

Clinical Network Systems Ltd

Carbon Reduction Plan

Publication date: January 2026

Supplier name: Clinical Network Systems Ltd (trading as PACENET)

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Supplier Information

Clinical Network Systems Ltd (trading as PACENET) provides clinical software solutions to NHS trusts and healthcare organisations across England and Wales, supporting improved patient care through digital transformation.

We are a trusted NHS software supplier, delivering cost-efficient, clinically assured products that are responsive to frontline needs. Our focus on digital solutions supports the healthcare system to reduce administrative burden on clinical staff, improve patient safety and clinical outcomes, enable more efficient use of NHS resources, and support data-driven clinical decision making.

As a fully remote organisation with 9 full-time employees and no physical offices, we operate a low-carbon digital business model. Our emissions primarily derive from business travel to NHS sites, employee commuting for monthly co-working sessions, and our cloud-based software infrastructure.

Commitment to achieving Net Zero

Clinical Network Systems Ltd is committed to achieving Net Zero emissions by 2045 for our UK operations, aligning with and exceeding the UK Government's 2050 target and supporting the NHS in achieving its ambitious net zero goals.

In alignment with the NHS net zero supplier roadmap and the Greener NHS ambition:

- **For the emissions we control directly (our Carbon Footprint - Scope 1 and 2):**

We are committed to reaching net zero by 2045, with an ambition to reach an 80% reduction by 2035

- **For the emissions we can influence (our Carbon Footprint Plus - Scope 3):** We are committed to reaching net zero by 2045, with an ambition to reach an 80% reduction by 2040

This commitment was approved by the Board of Directors and demonstrates our alignment with the NHS net zero supplier roadmap requirements.

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: 2024

Additional Details relating to the Baseline Emissions calculations

2024 is the first year for which Clinical Network Systems Ltd has comprehensive emissions data across all required scope categories. As a software company with 100% remote working arrangements and no physical office space, we have no Scope 1 emissions (no company vehicles or on-site combustion) and minimal Scope 2 emissions (limited to occasional co-working space usage). Our operating model as a fully remote organisation with 9 employees significantly reduces our carbon footprint compared to traditional office-based operations.

Baseline year emissions

EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	0.0
Scope 2	0.09
Scope 3 (Included Sources)	6.1
Total Emissions	6.2

Detailed Emissions Breakdown by Scope

Scope 1: Direct Emissions

Total Scope 1: 0.0 tCO₂e

As a fully remote software company with no physical office space, PACENET has no Scope 1 emissions. We do not own or control:

- Company vehicles (employees use personal vehicles or public transport)
- Office heating systems (no physical office)
- On-site fuel combustion equipment

Scope 2: Indirect Emissions from Purchased Energy

Total Scope 2: 0.09 tCO₂e

Co-working space electricity: 0.09 tCO₂e

PACENET rents shared workspace (similar to WeWork) for 1 day per month for team collaboration. Electricity is included in the rental and we estimate:

- Usage: 9 employees × 12 months × ~5 kWh/person-day = 540 kWh/year
- UK Grid factor (2024): 0.168 kg CO₂e/kWh
- Calculation: 540 kWh × 0.168 = 90.7 kg = 0.09 tCO₂e

Note: Employee home office electricity is not included in Scope 2 as PACENET does not reimburse or directly pay for home energy costs. Under operational control boundaries, these would be considered Scope 3 indirect emissions.

Scope 3: Other Indirect Emissions

Total Scope 3: 6.1 tCO₂e

The Scope 3 emissions total includes the following categories required under PPN 06/21 and NHS guidance:

3.1 Purchased Goods and Services: 4.78 tCO₂e

- IT Equipment & Hardware (£10,000/year): 1.32 tCO₂e
Using UK DESNZ factor for 'Computer programming, consultancy' (0.13163 kg CO₂e/£)
- Software & SaaS Licenses (estimated £15,000/year): 1.97 tCO₂e
Using same IT services factor
- Cloud Hosting & Servers (estimated £5,000/year): 0.95 tCO₂e
Using data center services factor (0.19 kg CO₂e/£)
- Professional Services (estimated £5,000/year): 0.54 tCO₂e
Legal, accounting, consultancy factor (0.10884 kg CO₂e/£)

3.4 Upstream Transportation and Distribution: 0.05 tCO₂e

- Shipping of IT equipment from suppliers (minimal, most UK-sourced)

3.5 Waste Generated in Operations: 0.02 tCO₂e

- E-waste from end-of-life IT equipment disposal (approximately 2 laptops/year)
- Minimal waste as digital-only business with paperless operations

3.6 Business Travel: 0.89 tCO₂e

- **NHS Site Visits by Train:** 0.77 tCO₂e
2 employees × 52 weeks × 200 miles = 20,800 miles/year
National rail factor: 0.03694 kg CO₂e/passenger-mile (UK DESNZ 2024)
- **Public Transport (Underground/Metro):** 0.12 tCO₂e
Estimated 20% of journey on London Underground/local metro
4,160 miles × 0.02965 kg CO₂e/mile = 123 kg

3.7 Employee Commuting: 0.34 tCO₂e

- Monthly co-working space meetings: 9 employees × 12 months = 108 commute days/year
- Average commute distance: 15 miles (30 miles return)
- Mixed transport (50% car, 50% public transport):
Car: 54 days × 30 miles × 0.171 kg CO₂e/mile = 277 kg
Public transport: 54 days × 30 miles × 0.037 kg = 60 kg

3.9 Downstream Transportation and Distribution: 0.0 tCO₂e

- Digital software delivery with no physical product shipping to clients

Benchmarking and Context

PACENET's total carbon footprint of 6.2 tCO₂e represents:

- 0.69 tCO₂e per employee per year - significantly below the UK SME average of 3-5 tCO₂e per employee
- Equivalent emissions to approximately 2 diesel vans operating for one year
- 75-85% lower than a comparable 9-person office-based business (typically 15-25 tCO₂e)

Our fully remote operating model, paperless operations, and use of public transport for business travel contribute to this substantially reduced carbon footprint.

Calculation Methodology

All emissions calculations use:

- UK Government DESNZ Greenhouse Gas Conversion Factors 2024
- GHG Protocol Corporate Accounting and Reporting Standard
- Operational control approach for organizational boundaries
- Market-based methodology for Scope 2 electricity where supplier-specific data available

Current Emissions Reporting

Reporting Year: 2025

EMISSIONS	TOTAL (tCO ₂ e)
Scope 1	0.0
Scope 2	0.09
Scope 3 (Included Sources)	5.7
Total Emissions	5.8

This represents a 6.5% reduction from the 2024 baseline, achieved through the emissions reduction measures detailed below.

Emissions reduction projects

The following environmental management measures and projects have been completed or implemented since the 2024 baseline. The carbon emission reduction achieved by these schemes equate to 0.4 tCO₂e, a 6.5% reduction against the 2024 baseline and the measures will be in effect when performing the contract.

Completed Projects

- **Enhanced Remote Support Capabilities:** Investment in remote desktop support tools and enhanced video conferencing reduced the need for on-site visits by 15% while maintaining service quality for NHS customers
- **Journey Optimisation:** Implementation of journey planning software and clustering of site visits reduced overall business mileage by 10% through more efficient routing and combined trips
- **Sustainable Procurement Policy:** Implemented procurement criteria favouring suppliers with verified carbon reduction plans and net zero commitments, particularly for cloud hosting services and IT hardware
- **Cloud Provider Selection:** Migrated to cloud hosting providers with ISO 14001 certification and carbon neutral commitments
- **Equipment Lifecycle Extension:** Extended IT equipment refresh cycle from 3 to 4 years where feasible, reducing embodied carbon from new purchases

Future Measures

In the future we plan to implement further measures such as:

- **Zero Emission Vehicle Transition:** Support employees who regularly travel to NHS sites in transitioning to electric or plug-in hybrid vehicles by 2028 through information provision and green car lease schemes
- **Cloud Infrastructure Optimisation:** Ensure NHS software platforms run on 100% renewable energy by 2027, with 30% reduction in computational energy requirements through code optimisation and efficient architecture
- **Supplier Engagement Programme:** Engage key IT suppliers to ensure they have Science Based Targets initiative (SBTi) verified carbon reduction plans aligned to net zero by 2045
- **Digital-First Service Delivery:** Reduce on-site visits by additional 20% by 2028 through improved digital tools and virtual reality training platforms
- **Employee Carbon Literacy:** Implement annual carbon literacy training for all staff to support informed decisions about travel, energy use, and procurement
- **Green Energy Support:** Provide information and guidance for employees to switch to renewable energy tariffs for home offices, targeting 80% adoption by 2028
- **Product Carbon Footprint Measurement:** Develop methodologies to measure and report the carbon footprint of our software products to NHS customers, supporting their Scope 3 reporting

Carbon Reduction Trajectory to 2030

Year	Projected Emissions (tCO ₂ e)	Reduction from Baseline
2024	6.2 (baseline)	---
2025	5.8	6.5%

2026	5.3	15%
2027	4.7	24%
2028	4.2	32%
2029	3.7	40%
2030	3.4	45%

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 and uses the appropriate Government emission conversion factors for greenhouse gas company reporting (UK DESNZ 2024).

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.

This Carbon Reduction Plan has been reviewed and signed off by the board of directors (or equivalent management body).

Signed on behalf of Clinical Network Systems Ltd:

Name: Stefan M Ogden

Position: Director / Member of the Board

Date: 31st January 2026

This Carbon Reduction Plan will be published on the Clinical Network Systems Ltd website and updated at least annually in accordance with PPN 06/21 requirements.