

Detailed Net Zero Decarbonisation Plan

This is tailored to *Northern Divers*, based on our Scope 1 and Scope 2 emissions data. This plan provides a strategic roadmap to reduce and ultimately offset the organization’s total **78.35 tons of CO<sub>2</sub> emissions**.

1. Baseline Emissions (Annual)

Source	Scope	Co2 Emissions (Tons)
Electricity	Scope 2	15.5
Natural Gas	Scope 1	4.35
Fuel Vehicles	Scope 1	52.0
Recycled Paper	Scope 2	0.005
Dive Boats (Fuel)	Scope 1	7.5
Total		78.35

Table 1: Total CO2 Emissions

2. Decarbonisation Goals

- **Short-Term (2025–2027):** Reduce emissions by 30% (~23.5 tons)
- **Medium-Term (2028–2032):** Reduce emissions by 60% (~47 tons)
- **Net Zero Target:** By 2035, achieve **net zero** via reduction + certified offsets

3. Decarbonisation Strategy by Source

a. Electricity (15.5 tons)

Action Plan:

- Switch to **100% renewable electricity provider** (target: 2025)
- Monitor change from **solar panels** on facility rooftops (fitted 2024)
- Conduct **energy efficiency audit** (2025) to optimize lighting, HVAC, and equipment use

**Expected Reduction:** Up to 90% (~13.95 tons)

b. Natural Gas (4.35 tons)

Action Plan:

- Replace gas heating with **electric heat pumps** or **infrared heaters**
- Improve building **insulation and passive heating systems**
- Implement **smart thermostats** to optimize energy use

**Expected Reduction:** 80% (~3.5 tons)



### **c. Fuel Vehicles (52 tons)**

#### **Action Plan:**

- Transition to **electric or hybrid vehicle fleet** (phased 2025–2030)
- Install EV charging stations at operational bases
- Implement **route optimisation software** for logistics and travel
- Encourage **carpooling, cycling, and public transport** for staff

**Expected Reduction:** 75% (~39 tons by 2030)

### **d. Dive Boats (7.5 tons)**

#### **Action Plan:**

- Replace diesel outboards with **electric propulsion systems** (pilot by 2026)
- Use **biofuels or synthetic fuels** during transition phase
- Retrofit boats for **efficiency** (e.g., hull cleaning, propeller upgrades)
- Optimize scheduling to reduce idle time and fuel use

**Expected Reduction:** 60% (~4.5 tons)

### **e. Recycled Paper (0.005 tons)**

#### **Action Plan:**

- Fully transition to **paperless digital systems** (e.g., e-forms, tablets)
- Use **100% recycled paper only**, certified carbon-neutral

**Expected Reduction:** ~100% (~0.005 tons)

## **4. Carbon Offsetting Plan**

After maximised reductions (~61 tons), the residual 17–20 tons/year can be offset using:

- **Nature-based solutions:** Reforestation or blue carbon projects (e.g., seagrass)
- **Certified offset schemes:** One Tribe, Carbon Neutral Britain
- **Community carbon projects:** Support local or regional clean energy or conservation efforts



**Budget Estimate for Offsets:** ~£15–25/ton × 20 tons = **£300–£500 annually**

## Implementation Timeline

### Key Actions

Year	Key Actions
2025	Energy audit, renewable electricity switch, vehicle transition planning
2026	Solar installation, pilot EVs and electric dive boat, heating system upgrades
2027	Midpoint emissions review; expand EV fleet; implement route software
2028–2030	Full boat electrification; deep building retrofits
2031–2034	Residual emissions reduction and offsetting
2035	Achieve <b>Net Zero</b> certification

## Monitoring & Reporting

- **Annual carbon footprint audit** using ISO 14064 or GHG Protocol
- Publish transparent **sustainability report**
- Appoint **Sustainability Lead** or team to drive the program

## Key Benefits

- Lower operational costs (energy, fuel)
- Stronger environmental credentials for eco-conscious customers
- Compliance with future regulatory requirements
- Positive impact on marine ecosystems and climate action

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