

AURELIA® GLOVES

A SUPERMAX HEALTHCARE BRAND

Environmental planning – A Call to Action

Climate Crisis – A Call to Action

Climate Crisis

Science has shown the potential for huge detrimental impact to the Environment, unless urgent action is taken to mitigate this. Supermax, like many businesses has a duty to mitigate its business operations to contribute in the response to this crisis.

More intense storms and floods, more frequent extreme heatwaves and the spread of infectious disease from climate change threaten to undermine health and safety of the human race. Action on climate change will affect this, and it will also bring direct improvements for public health and health equity.

The NHS estimate that “reaching our country’s ambitions under the Paris Climate Change Agreement could see over 5,700 lives saved every year from improved air quality, 38,000 lives saved every year from a more physically active population and over 100,000 lives saved every year from healthier diets.” This will have a direct impact on lives.

The impact on human health will be considerable if action is not taken. Examples being the change in weather causing higher energy use to heat or cool houses, with poorer families most impacted. The health impact of energy poverty on those people is significant.

Black, Asian and minority ethnic groups are disproportionately effected by Air Pollution, and Women and Children are most at risk of developing health conditions as a result of Air Pollution.



Environmental Plan – Building blocks

ISO 14001

Build Business
Environmental Management
System

Net Zero

Reduce reliance on
Carbon, and off set
the rest

17 UN Goals

Implement, report
and maintain



Environmental Plan – Building blocks

DATA

DATA is critical to change

Buy In

The whole business needs
buy in and accountability

Training

Training and Awareness of all
staff is critical

Supply Chain

The whole supply chain is
under our Influence and needs
to buy in

Operations

Our Business Operations and
Offices will drive change within
our business

Regulatory

Improve awareness and
compliance

Climate Crisis – Plan




Roadmap to ISO 14001 - 2023

Q1	Q2	Q3	Q4	
<div>Build Knowledge Training Study the ISO standard</div> <div>Risk Assessment Pestle Aspects</div> <div>Scope SECR requirements</div>	Obtain Management Support	Create Env MS	ISO Standard	
	Identify Legal Requirements	Regulatory Improvement Plan		
	Obtain Business Buy in			
	Use ISO standard to define EMS Scope			
	Plans for new site	Policies		
	ISO 14001 : Scoping visit to China	Procedures		
	UN 17 Goals Plan			
	Net Zero : Training	UN 17 Goals Annual Report		
	Net Zero : Scoping visit to China	Net Zero Plan		
	SECR Compliance			
		Internal Training		
		New Starter integration	Choose Certification body External Audit Plan for Stage 1 and 2	

Roadmap to ISO 14001 - 2024

Q1	Q2	Q3	Q4
Gap Analysis Audit	Stage 1 Audit	Stage 2 Audit	
Operate EMS, keep records			
Environmental Audits – Build Internal Auditing System			
CAPA System in full operation			
Regulatory Improvement Plan			
Environmental Audits – Build Internal Auditing System			
Net Zero Implementation phase			
Internal Training			

Roadmap to Net Zero - 2023

Q1	Q2	Q3	Q4
	Net Zero Plan, engage and roll out, Scope 1,2,3		
	Build individuals Knowledge Training and awareness		
	Obtain Management Support	Obtain Business Buy in	
	Plans for new site		Implement New Site Action Plan
Roll out of Electric Cars	Publish Annual Carbon Reduction Plan, Tier 1,2  Carbon Reduction Plan Carbon "Roadmap"/ Life Cycle Assessments	Explore Renewable Energy via Solar / Wind / Energy Company	
IT Support - Net Zero Plan		Assess WFH / Hybrid Working Options	Encourage Staff to reduce household carbon - LED / Renewable Energy supply / Low Energy Supply / Insulation / Less meat / sustainable clothing etc
		Internal Training	
		UN 17 Goals Plan	
		UN 17 Goals Annual Report	Business Net Zero : Training
	Scope 3 : Suppliers Scoping visit to China		

Roadmap to Net Zero - 2024

Q1	Q2	Q3	Q4
	Publish Annual Carbon Reduction Plan Tier 1,2	Net Zero / UN 17 Implementation phase	
		Implement New Site Action Plan	
LED lighting		“Lean” Operations Plan – 6 Sigma reduction of “Wastes” to improve efficiency	
	Carbon Reduction Plan	Corrective Action	
Disposal of Gloves		Water Saving Analysis	
		Scope 3 : Suppliers Operations and Manufacturing Efficiency improvements	
Individual Product Road mapping and actions			
Green Car Salary Sacrifice	Incentive schemes		
Cycle to work Schemes			
Reduce air travel or base decision on green rating rather than cheapest			
	Carbon Offset plan – eg Tree planting		

Roadmap to Net Zero - 2025

Q1	Q2	Q3	Q4
Net Zero / UN 17 Implementation phase			
Take Stock : Measure where we are and plan next improvement steps			
“Lean” Operations Plan – 6 Sigma reduction of “Wastes” to improve efficiency			
Scope 3 : Suppliers Operations and Manufacturing Efficiency improvements			
			Can we influence our Customers? – Net Zero for customers

Roadmap to Net Zero – 2026 - 2030

2026	2027	2028	2029	2030
Net Zero / UN 17 Implementation phase				
	<div>Public report of targets, emissions Publish Carbon Reduction Plan Tier 1,2,3</div> <div>Data Collection</div> <div>Assess progress & next steps</div> <div>Report</div>	<div>Carbon Foot print for individual products</div>		<div>Only suppliers demonstrating improvements will be added to frameworks</div>
Scope 3 : Suppliers Operations and Manufacturing Efficiency improvements				

Climate Crisis – Net Zero



Net Zero

Net Zero is defined as setting targets and implementing changes to ensure that the business carbon impact is reduced to a net zero level.

Business sustainability is a critical part of our future, as we look to improve our carbon impact. This will also be critical to many of our key customers such as the NHS.

The government has set a legal framework to this to encourage change, in conjunction with other legislation such as the 2008 Climate Change Act, and implement the Paris Climate Change Agreement.

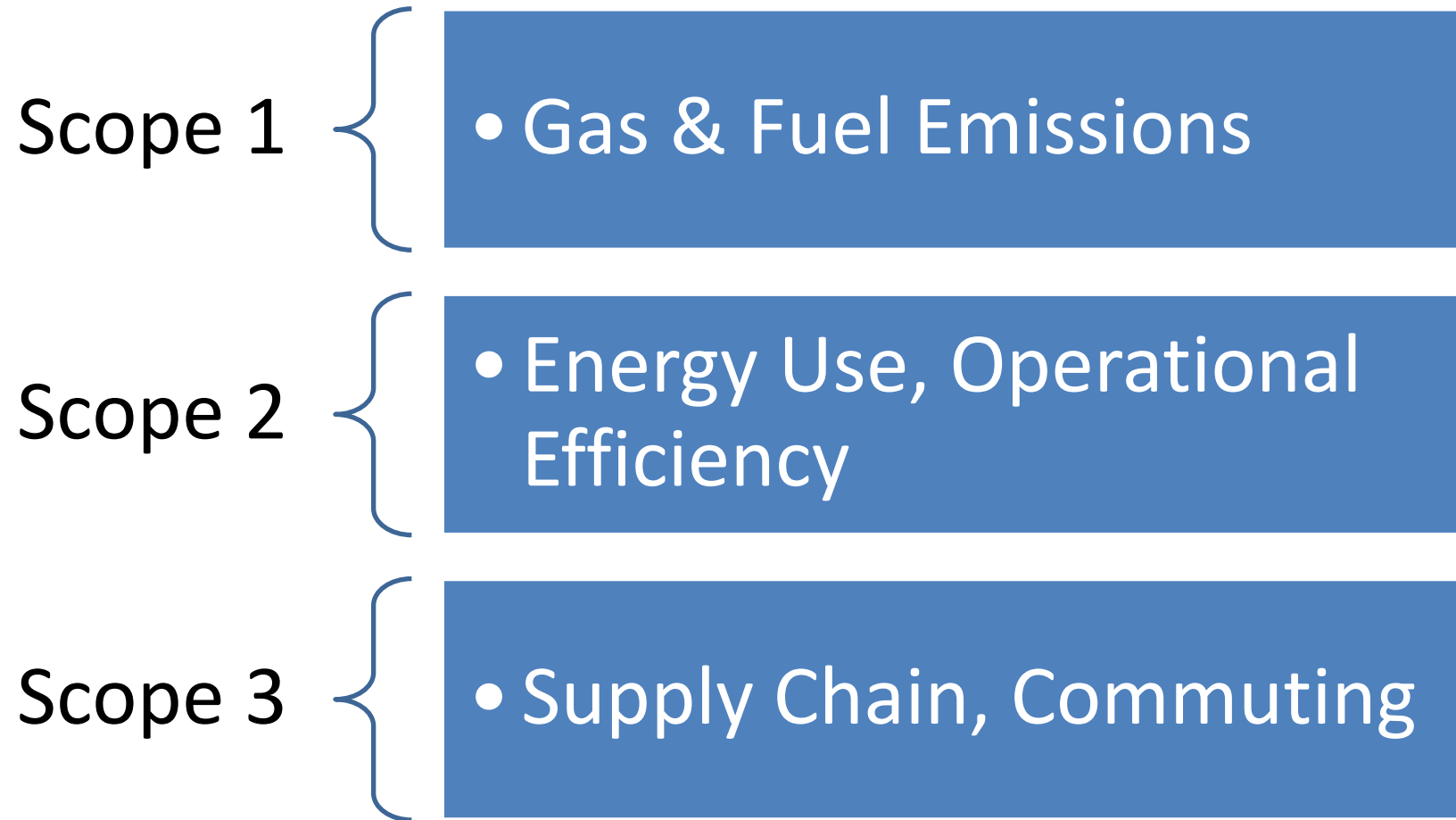
Negative Emissions

This is the process of removal of carbon from the atmosphere. In addition to natural solutions, there are significant innovations that are currently being developed.

These take two main forms: engineered solutions, such as direct-air capture (DAC) and bioenergy with carbon capture and storage (BECCS); and natural climate solutions, such as reforestation or Algae “Liquid Trees”.



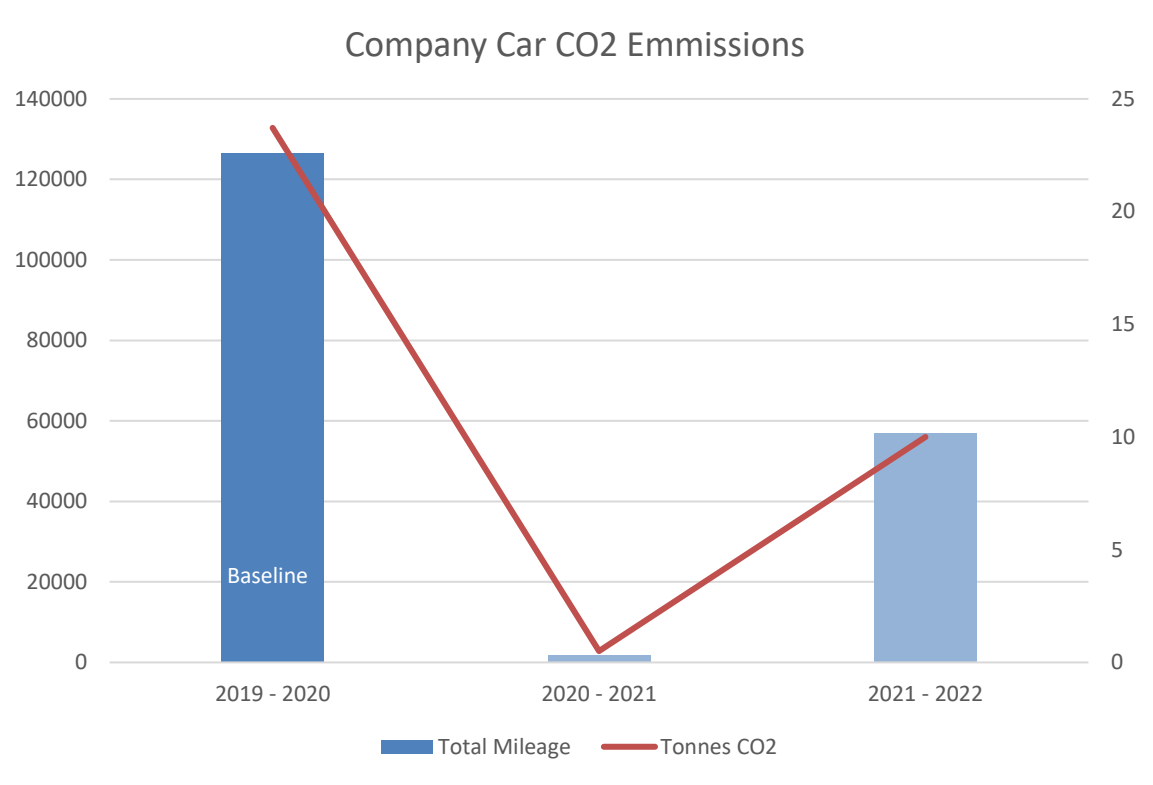
Net Zero – Scopes under investigation



A person wearing a white lab coat and teal gloves is holding two test tubes. One test tube contains a purple liquid. The background is a soft-focus white.

Climate Crisis – Net Zero Data and Improvement

Scope 1. Fuel



Baseline CO2

The business has decided to focus on year 2019 – 2020 as a baseline for the CO2 emissions, due to Covid, which effectively stopped the business from operating the Sales Department, who operate Company Cars. The Chart demonstrates the baseline CO2 emissions of 23.72 Tonnes of CO2 per year.

KPI & Measures

The business will measure CO2 emissions as part of an on-going KPI, but will also monitor the CO2 emissions per Company Car. This will give a measure that will allow for growth within the business, which will add perspective to the overall CO2 value.



Scope 1. Fuel – Improvement Plan

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Move to Electric Cars

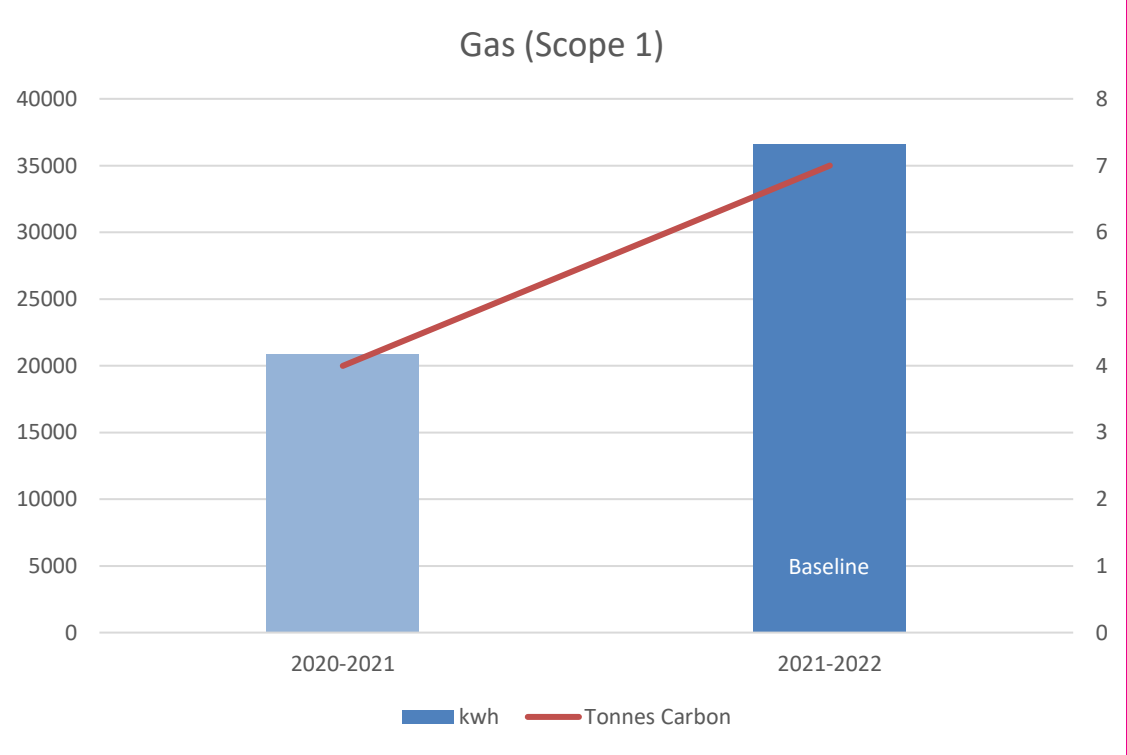
There is a huge reliance on cars in today's society, which has had a huge impact on the climate crisis we now face. At Supermax Healthcare we have recognised this as a key area in our plan to decarbonise our business.

The business has undertaken to replace all company cars with Electric or Hybrid alternatives by 2023, and has provided infrastructure such as charging points to accommodate this.

This will result in a significant reduction of the amount of fuel used and the amount of emissions caused, but is expected to potentially increase electricity use if additional charging stations are required.



Scope 1. Gas



Baseline CO2

The business has decided to focus on year 2021-2022, as this is a reflection of a full year with staff working in the offices of the site in Peterborough. The year previous had been reduced due to staff working from home at times during the COVID-19 outbreak, which significantly reduced the office spaces needing Gas supply.

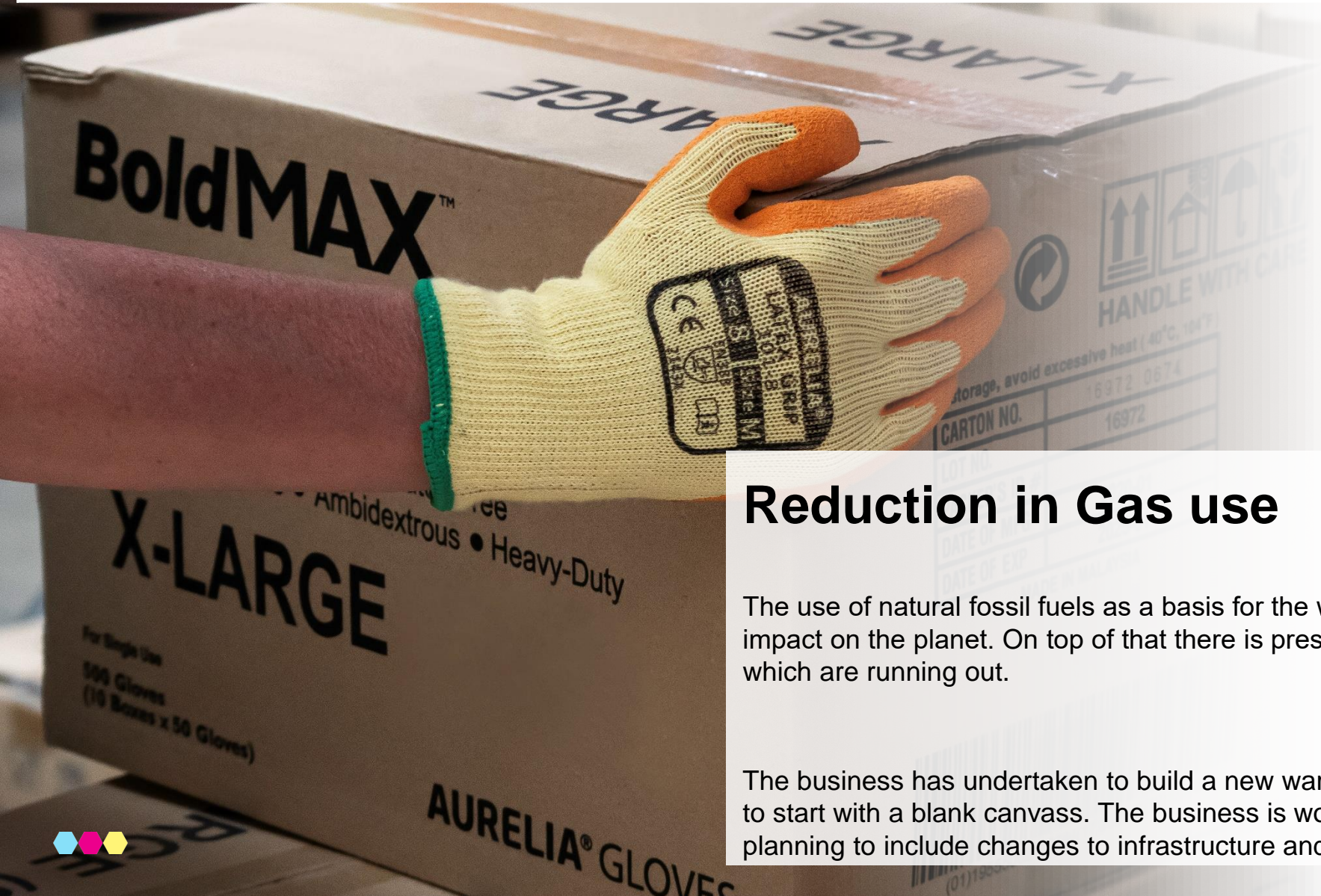
2021 - 2022

Gas use 36,657 kwh

7 Tonnes Carbon



Scope 1. Gas – Improvement Plan



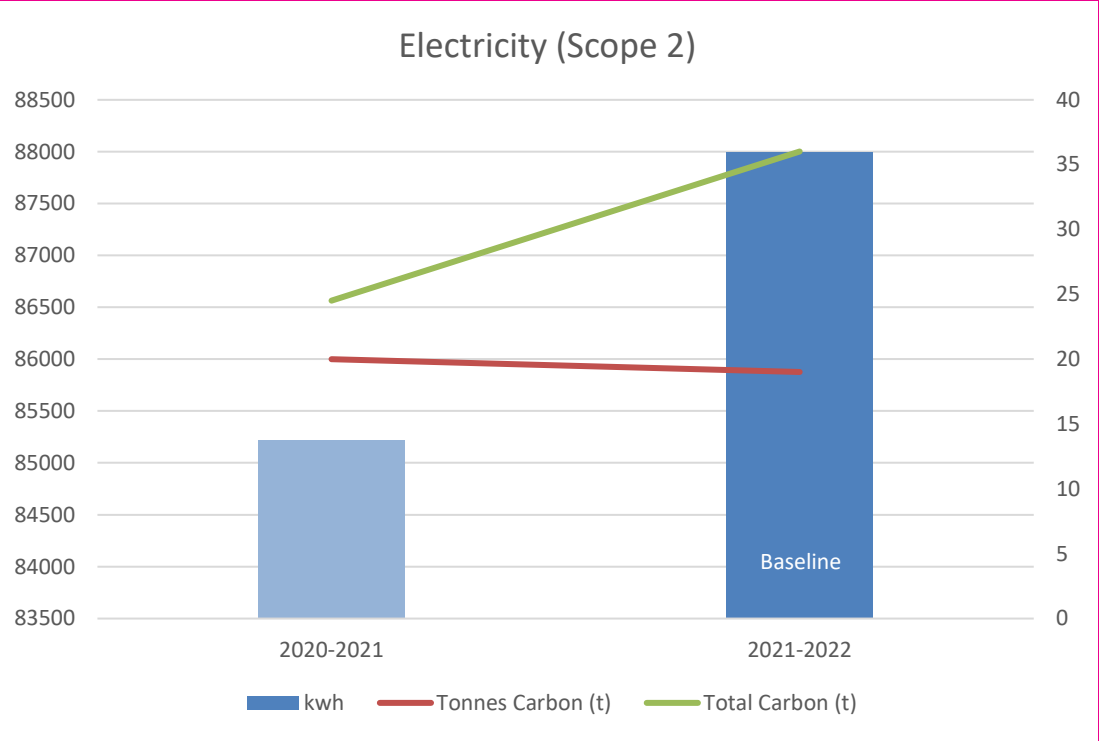
Reduction in Gas use

The use of natural fossil fuels as a basis for the world's energy use has led to a significant impact on the planet. On top of that there is pressure on the world's resources such as Gas, which are running out.

The business has undertaken to build a new warehouse in Peterborough, which will allow us to start with a blank canvas. The business is working on plans for that facility, and are planning to include changes to infrastructure and working practices to reduce impact.



Scope 2. Energy Use



Baseline CO2

The business has decided year 2021-2022 is the best reflection of the baseline CO2 use, as this is a reflection of a full year with staff working in the offices of the site in Peterborough. In the year previous to that the electricity use had been reduced due to staff working from home at times during the COVID-19 outbreak, which significantly reduced the office spaces needing Electricity supply for lights, computer use and heating / cooling systems.

Electricity use 87993 kwh

Carbon (t) 19.0

Total Carbon (t) 36.0



Scope 2. Energy Use – Improvement Plan

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Reduction in Electricity impact

Natural fossil fuels have been depended on for the world's energy use for a number of years, and has lead to a significant impact on the planet.

The business has undertaken to measure energy use and look towards reducing that or planning to switch to renewable sources. The business is building a new warehouse, and have undertaken to build improvements into the design.

Potential projects such as LED lighting, more efficient working practices, and monitoring energy out of hours are under consideration, with a “nothing off the table” mentality.



Climate Crisis – Planning



Net Zero – Scope 3 - Life Cycle Analysis

Life Cycle Analysis

ISO 14001 and NET ZERO will require Life cycle Analysis of our products and our business. In order to achieve reductions in our carbon footprint, it is essential that first the Life Cycle Analysis is performed.

ISO 14040 : 2006 is the ISO standard for the Life Cycle Analysis, and should be followed in order to ensure that we comply with ISO 14001.

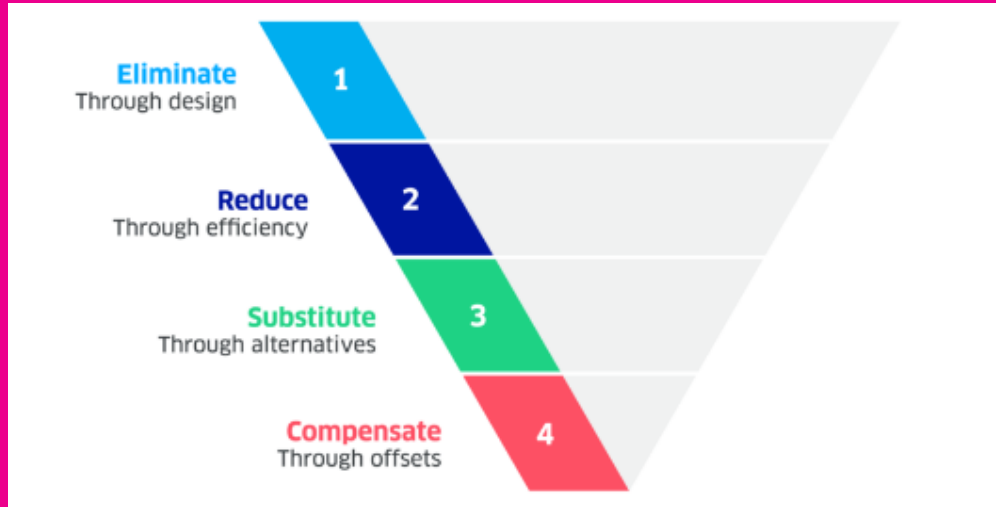
LCA is used for assessing environmental impacts associated with all the stages of the life cycle of Our Gloves / business services. For instance, in the case of a manufactured product, environmental impacts are assessed from raw material extraction and processing (cradle), through the product's manufacture, distribution and use, to the recycling or final disposal of the product (grave).

An LCA study involves a thorough inventory of the energy and materials that are required across the industry value chain of the product, process or service, and calculates the corresponding emissions to the environment. LCA assesses cumulative potential environmental impacts.

The aim is to document and then find improvements to the overall environmental profile of the product / business.



Possible steps towards decarbonisation

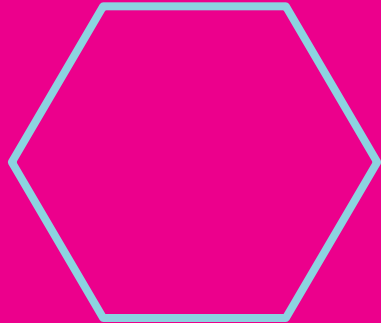


Hierarchy of Control

Across the business, which is directly under our control, and supply chain, which is under our influence, the Hierarchy of Control should be used.

- Our Operations
- Our Supply Chain
- Our transport and Travel
- Our innovation
- Our buildings and facilities
- Our heating, lighting and water use





Building Capability in all our staff

Environmental sustainability is the concern of everyone, and as such everyone needs to play their part. In order to do this, it is critical that our staff have a level of awareness that they are able to use to contribute towards reduction of our impact on the environment. We have to start with our motivation for change.

- Modified Induction program
- On-going training program
- External training program

Data and monitoring

Environmental sustainability will require effective data analysis and monitoring to allow the business to make effective decisions.

1. Measurement of previous years baseline results. Note that Covid-19 will have had an impact on energy use on site.
2. Projection of future results
3. Evaluation of impact of proposed changes
4. Measure and maintain a system of monitoring





Climate Crisis – Individual Responsibility

Encourage Individuals – 12 Tonnes of CO2 per person per year

We have examined what we can do as a business, but what can we do as individuals?
How can the business influence that?

- Energy
 - Switch to LED lighting
 - Change to Renewable Energy Supplier
 - Choose Low Energy appliances when you need to replace
- Heating
 - Turn heating down by 1°C
 - Smart Controls
 - Age of Boiler
 - Insulation of your house
- Transport
 - Take alternative methods of transport to Air travel
 - Use your car less using public transport
 - Electric Cars
- Stuff
 - Buy less stuff
 - Recycle
 - Plant based diet, or reduce meat intake



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Thank You



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Supermax Healthcare UK & Europe



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