

PPN 06/21 – Carbon Reduction Plan

Supplier Name: **The Protector Group Ltd**

Publication Date: 30.01.23

Our commitment to Achieving Net Zero.

The Protector Group is committed to achieving Net Zero emissions by 2047. We firmly believe that, as a company, we can play our part in the global drive to limit global warming to 1.5°C. We will review our energy usage on a monthly basis and will be an early adopter of emerging technologies to reduce this usage.

Baseline Carbon Footprint Measurement.

In January 2022 The Protector Group recognized the need to formally measure its carbon footprint. The measures aim to capture our energy usage at our premises and in our operational undertakings. The year end emissions figure will be used as a baseline for improvement within the company and will act as a quantifiable target for reduction of energy usage. The baseline year is also the reporting year due to this being the first year of the plans creation.

Baseline Year: 2022	
Emission Types	Total Emissions* produced by the company and measured in tCO ₂ e
Scope 1	122.190 tCO ₂ e
Scope 2	24.426 tCO ₂ e
Scope 3	4. Upstream transportation and distribution – 0
	5. Waste generated in operations – 4649.697 tCO ₂ e
	6. Business Travel – 0.659 tCO ₂ e
	7. Employee commuting – 38.467 tCO ₂ e
	9. Downstream transportation and distribution – 606.170 tCO ₂ e
Total Emissions	5441.609 tCO ₂ e

(Notes on Calculations)*

Scope 1 and 2 – The Carbon Trust’s SME Carbon Calculator was used to obtain these figures. Gas meter readings were taken at each office for the time period and this figure was added to 15 % of fuel usage as explained in Scope 3-9. Below.

Scope 3-4. - Unaware of this reporting requirement when metrics were established. A reporting method for this element will be developed in 2023.

Scope 3-5. Total waste in tonnes multiplied by the conversion factor of 467.046 Kg CO₂ for General Waste and 21.294 for Mixed recycling waste (From ‘UK Government GHG Conversion Factors for Company Reporting’)

Scope 3-6. LNER’s website was consulted to obtain the Kg/Mile CO₂ figure for this element

Scope 3-7. – The WTW (CO₂ Kg/Km) figures for 10 cars were taken from the ‘Which?’ website. An average of the 10 cars was then taken and multiplied by the total travelling distance of all employees for the time period stated (working days).

Scope 3-9. – All company vehicles use fuel cards. Company vehicles are used by sales staff and installation engineers. The total fuel consumption was divided by a ratio of 15% to sales for Scope 1 and 85% to engineering for Scope 3-9.

Emissions Reduction Targets.

A target of 4% reduction year on year has been set to achieve Net Zero by 2047. With advancements in technology and the implementation of Carbon Reduction initiatives it is envisaged that this target will be exceeded and step changes will be achieved. The target will be reviewed annually and revised when step changes are achieved.

Completed Carbon Reduction Initiatives.

Company Vehicle Trackers were introduced in 2016 using the Big Change Vehicle Management Tool. This enables the company to track the location, mileage and speed of all company vehicles. This management tool ensures that when the control room receives an alarm activation, the closest vehicle to the signal is dispatched. The reporting tool is also used to ensure that speed limits are adhered to, thus preventing excessive fuel usage.

The Protector Group is a market leader in providing CCTV monitoring equipment that offers zero emissions whilst on site. In 2018 the company developed a system that utilized solar panels in our CCTV camera units. The solar panels are used to recharge Li-Ion battery packs within the units which removes the need for the diesel generators that were previously used to power the units.

In 2021 The Protector Group replaced all the existing fluorescent tube light fittings within it's offices with energy efficient LED panels. LED panels use approximately 30% less energy that the equivalent lumen rated fluorescent tube light fittings. On top of this energy saving, LED panels offer a longer lifespan (50,000 hours compared to 10,000 hours) over the fluorescent tube light fittings.

It is with some regret that a Carbon Footprint baseline figure had not been established prior to these initiatives as a substantial measured reduction could have been illustrated in this report.

Future Carbon Reduction Initiatives

Vehicle use accounts for 13% of the Protector Group's carbon emissions. The Protector Group trialed an electric vehicle in March 2022 for use in conjunction with site installations. Whilst the unladen range of the vehicle was acceptable, once the vehicle was laden with tools/ equipment and a trailer was attached, the range drastically reduced to a level that made the vehicle unfeasible for use. The Protector Group will continue to monitor advances in EV technology and in particular increases in vehicle range. Hybrid fuel vehicles will also be considered as a method to reduce fuel usage.

Vehicle users will be given refresher training to promote fuel efficient driving methods. This will include but not be limited to;

- Checking tyre pressures are correct
- Practicing anticipation while driving
- Smooth acceleration and deceleration
- Removing excess weight from the vehicle
- The use of cruise control to maintain constant speeds
- Avoiding unnecessary idling
- Don't coast – leave the vehicle in gear when decelerating

Raising awareness with employees regarding energy usage is essential to ensure engagement in our efforts to achieve the Carbon Reduction target. The Protector Group will utilize company newsletters, notice boards and group presentations to promote a 'Switch if Off' campaign covering such topics as;

- Setting radiator thermostats to a minimum
- Turning lights off when rooms are unoccupied
- Installation and monitoring of smart meters
- Feasibility study for the installation of solar panels on owned buildings

Declaration and Sign Off

This Carbon Reduction Plan has been completed in accordance with PPN06/21 along with associated guidance and reporting standards for Carbon Reduction Plans.

Emissions have been reported and recorded in accordance with the published reporting standard for Carbon Reduction Plans and the Green House Gas Reporting Protocol corporate standard and uses the appropriate Government emission conversion factors for greenhouse gas company reporting.

Scope 1 and 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.

Signed on behalf of the Supplier:

Name: Ken Slater

Position: CEO

Signature: 

Date: 30.01.2023