

Aqua Medical GHG Emission Reduction Plan

Objective:

To achieve measurable, sustainable reductions in Scope 1, 2, and 3 greenhouse gas emissions across Aqua Medical's operations, supply chain, and product lifecycle, while supporting the UK NHS Net Zero targets and broader healthcare decarbonisation goals.

Emissions Baseline Assessment

Key Actions:

- **Inventory Development:**
 - Establish a complete GHG emissions baseline, covering:
 - **Scope 1:** Direct emissions from company-owned vehicles and facilities (e.g., heating systems, generators).
 - **Scope 2:** Indirect emissions from purchased electricity, heating, and cooling.
 - **Scope 3:** Indirect emissions in the value chain (upstream materials, distribution, product use, waste disposal).
 - Use a recognised protocol (e.g., GHG Protocol Corporate Standard) and certified tools to quantify emissions.
- **Data Collection Plan:**
 - Meter energy usage in each facility.
 - Capture fleet fuel consumption records.
 - Engage suppliers for Scope 3 emissions data.
 - Document emissions intensity per unit of production or service delivered.

Reduction Targets

Target Framework:

- **Short-term (by 2027):**
 - Cut Scope 1 & 2 emissions by 30% from the baseline year.
 - Reduce business travel emissions by 25%.
 - Implement supplier engagement covering 50% of Scope 3 emissions.
- **Medium-term (by 2030):**
 - Achieve 60% reduction in Scope 1 & 2 emissions.
 - Require 75% of suppliers (by spend) to set science-based targets.
 - Introduce low-carbon product lines.
- **Long-term (by 2040):**
 - Net Zero emissions across all scopes.

Alignment:

- NHS Net Zero Supplier Roadmap.
- ISO 14064 GHG validation standards.
- Science Based Targets initiative (SBTi).

Decarbonisation Strategies

A. Facilities & Operations

- Transition all facilities to **100% renewable electricity** (e.g., REGO-certified contracts).
- Upgrade HVAC systems and insulation to improve energy efficiency.
- Install onsite solar PV or other renewable generation where feasible.
- Implement smart lighting, occupancy sensors, and energy management software.

B. Fleet and Logistics

- Convert company vehicles to electric or hybrid models by 2030.
- Optimise delivery routing and logistics consolidation.
- Train drivers in eco-efficient driving practices.

C. Supply Chain and Procurement

- Develop a **Sustainable Procurement Policy** requiring:
 - Carbon disclosures from key suppliers.
 - Minimum environmental standards in tenders.
 - Preference scoring for lower-carbon materials.
- Encourage suppliers to adopt renewable energy and sustainable packaging.

D. Product & Packaging

- Assess product life cycle GHG footprint.
- Redesign packaging to reduce material use and improve recyclability.
- Incorporate bio-based or low-carbon materials.

E. Digital Transformation & Telehealth

- Expand telemedicine solutions to reduce patient travel emissions.
- Transition internal processes to paperless systems.

Employee Engagement and Culture

- Launch an internal **Sustainability Champions** programme.
- Deliver training on low-carbon practices.
- Offer incentives for staff to switch to greener commuting.
- Communicate progress regularly via newsletters and dashboards.

Monitoring, Reporting, and Verification

- Use a GHG accounting platform to track progress quarterly.
- Publicly disclose emissions annually in line with:
 - Streamlined Energy and Carbon Reporting (SECR).
 - Task Force on Climate-related Financial Disclosures (TCFD) recommendations.
- Commission third-party verification of emissions data.
- Update the plan every 2 years to incorporate new technologies and targets.

Governance and Oversight

- Assign the Chief Sustainability Officer (or equivalent) overall accountability.
- Establish a cross-functional **GHG Reduction Steering Committee**:
 - Facilities
 - Procurement
 - Logistics
 - Clinical leadership
 - Finance
- Review performance quarterly at board level.

Complementary Offsetting (as interim measure)

- For residual emissions, invest in:
 - Verified reforestation projects.
 - Renewable energy credits.
 - Healthcare-aligned offset programmes.
- Phase out reliance on offsets as reductions deepen.

Next Steps

1. Confirm baseline year and gather data within 3 months.
2. Set final approved targets by Q4 2025.
3. Launch employee training by Q1 2026.
4. Begin supplier engagement programme by mid-2026.

Conclusion

This plan positions Aqua Medical to demonstrate leadership in decarbonising healthcare delivery while improving operational efficiency and resilience. I can also help you draft accompanying policies, create presentations, or develop detailed action plans for each pillar if you'd like.

Let me know if you'd like this tailored further to specific facilities, products, or regulatory frameworks!