**PBT Services Carbon Reduction Plan**

**Date Issued:** May 2025

**Plan Period:** 2025–2050

**1. Executive Summary**

PBT Services is committed to reducing its environmental impact by cutting carbon emissions across operations, with a focus on energy use and transportation. Our goal is to achieve a 50% reduction in greenhouse gas (GHG) emissions by 2030 and reach **net-zero emissions by 2050**. This plan outlines the strategies and actions we will take to achieve that.

**2. Baseline Emissions Footprint (2024)**

**Total GHG Emissions (CO₂e):** Approx. 120 tonnes/year
**Breakdown:**

* **Scope 1:** 90 tonnes CO₂e (vehicle fleet fuel use)
* **Scope 2:** 20 tonnes CO₂e (electricity use in office/workshop)
* **Scope 3:** 10 tonnes CO₂e (employee commuting, waste disposal, small procurement)

**3. Carbon Reduction Targets**

| **Year** | **Target Emissions Reduction** | **CO₂e Target (tonnes)** |
| --- | --- | --- |
| 2027 | 25% | 90 tonnes |
| 2030 | 50% | 60 tonnes |
| 2040 | 75% | 30 tonnes |
| 2050 | 100% (Net Zero) | 0 tonnes (with offsets) |

**4. Planned Reduction Measures**

**A. Vehicle Fleet (Scope 1)**

* **2025–2027:** Replace 5 diesel vans with electric vans (e.g., Nissan e-NV200 or Ford E-Transit).
* **2028–2030:** Replace 5 more vehicles; ensure EV infrastructure (charging stations) at HQ.
* **2030–2035:** Convert the remaining 5 vehicles to electric or alternative fuels.
* Implement **telematics** to track and reduce fuel usage through route optimization.

**B. Office and Workshop Energy Use (Scope 2)**

* Upgrade lighting to **LED** and install **motion sensors**.
* Switch to **100% renewable electricity provider** by 2026.
* Evaluate **solar panel installation** on facility roof by 2028.

**C. Employee Behavior and Commuting (Scope 3)**

* Promote **carpooling, public transit, or cycling**.
* Support **flexible work** for office staff to reduce travel.
* Implement **waste reduction policy** (e.g., digital-first documentation, e-waste recycling).

**D. Procurement**

* Partner with **eco-certified suppliers** for parts and materials.
* Reduce packaging and optimize inventory to lower delivery frequency.

**E. Offsets (Post-2035)**

* Begin purchasing certified carbon offsets for any remaining emissions (e.g., fleet or emergency generators).

**5. Monitoring & Reporting**

* Measure emissions annually using **GHG Protocol**.
* Track energy and fuel usage monthly.
* Annual review of fleet status, emissions, and energy data.
* Report progress publicly on company website and internal newsletters.

**6. Governance**

* Appoint a **Sustainability Champion** by mid-2025.
* Train fleet managers and electricians on eco-driving and energy-saving.
* Include sustainability metrics in performance reviews and supplier contracts.

**7. Communication**

* Quarterly internal updates.
* External sustainability updates in customer newsletters and website.
* Branded EVs to visibly communicate the company’s green commitment.

**8. Review and Update Cycle**

* Full plan review every 2 years.
* Adjust targets and strategies based on performance, technology changes, and regulation.