



Synergy Guards UK: Carbon Reduction Plan

Overview

This plan outlines the company's commitment to reducing greenhouse gas (GHG) emissions and achieving sustainable operations. Using 2018 as the base year, emissions are classified into three scopes as per the GHG Protocol. The plan also includes interim targets, actionable strategies, and long-term sustainability goals.

Base Year: 2018

The carbon footprint for **Synergy Guards UK** has been calculated based on operations in 2018. The primary emission sources are vehicles, office energy consumption, and waste.

2018 Baseline Emissions by Scope

- **Scope 1 (Direct Emissions):**
 - **Vehicles:** Two petrol vehicles used for patrols and operations, with a combined mileage of 25,000 miles/year.
 - Emissions: **6,500 kg CO₂**.
 - **Heating System:** Gas-powered heating system in the office (12,000 kWh/year).
 - Emissions: **2,400 kg CO₂**.
 - **Total Scope 1: 8,900 kg CO₂**.
- **Scope 2 (Indirect Emissions):**
 - **Electricity:** Office lighting, computers, and security system equipment (6,500 kWh/year).
 - Emissions: **1,800 kg CO₂**.
 - **Total Scope 2: 1,800 kg CO₂**.
- **Scope 3 (Other Indirect Emissions):**
 - **Employee Commuting:** Staff commuting to and from the office (estimated).
 - Emissions: **300 kg CO₂**.
 - **Office Waste:** General office waste and paper usage.
 - Emissions: **200 kg CO₂**.
 - **Total Scope 3: 500 kg CO₂**.

Total 2018 Emissions: 11,200 kg CO₂.

Synergy Guards UK

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Emissions Reduction Target

Goal: Reduce total carbon emissions by **30% by 2028** from the 2018 baseline.

- **Target Reduction: 3,360 kg CO₂.**
- **New Emissions Target for 2028: 7,840 kg CO₂.**

Planned Reduction Strategies

Scope 1: Direct Emissions

- 1. Transition to Electric Vehicles:**
 - Replace two diesel/petrol vehicles with electric vehicles (EVs) by 2025.
 - Estimated reduction: **4,000 kg CO₂/year.**
- 2. Upgrade Heating System:**
 - Switch to an energy-efficient heat pump system by 2024.
 - Estimated reduction: **1,500 kg CO₂/year.**

Scope 2: Indirect Emissions

- 1. Switch to Renewable Electricity:**
 - Source electricity exclusively from renewable suppliers starting in 2024.
 - Estimated reduction: **1,500 kg CO₂/year.**
- 2. Improve Energy Efficiency:**
 - Install LED lighting and implement energy-saving measures (e.g., smart thermostats, automatic power shutdown for unused equipment).
 - Estimated reduction: **300 kg CO₂/year.**

Scope 3: Other Indirect Emissions

- 1. Improve Waste Management:**
 - Introduce an office-wide recycling system for paper, plastics, and electronics.
 - Estimated reduction: **100 kg CO₂/year.**
- 2. Go Paperless:**
 - Digitize documents and workflows to eliminate unnecessary paper usage.
 - Estimated reduction: **100 kg CO₂/year.**

Projected Emissions by 2028

Emission Scope	2018 Baseline (kg CO ₂)	Reduction (kg CO ₂)	2028 Target (kg CO ₂)
Scope 1 (Vehicles, Heating)	8,900	5,500	3,400
Scope 2 (Electricity)	1,800	1,500	300
Scope 3 (Waste, Commuting)	500	200	300
Total	11,200	7,200	4,000

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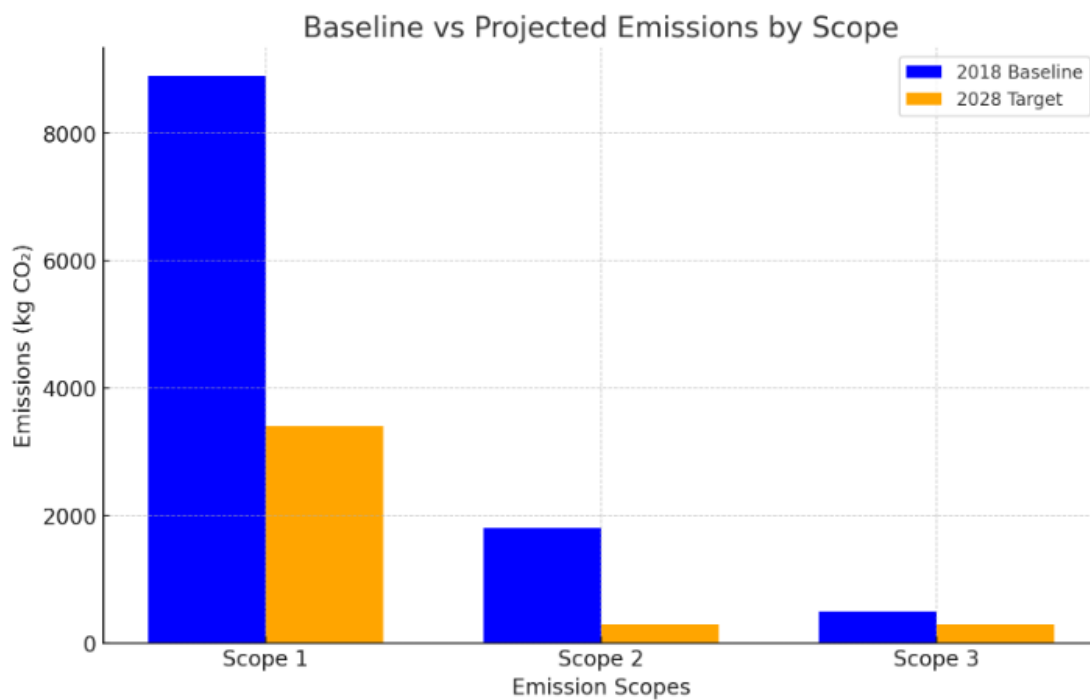
Reduction Progress Timeline (2023–2028)

Year	Key Actions	Projected Emissions (kg CO ₂)
2023	Start implementing recycling and energy measures	9,800
2024	Switch to renewable electricity	8,300
2025	Replace vehicles with electric vehicles	5,300
2028	Complete upgrades to heating and efficiency	4,000

Graphs and Charts

To make this actionable, let's visualize:

- Baseline Emissions by Scope (2018):** A pie chart of emissions from Scope 1, Scope 2, and Scope 3.
- Baseline vs 2028 Projected Emissions by Scope:** A bar chart comparing emissions in 2018 vs. 2028.
- Emissions Reduction Progress Over Time:** A line graph of emissions reductions year-by-year.



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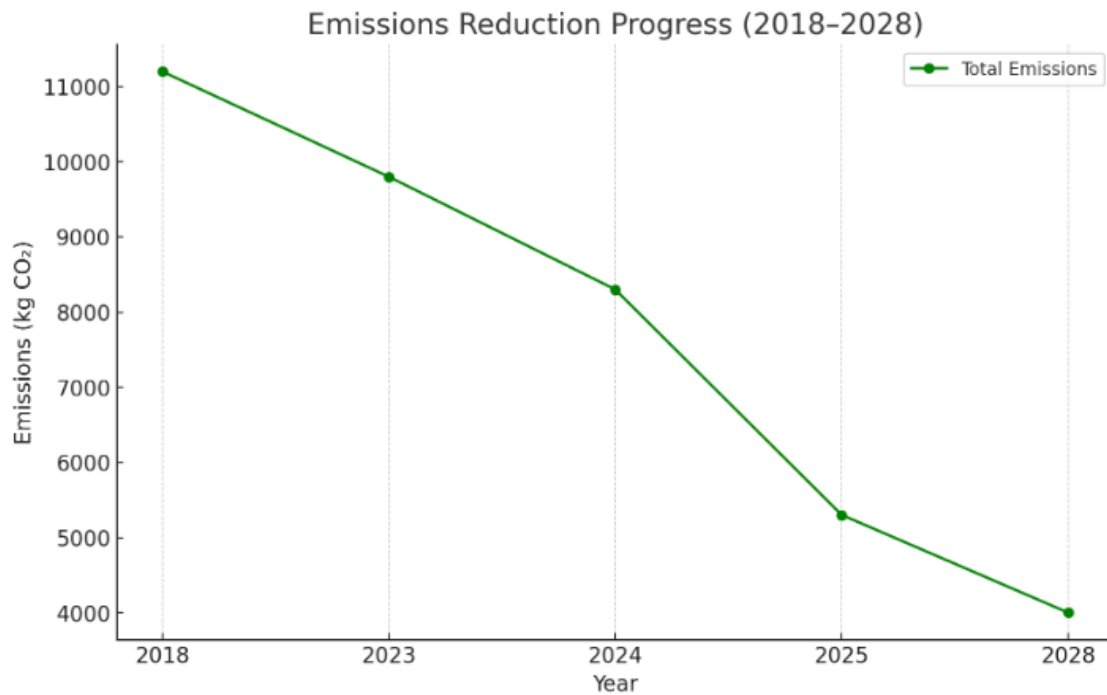
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Here are the tailored graphs for Synergy Guards UK:

1. **Baseline Emissions by Scope (2018):** A pie chart showing that Scope 1 (vehicles and heating) contributes the most emissions, followed by Scope 2 (electricity) and Scope 3 (waste and commuting).
2. **Baseline vs Projected Emissions by Scope:** A bar chart comparing 2018 baseline emissions with the 2028 target emissions, showing significant reductions in all scopes, especially Scope 1 and Scope 2.
3. **Emissions Reduction Progress (2018–2028):** A line graph showing the overall reduction in total emissions year by year, demonstrating steady progress toward the 2028 target.

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