

Carbon Reduction Plan for Thalamos Ltd

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Thalamos Net Zero Commitment

Thalamos Ltd is committed to achieving **Net Zero carbon emissions by 2050**, in alignment with the UK government's legally binding targets and the **NHS Green Plan**. As a healthcare software company based in London, we specialise in developing digital workflow software and tools that streamline statutory Mental Health Act (MHA) admission processes, enabling hospitals to improve efficiency and patient care while significantly reducing their environmental impact.

In addition to our operational commitments, we run our software and securely store data using **AWS Europe (London) data centres**, which are powered by 100% renewable energy. AWS's investments in renewable energy and carbon reduction directly align with Thalamos's commitment to sustainability and innovation.

Baseline Emissions Footprint

Our baseline emissions are calculated in alignment with the **GHG Protocol Corporate Standard**, which categorises emissions into Scope 1, 2, and 3. The baseline year is **2024** as Thalamos has only just moved to a new sole occupant office, in September 2024, having previously been based in a communal office space at the Health Foundry, Canterbury House, 1 Royal St, London SE1 7LL. We have managed to establish a baseline emissions footprint so quickly as we the office only uses electricity from 100% renewable sources and all employees use low carbon modes of transport.

Scope 1: Direct Emissions

- **Thalamos does not own or use any vehicles**, and the office uses electric heating powered by 100% renewable energy, resulting in **zero Scope 1 emissions**.

Scope 2: Indirect Energy Emissions

- The office consumes on average **34,132 kWh of electricity** annually (<https://find-energy-certificate.service.gov.uk/energy-certificate/0940-3904-0306-1360-3024>) sourced from certified **100% renewable energy providers** that comply with the

Renewable Energy Guarantees of Origin (REGO) scheme, contributing to zero Scope 2 emissions.

Scope 3: Other Indirect Emissions

Scope 3 emissions include employee commuting, limited business travel, AWS data centre operations, office supplies, and waste:

- **Employee commuting:** Emissions are calculated based on commuting patterns and transportation modes.
 - **London Underground (6 employees):** 6,240 kg CO₂ per year.
 - **National Rail (5 employees):** 6,058 kg CO₂ per year.
 - **Local Buses (0 employees):** 0 kg CO₂ per year.
 - **Total annual commuting emissions:** 12,298 kg CO₂.
- **Business travel:** Minimal, with virtual meetings prioritised.
- **AWS Data Centres:** Hosted in AWS Europe (London) region, which has achieved **zero emissions** through 100% renewable energy since 2021.
- **Procurement:** Focused on sustainable IT equipment, office products, sustainable and locally sourced food and drink products, and recycling. In addition, We seek out and use suppliers who align with the Thalamos Net Zero commitment.
- **Waste:** Limited office waste with strong recycling practices.

2024 Baseline Emissions

Scope	Emission Source	Baseline Emissions (tCO₂e)
Scope 1	None (vehicles, heating powered by renewables)	0.0
Scope 2	Electricity usage (100% renewable energy)	0.0
Scope 3	Employee commuting, business travel, AWS data centres, procurement, waste	12.3
Total		12.3 tCO₂e

*Baseline emissions align with the NHS Green Plan's recommendations for GHG accounting and the **UK Government's Net Zero Strategy.***

Environmental Impact of AWS Europe (London) Data Centres

All Thalamos software products store data using **AWS Europe (London) data centres**, which have been powered by **100% renewable energy** since 2021. This partnership enhances the sustainability of our operations and supports the broader transition to a Net Zero future.

Key Highlights of AWS's Sustainability Achievements:

1. Renewable Energy Leadership

- a. AWS Europe (London) region is 100% powered by renewable energy sourced from utility-scale wind and solar projects.
- b. AWS achieved its 100% renewable energy goal seven years ahead of its original 2030 target.

2. Third-Party Assurance

- a. AWS's renewable energy claims are independently verified by **Ernst & Young**, providing assurance of their accuracy.

3. Global Clean Energy Investments

- a. AWS is the world's largest corporate purchaser of renewable energy and is a leading investor in offshore wind projects globally.
- b. These investments create new clean energy sources and support hundreds of local jobs.

4. Net-Zero Commitment

- a. AWS is committed to achieving **net-zero carbon across its operations by 2040**, 10 years ahead of the **Paris Agreement** targets.

Reference:

- **Amazon Web Services. Sustainability in the Cloud.**

Link: [AWS Sustainability](#)

Environmental Impact of Thalamos Software

Thalamos eMHA software directly supports the **NHS Green Plan's Digital Transformation goals**, which emphasize reducing emissions through paperless processes and remote collaboration.

Key Carbon-Saving Benefits

1. Paper Elimination

- a. Our software eradicates the need for paper-based MHA forms, reducing emissions associated with paper production, printing, and storage.

2. Travel Reduction

- a. Digital interoperability between stakeholders minimizes the need for physical delivery of forms, avoiding emissions from transport.

3. Sector-Wide Impact

- a. If every mental health hospital and region in England adopted Thalamos eMHA software, it would collectively save **4,619 kg CO₂e per year**, equivalent to the carbon absorption of **76 trees over a decade**.

Reference:

- **NHS England. Delivering a Net Zero National Health Service. October 2020.**

Link: [NHS Green Plan](#)

2025 Emissions Target

We aim to achieve a **10% reduction** from baseline emissions by implementing the measures outlined below.

Scope	Reduction Actions	Target Emissions (tCO₂e)
Scope 1	Maintain zero emissions through renewable energy use	0.0
Scope 2	Maintain zero emissions with renewable electricity	0.0
Scope 3	Optimise employee commuting, provide cycle to work schemes, encourage hybrid working patterns, improve procurement and waste management.	11.1
Total		11.1 tCO₂e

Environmental Management Measures

Alignment with the NHS Green Plan

1. Energy and Estates

- Maintain use of 100% renewable electricity for all office operations.
- Continue to leverage AWS London-based data centres with verified zero emissions.

2. Travel and Transport

- Promote active commuting (cycling and walking) and incentivise public transport use.
- Minimise business travel and prioritise virtual collaboration.

3. Digital Transformation

- Support hospitals in adopting paperless workflows to eliminate emissions from printing and transport.
- Enhance software efficiency to reduce the computing energy required for operations.

4. Supply Chain and Waste Management

- Prioritise green-certified suppliers and adopt circular economy principles.
- Expand recycling programs to ensure minimal waste.

Carbon Reduction Targets

Our interim targets align with the **NHS Green Plan** and the **UK Net Zero Strategy**:

Year	Target Emissions Reduction
2025	20% reduction from baseline
2030	50% reduction from baseline
2040	80% reduction from baseline
2050	Achieve Net Zero

Governance and Monitoring

- Emissions data is tracked using **GHG Protocol-compliant tools**.
- Progress is reviewed quarterly by the Board of Directors.
- Annual reports are publicly disclosed in alignment with **UK Government and NHS reporting standards**.
- We will adhere to the following standards and protocols wherever possible when implementing our carbon reduction plan:

1. NHS Green Plan and Net Zero Strategy

- **NHS Delivering a Net Zero National Health Service (2020):**
- NHS's landmark report that outlines the commitment to reaching Net Zero by 2040 for directly controlled emissions and by 2045 for the wider supply chain.

Reference:

- NHS England. Delivering a Net Zero National Health Service. October 2020. [Link](#)

2. GHG Protocol

- **Corporate Standard for GHG Accounting and Reporting (Scope 1, 2, and 3):**

Reference:

- Greenhouse Gas Protocol. A Corporate Accounting and Reporting Standard. Revised Edition. [Link](#)

3. ISO Standards

- **ISO 14001 (Environmental Management Systems):**
- **ISO 50001 (Energy Management Systems):**

4. UK Government Guidance

- **Net Zero Strategy: Build Back Greener (2021):**

5. Renewable Energy Certifications

Renewable Energy Guarantees of Origin (REGO):

Reference:

- Ofgem. Renewable Energy Guarantees of Origin (REGO) Scheme. [Link](#)

6. Science-Based Targets Initiative (SBTi) Reference:

- Science Based Targets Initiative. [Link](#)

7. Local and Sector-Specific Commitments

- **Greening Government Commitments (GGC):**

Reference:

- HM Government. Greening Government Commitments 2021-2025. [Link](#)

8. Sustainable Development Goals (SDGs)

- **United Nations SDG 13 (Climate Action):**

Reference:

- United Nations. Sustainable Development Goal 13: Climate Action. [Link](#)

Approval

This Carbon Reduction Plan has been approved by the Board of Directors of Thalamos Ltd.

Director Signature:



Title: CEO, Thalamos Ltd

Date: 2/12/2024

Public Disclosure

This Carbon Reduction Plan is publicly available at:

www.thalamos.co.uk/carbon-reduction-plan