon Reduction Plan has been completed in accordance with PPN 006 and the associated guidance.

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 (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.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors. Date of board approval: August 20th, 2026.

Signed:



Name & Title:

Dave Masom, CEO

Date:

August 20th, 2026

On behalf of Conserv Solutions, Inc.

Document control

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