

Our Journey Towards Net Zero



March 2024



Falcon Foodservice Equipment

Falcon HQ, Stirling, Central Scotland



Falcon Net Zero Commitment Statement



"Falcon Foodservice Equipment is committed to achieving Net Zero by 2045 for emissions Scopes 1, 2 and 3"

A handwritten signature in black ink, appearing to read 'Peter McAllister', written in a cursive style.

Peter McAllister
Managing Director
February 2024



Our Environmental Journey So Far...





Reduce



Reuse



Recycle

Monitoring of Utilities and Waste

Utilities

Already report under Streamlined Energy and Carbon Reporting

Energy & Environment KPI's

Reviewed Monthly in Management Pack

Discussed at Quarterly Environmental and Energy Review

Waste

Main waste streams transfer is managed on site by Hamilton Waste & Recycling -Scotland's first carbon neutral company

- General Waste
- Dry Mixed Re-cycling
- Wood & Food
- Scrap Metal
- WEEE



- Zero waste to landfill
- On-site waste segregation
- Recycling of all waste
- Packaging reports are submitted via VALPAK
- Waste & Packaging reduction plans in place





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 **mcdowell**
intelligent logistics



Energy saving initiatives prior to Net Zero journey

PIR sensors installed

LED lights at 97% replaced (50k hour lifetime & 60% energy reduction)

Pipe lagging on all pipes

Lighting on timers

Logistics partner McDowells Haulage initiatives:

- Trailers left on site to fill before transport minimizing pick ups and maximizing efficiency
- Part of TPN (The Pallet Network) that ensures no empty running during deliveries





Solar PV Study

Prior to our Net Zero analysis we commissioned a Solar PV feasibility study by EMTEC

A system of 850 Solar PV modules with four inverters was proposed

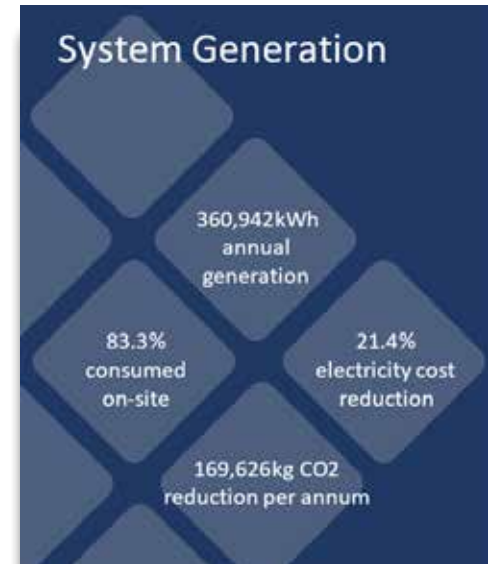
Estimated yield of **360,942 kWh** per annum

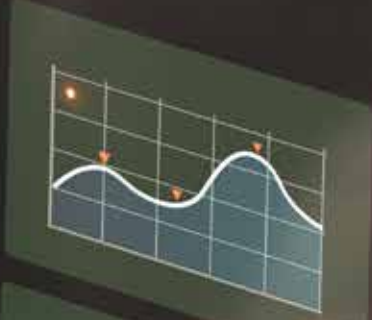
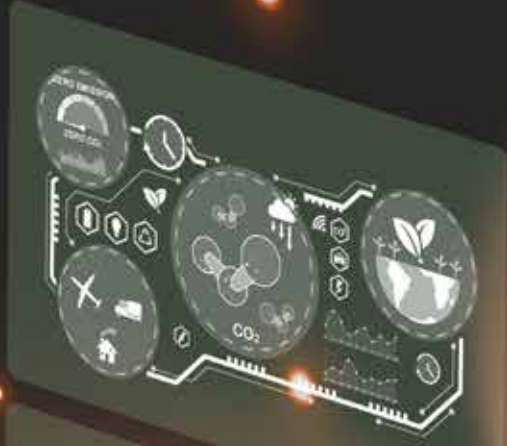
Reducing electrical consumption by **21.4%** (would be 27% for 2022/23 consumption)

169.6 tCO₂ reduction per year

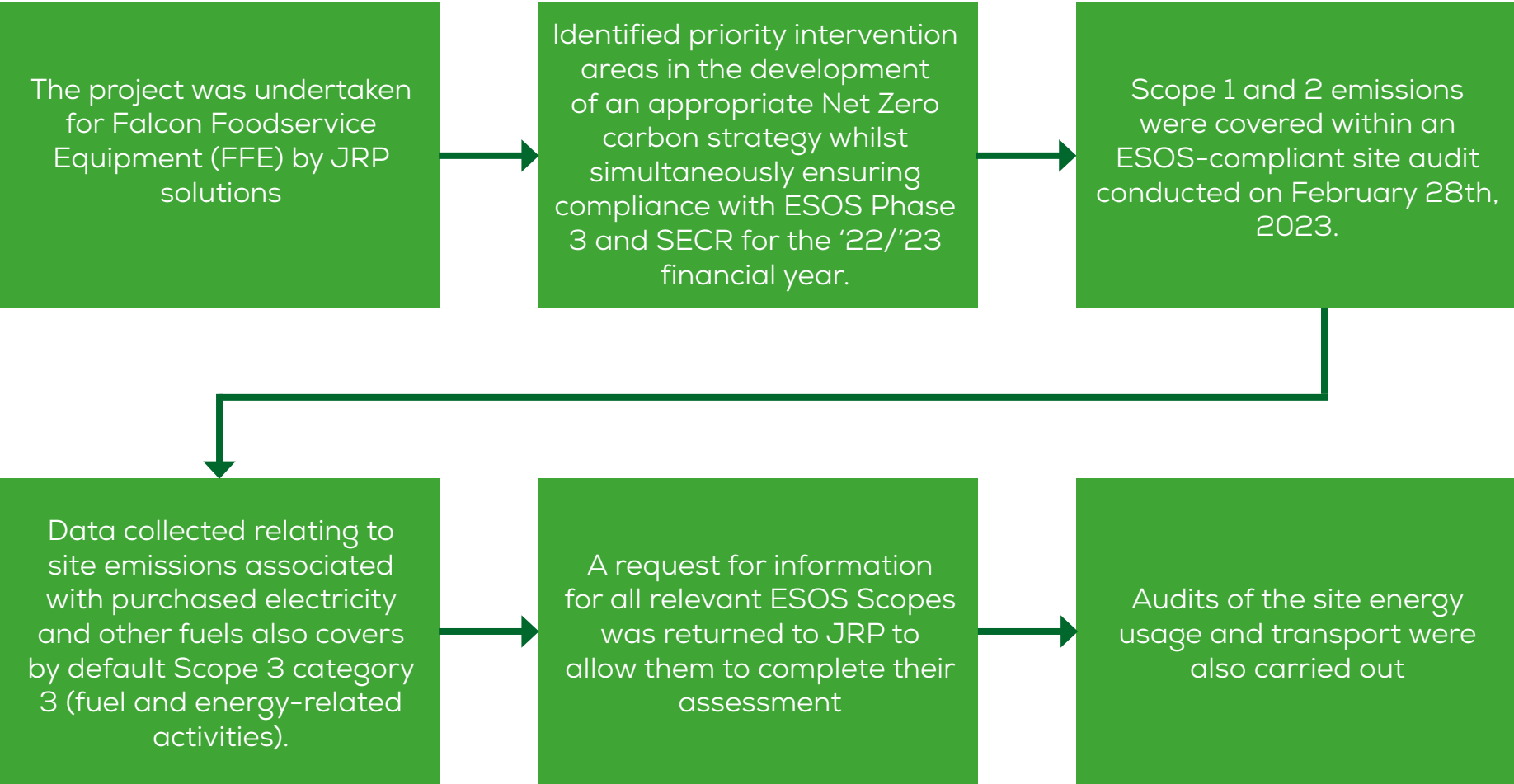
25-year projection of: **8,320,320 kWh** saving

** Dependent on the feasibility of implementing Solar PV*





ESOS Scope 3 and Net Zero Gap Analysis





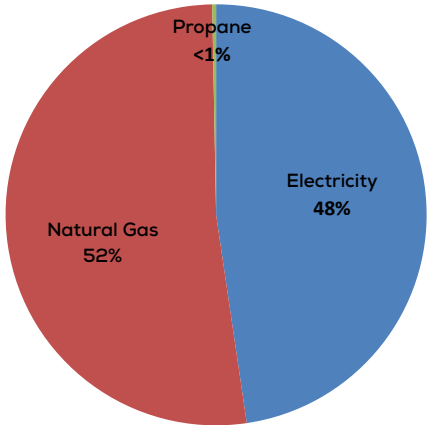
ESOS Scope 3 and Net Zero Gap Analysis

The total carbon footprint (Scope 1,2,3) including site energy and upstream/downstream calculations was **3,205 tCO₂e**

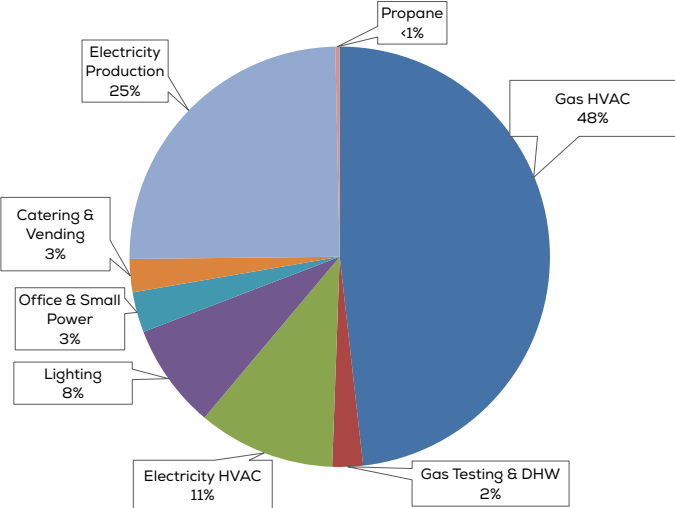
Category	Annual tCO ₂ e	Comments
Purchased goods and services	2,606	Scope 3, category 1, relates to the top suppliers which should account for 80%+ of supply chain emissions.
Site energy	531	Excludes F-gases (not material)
Annual road haulage	50	Primarily diesel (scope 3, category 4)
Air travel	18	Scope 3, category 6
Total	3,205	

- The bulk of site energy consumption (60%) is associated with heating, ventilation and air conditioning (HVAC), with a further 8% for lighting, and 24% is associated with manufacturing activities.
- The sites total annual emissions arising from this consumption are 530.5 tCO₂e, of which gas (scope 1) is 52%, electricity (scope 2) 47.7% and propane (scope 1) 0.3%.

kWh Energy Balance



Site Carbon Balance



With our headquarters located in Stirling, at the foot of the Ochil Hills in the shadows of the Wallace Monument we understand more than most how important our environment is.



Identified Savings Opportunities

The impact of identified opportunities and the Solar PV could reduce our on-site carbon footprint by up to 261 tCO₂e (49% reduction).

Recommendation	Electricity		Gas		Total tCO ₂ e Saving	% tCO ₂ e Saving
	Saving (kWh)	tCO ₂ e Saving	Saving (kWh)	tCO ₂ e Saving		
Solar PV Reduction*	360942	169	0	0	169	31.8%
Energy Management / Awareness	26915	5.2	29376	5.4	10.6	2.0%
Lighting & PIR Improvement	13619	2.6	0	0	2.6	0.5%
BEMS	7145	1.4	282130	51.5	52.9	10.0%
Destratification	-1187	-0.2	66566	12.2	12	2.3%
Control of Motors	41559	8	0	0	8	1.5%
Building Fabric Improvements	0	0	34028	6.2	6.2	1.2%
Totals	448993	186	412100	75.3	261.3	49.2%

* Dependent on the feasibility of implementing Solar PV



Further Carbon Reducing Opportunities

Development of energy saving products for our customers to reduce our “Downstream” carbon footprint

- Hydrogen products projects ongoing
- Efficient electrical products (Induction/Heat Zones)
- Innovative food waste reduction products

Energy utilisation initiatives

- Lighting surveys to assess where lighting can be reduced
- PIR adjustment to allow the benefit of natural light in certain areas
- Setting emergency lighting to “non-maintained”
- Switching off equipment when not in use
- Energy efficient machinery & equipment

On site green hydrogen production

Engagement with suppliers to reduce their carbon footprint by reducing our “Upstream” carbon footprint



Flexibility is one of our greatest strengths. Our modern factory and experienced, highly-skilled workforce enable us to react quickly to changing market needs by reallocating tasks and priorities as and when required.

We've invested in state-of-the-art equipment to ensure we can manufacture products more rapidly and efficiently, while maintaining the highest quality controls.

Installed March 2024

The Journey Never Stops

New energy efficient Salvagnini L5 3KW Laser being installed March 2024 replacing a less efficient model.

This offers the following energy savings:

- Power Reduction during cutting **88.5%**
- Power reduction during standby **93.1%**
- Estimated annual reduction in electricity **220,000kWh***
- Annual reduction in site electricity **16.3%***

Additionally, the new machine doesn't use nitrogen gas, saving 8,000,000m³ per year

** Based on 50% stand-by time during production hours*



Renewables

Part of Falcon's Net Zero Journey is to procure renewable energy for use on-site

This may be assisted in the future by the Solar PV installation, should this be adopted

Falcon is part of the AFE Group who procures their gas and electricity as a group

In September 2023, the AFE Group procured 100% renewable electrical energy from their supplier

This has been purchased and is supported Renewable Energy Guarantee of Origin (REGO certificate)

This means that we can reduce our site carbon footprint by an estimated 260.2 tCO₂e - an estimated 49% reduction on the site's 2023 emissions

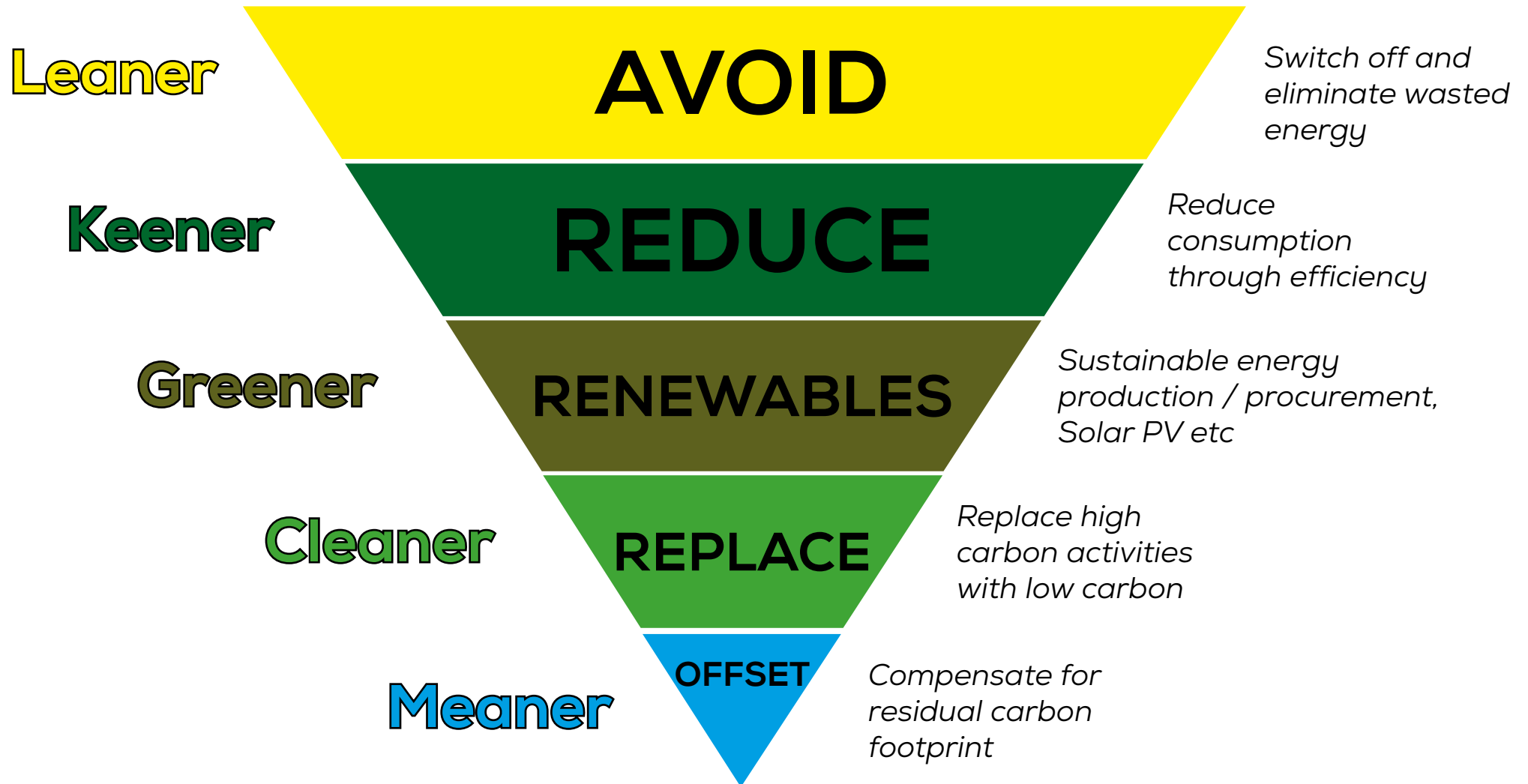




**NET
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Our Net Zero Hierarchy Model





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CO₂

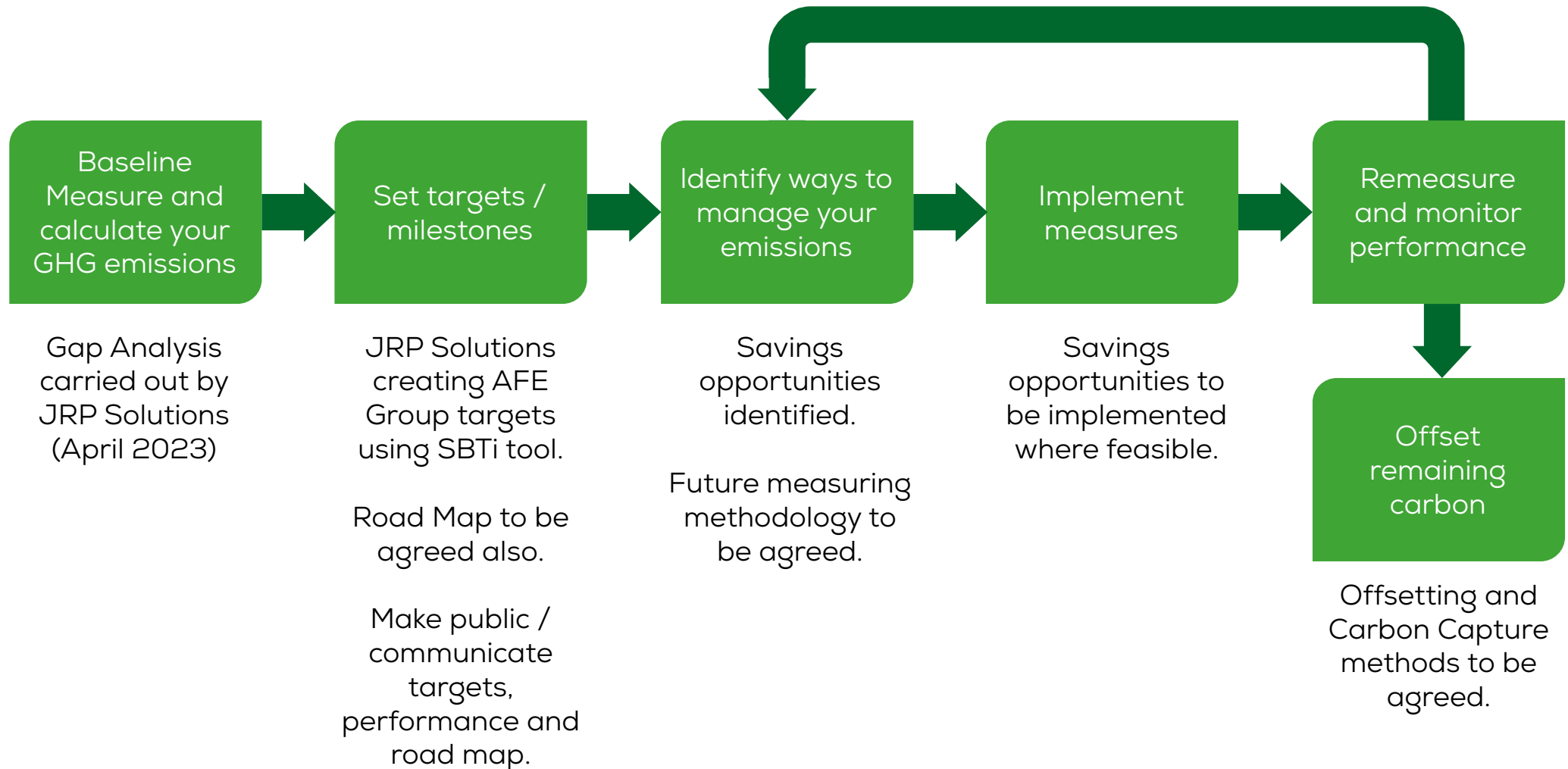
CO₂

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Our Net Zero Journey Plan





Falcon Foodservice Equipment

Wallace View, Hillfoots Road, Stirling,
FK9 5PY, Scotland, UK

t: +44 (0) 1786 455 200

e: info@falconfoodservice.com

www.FalconFoodservice.com



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